



## **Remedial Investigation Workplan**

**For:**

**Block 417 New Rochelle Site  
NYS BCP Site No. C360216  
327-329 Huguenot Street  
New Rochelle, Westchester County, New York**

**Prepared for:**

**RFMCH Huguenot Property Owner II LLC and RFMCH Huguenot Development  
Partners II LLC  
7 Renaissance Square, 4<sup>th</sup> Floor  
White Plains, NY, 10601**

**Prepared by:**

**SESI CONSULTING ENGINEERS, D.P.C.  
12A Maple Avenue  
Pine Brook, NJ 07058**

**FEBRUARY 2021  
REVISED JULY 2021**



# Table of Contents

1.0 INTRODUCTION.....	1
2.0 PROJECT BACKGROUND.....	1
2.1 Site Description .....	1
2.2 Site History .....	2
2.3 Previous Environmental Investigations.....	2
2.3.1 Nelson, Pope & Voorhis, LLC Phase I Environmental Assessment (April 2017).....	3
2.3.2 Nelson, Pope & Voorhis, LLC Phase II ESA (June 2017) .....	4
2.3.3 Summary Memorandum of Environmental Sampling at 329 and 339 Huguenot Street, prepared by SESI, July 2019 & SESI September 2019 Geotechnical Subsurface Investigation and Report.....	5
2.3.4 SESI Phase I ESA Report for 327-329 Huguenot Street (January 2021).....	6
2.3.5 Phase II ESA Report for 327-329 Huguenot Street (January 2021) .....	6
2.4 Geologic Setting .....	7
2.5 Hydrogeologic Setting .....	8
2.6 Subsurface Features.....	8
2.7 Summary of Environmental Assessment .....	8
3.0 FIELD REMEDIAL INVESTIGATION .....	9
3.1 Soil Remedial Investigation.....	9
3.2 Groundwater Remedial Investigation.....	11
3.3 Soil Vapor Investigation .....	14
4.0 SITE PREPARATION: SUPPORT OF EXCAVATION INSTALLATION.....	16
5.0 DECONTAMINATION and IDW .....	17
6.0 SURVEY.....	17
7.0 HUMAN HEALTH EXPOSURE ASSESSMENT .....	17

8.0	FISH AND WILDLIFE IMPACT ANALYSIS.....	18
9.0	DUSR .....	18
10.0	REPORTING .....	19
10.1	Remedial Investigation Report.....	19
11.0	QUALITY ASSURANCE/QUALITY CONTROL.....	20
12.0	HEALTH AND SAFETY PLAN .....	20
13.0	COMMUNITY AIR MONITORING .....	20
14.0	CITIZEN PARTICIPATION .....	20
15.0	REMEDIAL INVESTIGATION SCHEDULE .....	20
16.0	SOIL/MATERIALS MANAGEMENT PLAN.....	21
16.1	Soil Screening Methods .....	21
16.2	Stockpile Methods for Soils .....	22
16.3	Contingency Plan .....	22
16.4	Odor, Dust and Nuisance Control Plan .....	23



LIST OF TABLES:

**TABLE 1.1:** SURROUNDING PROPERTIES

**TABLE 3.1:** PROPOSED SOIL BORING LOCATIONS

**TABLE 3.2:** PROPOSED GROUNDWATER MONITORING WELL LOCATIONS

**TABLE 3.3:** PROPOSED SOIL VAPOR SAMPLE LOCATIONS

**TABLE 15.1:** REMEDIAL INVESTIGATION SCHEDULE

LIST OF FIGURES:

**FIGURE 1:** SITE LOCATION MAP

**FIGURE 2.1:** SITE PLAN

**FIGURE 2.2:** SOIL SAMPLE RESULTS PLAN

**FIGURE 2.3:** GROUNDWATER SAMPLING RESULTS PLAN

**FIGURE 2.4:** SOIL VAPOR SAMPLING PLAN

**FIGURE 3.1:** PROPOSED SOIL BORING LOCATION PLAN

**FIGURE 3.2:** PROPOSED GROUNDWATER MONITORING WELL LOCATION PLAN

**FIGURE 3.3:** PROPOSED SOIL VAPOR POINT LOCATION PLAN

LIST OF APPENDICES:

**APPENDIX A:** FIGURES

**APPENDIX B:** PREVIOUS ENVIRONMENTAL REPORTS (ELECTRONIC)

**APPENDIX C:** EMERGING CONTAMINANT SAMPLING PLAN

**APPENDIX D:** QUALITY ASSURANCE PROJECT PLAN (QAPP)

**APPENDIX E:** TYPICAL BORING/WELL CONSTRUCTION LOG

**APPENDIX F:** HEALTH AND SAFETY PLAN (HASP)

**APPENDIX G: COMMUNITY AIR MONITORING PLAN (CAMP)**

**APPENDIX H: CITIZEN PARTICIPATION PLAN (CPP)**

## 1.0 INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) has entered into a Brownfield Cleanup Program (BCP) Agreement (BCA) with RFMCH Huguenot Property Owner II LLC and RFMCH Huguenot Development Partners II LLC (the “Volunteers”) , for the 0.35-acre property known as Block 417 New Rochelle Site (C360216), 327-329 Huguenot Street, New Rochelle, New York (hereinafter the “Site”). The BCA was executed on June 1, 2021. A Site Location Map is presented as **Figure 1** in **Appendix A**.

This document comprises a Remedial Investigation Work Plan (RIWP) to be conducted at the Site, as part of the Site’s planned remedial investigation and remediation. It includes a description of the Site, summary of the Site history and previous environmental investigations, a description of the Site’s physical, geologic, hydrogeologic setting and subsurface features and a plan of action for further investigation of the areas of concern identified previously, and a plan to install support-of-excavation (SOE).

This RIWP has been prepared to achieve the following objectives:

- To complete the horizontal and vertical delineation of the nature and extent of contamination on the Site,
- To identify any potential source areas of contamination,
- To determine the remedial action needed to protect human health and the environment,
- To collect sufficient data to advance the remediation of the Site, and
- To allow for the installation of SOE.

This RIWP is developed in general accordance with the Department’s Remediation Technical Guidance for Site Investigation and Remediation (DER-10).

## 2.0 PROJECT BACKGROUND

### *2.1 Site Description*

The Site is a 0.344-acre property located at 327-329 Huguenot Street in New Rochelle, Westchester County, New York. The Site consists of an asphalt-paved parking lot with no

permanent structures. The Site is currently used for storage of construction materials, parking, and also contains two temporary office trailers.

The Site is bounded to the east by Huguenot Street, to the south by Centre Avenue, to the west by a supermarket, and to the north by a church. The Site is identified on tax map records as Section 2, Block 417, Lot 0001. **Figure 2.1** in **Appendix A** presents a Site Plan.

Adjacent properties are tabulated on Table 1 below:

**Table 1.1 – Surrounding Properties**

Direction	Adjacent Property
North	Trinity Saint Paul's Episcopal Church
East	Huguenot Street, residential and commercial properties beyond
South	Centre Avenue, residential and commercial properties beyond
West	Rancho Grande supermarket

The project is planned as a multi-story residential apartment building with ground floor retail space and a structured parking garage beneath the building.

## ***2.2 Site History***

The Site was previously developed with an apartment building from the early 1900s until circa 1992, and has been an asphalt-paved parking lot since that time until the present. Based upon the results of SESI's Phase II investigation described in Section 2.3.5 below, the Site contains contaminated urban fill material, which may have originated from the demolition of the former apartment building, or from contaminated backfill imported to the Site.

## ***2.3 Previous Environmental Investigations***

The following environmental reports are attached in **Appendix B** and summarized below:

- Phase I Environmental Site Assessment for 327-329 Huguenot Street, prepared for RFMCH Huguenot Property Owner LLC, RFMCH Huguenot Property Owner II LLC, and RFMCH Huguenot Development Partners II LLC, prepared by SESI, January 2021.

- Phase II ESA for 327-329 Huguenot Street, prepared for RFMCH Huguenot Property Owner LLC, RFMCH Huguenot Property Owner II LLC, and RFMCH Huguenot Development Partners II LLC, prepared by SESI, January 2021
- September 2019 SESI Consulting Engineers, DPC (SESI) Geotechnical Subsurface Investigation and Report
- Summary Memorandum of Environmental Sampling at 329 and 339 Huguenot Street, prepared by SESI, July 2019
- Nelson, Pope & Voorhis, LLC Phase I Environmental Site Assessment (ESA) April 2017
- Nelson, Pope & Voorhis, LLC Limited Soil Vapor Phase II ESA June 2017

### ***2.3.1 Nelson, Pope & Voorhis, LLC Phase I Environmental Assessment (April 2017)***

In April 2017, Nelson, Pope & Voorhis, LLC (NP&V) prepared a Phase I Environmental Site Assessment for a prior prospective purchaser Don and Darren Monti of Renaissance Downtowns UrbanAmerica, LLC. The Phase I ESA was performed to identify Recognized Environmental Conditions (RECs) on the Site and properties located south of the Site. The southern property is known as 339 Huguenot Street (tax identification nos. 2-437-0001 and 2-437-003).

The Site inspection revealed no evidence of stressed vegetation, pools of discharge, or residue of toxic substances, chemical odors, or other such indicators. In addition, no suspect friable asbestos containing material was observed at the Site. However, a Tier I Vapor Encroachment Condition (VEC) Assessment was conducted as part of the April 2017 Phase I ESA due to the proximity of this site to other suspect Brownfield sites. The assessment revealed the presence of several sites located within critical distances with documented releases or which were involved in an activity that could result in a release of petroleum product or toxic chemicals. Therefore, NP&V could not rule out a VEC for this Site.

NP&V obtained an Environmental Database Report from Toxics Targeting, Inc. as part of the Phase I ESA, which was separately attached. The Site did not appear on any of the relevant lists. Nevertheless, NP&V identified two RECs for the Site. The first REC was that the Site was formerly occupied by an apartment building and that improper demolition may have caused environmental contamination. The second REC was that several sites located within established critical distances had documented a release or were involved in an activity which could result in a release of petroleum product or toxic chemicals.

NP&V recommended a ground penetrating survey (GPR) be performed on the Site. In addition, a soil vapor intrusion study was recommended to determine if the subject property is being impacted by vapor migration from nearby sites.

### ***2.3.2 Nelson, Pope & Voorhis, LLC Phase II ESA (June 2017)***

NP&V performed a Limited Phase II Soil Vapor Environmental Site Assessment in June 2017 on this Site and an adjacent Site at 339 Huguenot Street. This assessment was also prepared for prior prospective purchasers Don and Darren Monti of Renaissance Downtowns Urban America, LLC. A ground penetrating radar (GPR) survey was conducted during the Limited Phase II ESA to determine if any underground fuel oil storage tanks associated with buildings on the Site were still present. The survey did not identify any underground fuel oil storage tanks on the property. NP&V also received records from the City of New Rochelle, which allegedly indicated that fuel oil storage tanks that had been present in a former building had been removed and properly disposed. However, NP&V failed to specify which of the two parcels they were investigating applied to this comment and failed to attach the actual City records to their report. Nevertheless, since the tanks were allegedly removed and the GPR survey did not find any evidence of tanks, there was no evidence that tanks are present on this Site.

NP&V also performed soil vapor/ambient air quality testing during the Limited Phase II ESA. Two (2) soil vapor sampling points were installed and one ambient air sample was collected. Several VOCs were detected in the samples collected, including Tetrachloroethylene and methylene chloride. NP&V concluded that the soil vapor contamination indicated that soil vapors are possibly being generated from an on-site or off-site source.

In this Phase II Report, NP&V referenced an earlier November 2016 Remedial Investigation Report (RIR) prepared by MACTEC Engineering and Consulting, P.C. prepared for the NYSDEC in relation to the Industrial Overall Superfund Site (Site # 360109). MACTEC's RIR contained a plume map suggesting this Site may have contaminated groundwater to the north impacting this Site even though located approximately 0.08 miles from this BCP Site. Area-wide contaminated groundwater was impacted with tetrachloroethene (PCE) and trichloroethene (TCE), vinyl chloride, 1,1,1-Trichloroethane (TCA), and cis-1,2-dichloroethene. Only excerpts of this report were provided.

### ***2.3.3 Summary Memorandum of Environmental Sampling at 329 and 339 Huguenot Street, prepared by SESI, July 2019 & SESI September 2019 Geotechnical Subsurface Investigation and Report***

Between June 2019 and July 2019, SESI Consulting Engineers D.P.C. (SESI) performed a geotechnical and waste characterization environmental investigation program at this Site and at 339 Huguenot Street/33 Centre Avenue before the current Owner purchased this Site. The Volunteers' affiliated prior owner entities obtained a reliance letter on July 8, 2019 in relation to the NP&V 2017 Phase I and II Investigation Reports and reviewed the data from this June/July Investigation before acquiring the Site. The environmental data was summarized in a Summary Memorandum in July 2019 and the geotechnical findings were summarized in a September 2019 Geotechnical Subsurface Investigation Report. Both documents were prepared for Huguenot Partners, LLC c/o The Cappelli Organization since The Cappelli Organization had become associated with Huguenot Partners LLC, the prior site owner at this time. Neither party was aware of the Site's contamination based on the Site history and prior investigations until SESI's June/July investigation, which consisted of a Site reconnaissance, a review of existing soils and geologic data, a review of previous soil borings performed by Geotechnical Engineering Services, PC, a field investigation and a new subsurface investigation for only geophysical and waste characterization environmental conditions at the Site.

With respect to the geophysical conditions on the Site, SESI concluded that the soils on the Site would provide satisfactory support for the proposed buildings. The bedrock would provide suitable support for conventional shallow foundations with high bearing capacities. However, SESI recommended an evaluation of the foundations of adjacent buildings prior to construction and noted additional steps would be required due to the high level of groundwater. These steps would include installation of a foundation with a permanent dewatering system. The subsurface conditions of the Site also indicated that removal of rock will be needed prior to construction of the building. The Site soils were classified as Site Class B for seismic design purposes. See Section IV.10.E for full Site Hydrology and Geology.

With respect to environmental conditions on the Site, the composite waste characterization soil samples taken resulted in sample results revealing PAHs, pesticides, and metals above the NYSDEC unrestricted use soil cleanup objectives (USCOs) and SVOCs and metals above the NYSDEC restricted residential soil cleanup objectives (RRSCO). SESI recommended additional testing based on the exceedance levels detected at the Site.

### ***2.3.4 SESI Phase I ESA Report for 327-329 Huguenot Street (January 2021)***

Two (2) Areas of Concern (AOCs) were identified during SESI's Phase I ESA, as detailed below.

- **REC 1 –Offsite Spill Incident:** A spill incident was reported at 316 Huguenot St (across the street from the Site) and involved a spill of gasoline on August 3, 2020. Based on the spill report, the spill was reported based on the discovery of soil contaminated with gasoline during a Phase II environmental assessment. This facility is within 0.01 miles of the Site and at a higher elevation. Therefore, based on the close proximity and upgradient location of this spill in relation to the Site, this spill constituted a REC.
- **REC 2 – Previously Identified Soil Contamination:** Soil sampling completed at the Site by SESI in June 2019 and summarized in a memo in July 2019 (see Section 2.3.3) indicated the presence of contaminated soil at the Site including PAHs, pesticides, and metals in excess of the NYSDEC unrestricted and/or restricted residential soil cleanup objectives. Based on the confirmed presence of soils with contaminant levels in excess of applicable cleanup standards, this contaminated soil represented a REC.

Additional information from this report has been incorporated throughout this work plan where required.

### ***2.3.5 Phase II ESA Report for 327-329 Huguenot Street (January 2021)***

A total of twenty-one (21) soil samples were collected from 21 soil borings during two sampling events in October and November 2020. The soil sample locations were distributed to cover all areas of the Site. The recovered soil cores from each boring were field screened with a PID and observed for visual and olfactory indications of contamination. The soil sample depths were selected based on the field screening results.

Soil samples from 12 of the borings contained polycyclic aromatic hydrocarbons (PAHs) exceeding NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs), with 2 samples [S-13(5-6) and S-15(5-6)] well in excess of their corresponding RRSCO. Similarly, metals were detected in most samples above NYSDEC Unrestricted Use Soil Cleanup Objectives (USCOs), and in several samples well in excess of RRSCOs, including lead detected at over 2,000 mg/kg in one sample [S-19(2-3)]. In addition, PCBs were identified in one sample [S-2(3-4)] well above



the RRSCOs and in several other samples above USCOs. Pesticides exceeding USCOs were identified in almost all soil samples, but in two samples pesticide concentrations were identified exceeding residential SCOs, and one pesticide (DDT) exceeding the RRSCO in one sample, which is four orders of magnitude higher than the USCO. In addition, PFOS was detected in nine samples in excess of the NYSDEC unrestricted use guidance value. No VOCs or 1,4-dioxane were detected in any soil samples. Soil boring locations and a summary of the results exceeding USCOs and RRSCOs are depicted on **Figure 2.2**.

Six (6) groundwater samples were collected from temporary wells during the Phase II investigation. No groundwater was encountered in the overburden soils and thus all wells were installed in bedrock. Sample results were compared to NYSDEC Technical and Administrative Guidance Series 1.1.1 Ambient Groundwater Quality Criteria (AWQS). Total (unfiltered) PAHs were identified in 5 of 6 groundwater samples exceeding the AWQS. Pesticides were identified in the 3 temp wells installed in the southern portion of the Site above the AWQS, and PCBs were identified in one sample exceeding AWQS. Total (unfiltered) metals analysis indicated numerous metals exceeding AWQS, but this is attributed to high sample turbidity from temporary wells. To account for this, the samples were also analyzed for dissolved metals, and only four metals including magnesium, manganese, iron, and sodium, which are primarily naturally-occurring, were present above AWQS in some or all temp wells. PFOA and PFOS were identified in 3 wells exceeding the NYSDEC groundwater screening level of 10 parts per trillion (ppt) for PFOA and PFOS individually. VOCs were not detected in excess of AWQS, and 1,4-dioxane was not detected in any groundwater samples. Temporary well/groundwater sample locations and a summary of the results exceeding AWQS are depicted on **Figure 2.3**.

Four (4) soil vapor samples were also collected at the Site during the Phase II ESA. Soil vapor analytical results indicated that several VOCs were detected, however there are no applicable standards for comparison since the NYSDOH soil vapor intrusion (SVI) matrices require both indoor air and sub-slab vapor data in order to make a determination on the potential for SVI issues. Soil vapor sample locations are shown on **Figure 2.4**.

The complete Phase II ESA report is included in **Appendix B**.

## ***2.4 Geologic Setting***

Regional surface topography slopes downward to the southwest. Based on the U.S. Geological Survey – Mount Vernon Quadrangle map, the Site is approximately 96 feet above the

North American Datum. Based on soil borings conducted during SESI's 2020 Phase II investigation and during SESI's geotechnical investigation completed in June 2019, subsurface geology generally consisted of uncontrolled fill from the surface down to depths ranging from 5 to 11 ft bg, followed by natural decomposed rock which extends to varied depths to a maximum of 22 ft bg, beneath which bedrock was encountered. Bedrock consisted of dark gray, weathered, hard, slightly to intensely fractured Gneiss; overlying dark gray, slightly weathered, hard, slightly fractured to moderately fractured Schist, with high angle foliations/banding.

### ***2.5 Hydrogeologic Setting***

Groundwater was not encountered in overburden soils during SESI's Phase II ESA. Groundwater was encountered in bedrock, and groundwater depths ranged from 16 to 27 ft bg across the Site, indicating that some shallow water-bearing fractures are present in bedrock. According to USGS mapping and groundwater flow information from the neighboring Centre Avenue Development South site, groundwater likely flows in a southwesterly direction in the vicinity of the Site. However, local groundwater flow direction can be affected by subsurface openings or obstructions such as basements and utilities, groundwater pumping and other factors.

### ***2.6 Subsurface Features***

No current or historic underground storage tanks (USTs) have been identified on the property. No storm drains were observed in the parking lot.

### ***2.7 Summary of Environmental Assessment***

Based on the investigations conducted to date, the primary contaminants of concern (COCs) are anticipated to be SVOCs, pesticides, PCBs, PFAS compounds, and metals. COCs will be refined based on the RIR results.

### 3.0 FIELD REMEDIAL INVESTIGATION

Soil borings, sub-slab vapor and soil vapor points, and groundwater monitoring wells are proposed below based on the following rationale to complete the nature and extent delineation of contaminated soil, groundwater and soil vapor on the Site. The applicable standards criteria and guidance (SCGs) for the Site soil are the USCOs. The applicable criteria for sub-slab vapor are the NYSDOH Decision Matrices (May 2017). The applicable standards criteria and guidance (SCGs) for the Site groundwater are the Division of Water and Technical Operation Guidance Series 1.1.1 (TOGS) Groundwater Effluent Limitations Class GA standards (cf. Section 703.6), and the guidance values for perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS) [NYSDEC Sampling, Analysis, And Assessment Of Per- And Polyfluoroalkyl Substances (PFAS), January 2021].

#### *3.1 Soil Remedial Investigation*

Prior to drilling activities, the driller will place a “one-call” to have all public utilities surrounding the Site marked out. There are no subsurface utilities on the Site.

Surface soil samples are not being collected because the existing hard surfaces (asphalt pavement) encompass the entire surface area at this time. If the anticipated future conditions change and existing soil is to remain exposed at the site, surface soil samples may need to be collected and analyzed.

In order to further evaluate the soils, sixteen (16) soil borings will be performed on the Site in a grid pattern to evaluate and delineate the previously-identified soil contamination. In addition, waste characterization samples will be collected from the borings for disposal approval. The proposed soil boring locations are shown on **Figure 3.1 in Appendix A**.

The borings will be advanced using direct-push or other drilling methods as needed. The borings will extend to bedrock and/or refusal. Soil samples will be at a minimum of one sample per 5-foot depth interval biased based on field screening that includes visual observations, PID readings and olfactory observations. Boring logs documenting soil classifications, PID readings, and visual observations will be provided in the final report.

Upon retrieval of the sampling barrel, the collected sample shall be placed in glass jars and labeled, stored on site (on ice in a cooler if necessary), and transmitted to the appropriate testing laboratory. Chain-of-custody procedures will be practiced following Section 15, EPA-600/4-82-

029, Handbook for Sampling and Sample Preservation of Water and Waste Waters. Soil samples for VOC analysis will be collected in Encore ® devices.

A geologist or engineer will be on site during the drilling operations to fully describe each soil core, following the New York State Soil Description Procedure, and to retain representative samples of each core.

The drilling contractor will be responsible for obtaining accurate and representative samples, informing the geologist of changes in drilling pressure, keeping a separate general log of soils encountered including blow counts [i.e., the number of blows from a soil sampling drive weight (140 pounds)] required to drive the split-spoon sampler in 6-inch increments (if split-spoon sampling is utilized), and installing monitoring wells to levels directed by the supervising geologist following specifications further outlined in this protocol.

Soil samples collected from the sixteen (16) boring locations will be analyzed by a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory for TCL + 30/TAL which includes TCL SVOCs by EPA Method 8270, TAL metals by EPA Methods 6010, and 7471, VOCs by EPA Method 8260, pesticides by EPA Method 8081, polychlorinated biphenyls (PCBs) by EPA Method 8082, and cyanide via EPA Method 9012. In addition, all samples will be analyzed for PFAS compounds by EPA Modified Method 537. Analysis for 1,4-dioxane is included in the SVOC analysis for soil. The Sampling Plan for Emerging Contaminants is included as **Appendix C**. Category B deliverables will be requested on each sample chain of custody. The field sampling procedures are described in the quality assurance project plan (QAPP) included as **Appendix D**.

Quality assurance/quality control (QA/QC) samples will be collected and analyzed as specified in the QAPP. The number of duplicate, spiked and blank samples analyzed will be collected at a frequency of 1 duplicate for every 20 samples. The inclusion and frequency of analysis of field blanks will be on the order of one per every 20 soil samples but not more than one per day. Samples to be analyzed for volatile organic compounds will be accompanied by a field blank for all matrix types and trip blank for water matrices. The proposed soil sample locations and the rationale for their locations are presented in Table 3.1 below:

**Table 3.1 – Proposed Soil Sample Locations**

Location Name	Installation Method	Boring Depth (ft bg)	Proposed Sample Frequency	Boring Location Rationale	Sample Media	Sample Type	Analysis
RI-SB-1	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-2	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-3	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-4	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-5	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-6	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-7	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-8	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-9	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-10	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-11	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-12	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-13	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-14	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-15	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS
RI-SB-16	Geoprobe Soil Boring	Bedrock/refusal	1 Sample per Every 5 ft.	side-wide Investigation	Soil	Grab	TCL+30/TAL, PFAS

### ***3.2 Groundwater Remedial Investigation***

To investigate the Site groundwater, four (4) permanent groundwater monitoring wells will be installed prior to excavation of soil and sampled as shown on **Figure 3.2** in **Appendix A**. The wells will be installed to a depth of 10 feet below the bedrock interface. Each monitoring well will be constructed with 2-inch diameter well screens. The well screening will intersect the water table and extend to the bottom of the well boring. The overburden will be cased off with steel casing to prevent cross-contamination. The annular space of each well will be filled with well sand to at least 2' above the screen and will be sealed with hydrated bentonite or cement grout. Finally, each monitoring well will be completed with a flush-mount road-box or stickup as necessary. A typical boring and well construction log is provided in **Appendix E**.

The Groundwater RI is conducted to achieve the following:

- delineate the extent of contaminants in the Site groundwater;
- determine whether a contaminant plume is present, and if so, whether it is expanding, contracting or stable;
- gather sufficient data to determine groundwater flow direction and contour map and evaluate groundwater remedial alternatives, including, as appropriate, monitored natural attenuation (MNA), and
- provide information on the background quality of the groundwater flowing into the Site.

All the wells will be surveyed for location and elevation. The survey data will be provided pursuant to the DER-10 requirements in an acceptable format (e.g., North America Datum 83 [NAD83]). The wells will be gauged for groundwater depth to determine the groundwater elevation. The Site-specific groundwater flow direction and gradient will be determined based on the latest elevation data and summarized in the Remedial Investigation Report (RIR). The proposed well locations are shown on **Figure 3.2** in **Appendix A**.

One (1) round of sampling will be conducted from the newly installed wells. The data will be analyzed to determine the magnitude of groundwater contamination that exists, whether or not it is derived from the Site, and the magnitude and the extent of the potential contaminant plume. In addition to the analytical data, field measurements and chemical analyses will be conducted to characterize the impacted groundwater. If contamination is identified in the groundwater that is determined to be site-related, additional boreholes may be advanced in order to perform borehole geophysics, which will aid in identifying the nature and extent of water-bearing fractures in the bedrock, if warranted.

All the wells will be sampled for TCL + 30/TAL, PFAS, and 1-4 dioxane. The VOCs will be analyzed by EPA Method 8260, SVOCs by EPA Method 8270, pesticides by EPA Method 8081, PCBs by EPA Method 8082, TAL metals by EPA Methods 6010, 7471, and 9012, PFAS compounds by Modified EPA Modified Method 537, and 1-4,dioxane by EPA Method 8270 SIM. The Sampling Plan for Emerging Contaminants is included as **Appendix C**, and the QAPP which describes all field sampling procedures is included as **Appendix D**.

All groundwater samples will be analyzed by a NYSDOH ELAP certified laboratory and Category B deliverables will be requested on each sample chain of custody. In addition, QA/QC

samples will be collected and analyzed as specified in the QAPP. Specifically, the number of duplicate, spiked and blank samples analyzed will be a minimum of 1 duplicate for every 20 samples. 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.

The wells will be sampled using the low flow technique, when possible. A flow rate of 100 ml to 250 ml per minute is used to purge the wells. Drawdown should not exceed 0.3 feet. At the initiation of low flow purging a water level is recorded as well as field parameters. Field parameters are then monitored every five minutes during low flow purging using a flow through cell. When three consecutive measurements of pH differ by 0.1 units or less, with ORP within 10 mv or less, turbidity varies 10 percent or less, conductivity differs by 3 percent or less and dissolved oxygen by 10 percent or less, sampling may begin. Flow through cells are used so continuous real time readings are made. When the parameters stabilize the flow through cell is disconnected and sample bottles are filled directly from the tubing. If the parameters of a well do not stabilize in a timely manner, the groundwater sample will be collected after emptying three well volumes from the specific well being sampled.

In addition to water samples collected from the monitoring wells, two types of "blanks" will be collected and submitted to the chemical laboratory for analyses. The blanks will consist of 40 ml VOA vials, as follows:

- A trip blank will be prepared before the sample bottles are sent by the laboratory. It consists of a sample of distilled, deionized water which accompanies the other sample bottles into the field and back to the laboratory. A trip blank will be included with each shipment of samples where sampling and analysis for TCL volatiles is planned (water matrix only). The trip blank will be analyzed for TCL volatile organic compounds as a measure of potential contamination from background sources and their effect on the results.
- 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 proposed groundwater monitoring wells and the rationale for their locations are presented in the Table 3.2 below.

**Table 3.2 – Proposed Groundwater Monitoring Wells**

Well Name	Location	Rationale	Screen Depth	Screen Length	Proposed Well Depth	Analysis	Sample Method
MW-1	Northwestern corner of Site	Evaluate site groundwater impacts	20-30	10	30	TCL+30/TAL, PFAS and 1,4-Dioxane	Low Flow / Grab
MW-2	Northcentral area of Site	Evaluate site groundwater impacts	20-30	10	30	TCL+30/TAL, PFAS and 1,4-Dioxane	Low Flow / Grab
MW-3	Northeastern corner of Site	Evaluate site groundwater impacts	20-30	10	30	TCL+30/TAL, PFAS and 1,4-Dioxane	Low Flow / Grab
MW-4	Southwestern corner of Site	Evaluate site groundwater impacts	20-30	10	30	TCL+30/TAL, PFAS and 1,4-Dioxane	Low Flow / Grab

Notes:

Screen depth/total depth may depend on bedrock surface depth

### ***3.3 Soil Vapor Investigation***

SESI will collect four (4) soil vapor samples from soil vapor points in accessible areas. In addition, one (1) outdoor ambient air sample will be collected. The proposed soil vapor point locations are shown on **Figure 3.3** in **Appendix A**. The purpose of the soil vapor points is to assess the potential for vapor intrusion into future buildings. All soil vapor points will be installed to a depth of at least 5 feet below grade in order to minimize the potential for influence of ambient air on the vapor sample.

The soil gas samples will be collected in accordance with the procedures of the NYS Department of Health October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Specifically, the soil vapor probes will be advanced using direct push sampling equipment and samples will be collected by installing vapor implants. A sacrificial vapor point connected to flexible tubing will be inserted into the borehole. The annular space of the borehole will be filled sand and the surface will be sealed with bentonite to seal the surface. Prior to sampling the tubing system will be purged of ambient air with a low-flow pump.

The soil vapor samples will be collected into laboratory-supplied 1-liter, stainless-steel, summa canisters. The summa canisters will be equipped with a manometer to verify the canister is under vacuum, and a flow controller set to a flow rate of 2 hours. A sample log sheet will be maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, apparent moisture content of the sampling zone, and chain of custody protocols. The vapor samples will be sent to a certified laboratory for analysis of VOCs in accordance with EPA Method TO-15. In



addition to the soil vapor, one (1) ambient air sample will be collected with a 6-liter summa canister set to a flow rate of 100 ml/min. The field sampling procedures are described in the QAPP which is included as **Appendix D**.

As part of the vapor sampling, a tracer gas will be used to serve as a QA/QC device to verify the integrity of the soil vapor probe seal. Helium will be used as the tracer gas and a box will serve to keep it in contact with the probe during testing. A portable monitoring device will be used to analyze a sample of soil vapor for the tracer prior to sampling. If the tracer sample results show a significant presence of the tracer, the probe seals will be adjusted to prevent infiltration. At the conclusion of the sampling round, tracer monitoring will be performed a second time to confirm the integrity of the probe seals. SESI's field sampling procedures are described in the QAPP presented in **Appendix D**. The proposed soil vapor sampling points are presented on Table 3.3 below:

**Table 3.3 Proposed Soil Vapor Sample Locations**

Location Name	Installation Method	Proposed Sampling Depth (ft bg)	Sample Depth Rationale	Sample Media	Sample Type	Analysis
RI-SV-1	Geoprobe Soil Boring	5	Investigate SV impacts from Phase II	Soil Vapor	Grab / (2hr)	TO-15
RI-SV-2	Geoprobe Soil Boring	5	Investigate SV impacts from Phase II	Soil Vapor	Grab / (2hr)	TO-15
RI-SV-3	Geoprobe Soil Boring	5	Investigate SV impacts from Phase II	Soil Vapor	Grab / (2hr)	TO-15
RI-SV-4	Geoprobe Soil Boring	5	Investigate SV impacts from Phase II	Soil Vapor	Grab / (2hr)	TO-15
RI-SV-5	Geoprobe Soil Boring	5	Investigate SV impacts from Phase II	Soil Vapor	Grab / (2hr)	TO-15
RI-SV-6	Geoprobe Soil Boring	5	Investigate SV impacts from Phase II	Soil Vapor	Grab / (2hr)	TO-15
RI-OA-1	Outdoor ambient air	NA	Outdoor air control sample for soil vapor samples	Ambient air	8 hr	TO-15

## **4.0 SITE PREPARATION: SUPPORT OF EXCAVATION INSTALLATION**

Support of Excavation (SOE) is planned to be installed along the Site perimeter to prepare for the potential excavation of site Soils as the Site remedy. This SOE work will be conducted during the Site RI work.

Design and installation of the SOE system will support the structural stability of the potential excavation and will be designed to prevent impacts to off-site structures. Limited soil excavation/disturbance (up to 5 feet below existing grade) may result around the perimeter of the Site during the installation of the SOE. All the disturbed soils will be staged on plastic near its excavation location and will not be moved or stockpiled around the Site, and there will be no off-site disposal of the soils during the SOE installation. Any stockpiles left overnight will be covered with plastic sheeting. Soil stockpiles will be encircled with silt fences. Hay bales will be used as needed near catch basins, surface waters and other discharge points. Disturbed soil will be backfilled in the same area from which it originated following SOE installation activities. Any disturbed asphalt may be stockpiled temporarily during SOE installation, and will remain onsite until proper disposal of the asphalt as C&D debris can be arranged. Further details regarding soil management during SOE installation are detailed in Section 16 below.

All the SOE installation work and any associated soil excavation work described above will be conducted under the Community Air Monitoring Plan (CAMP) and Health and Safety Plan (HASP) along with any other required dust control measures. Site security will include a tarped chain-link fence or plywood fence that will serve as a secondary dust control measure.

## **5.0 DECONTAMINATION and IDW**

Equipment utilized for sample collection (i.e. spoons, trowels) will be decontaminated between each sample unless disposable equipment is utilized. Appropriate decontamination areas will be established to support work being conducted in each area of the Site. Deionized water supplied from the laboratory and certified PFAS free will be used for the decontamination of the sampling tools if needed. Locally supplied water, if available, or water supplied by the driller in a tank will be used to decontaminate the equipment.

All investigative derived waste (IDW) of soil cuttings and purged groundwater will be containerized, sampled, and properly disposed of pursuant to DER-10 requirements. Disposable sampling equipment, including macro core liners, spoons, gloves, bags, paper towels, and PPE that contacts environmental media will be double bagged and disposed of as municipal trash in a facility trash dumpster as non-hazardous refuse.

## **6.0 SURVEY**

After the RI sampling scope is completed, a survey will be completed, which includes the locations and elevations of all the monitoring wells and all the soil samples.

## **7.0 HUMAN HEALTH EXPOSURE ASSESSMENT**

A qualitative human health exposure assessment will be performed for the Site in accordance with the New York State Department of Health's Qualitative Human Health Exposure Assessment guidance document. Sampling data will be reviewed along with the physical conditions of the contaminant sources or physical hazards near the Site. Potential on-site and off-site exposures will be evaluated. The Exposure Assessment will describe the nature and size of the population exposed, or potentially exposed, to the contaminants that are present at, or migrating from the Site, and will characterize the exposure setting, identify exposure pathways and evaluate contaminant fate and transport.

Several objectives will be met by the exposure assessment. First, applicable Site information and characterization data for environmental media of concern will be evaluated. Applicable SCGs including Part 375 Soil Cleanup Objectives (SCOs) and CP-51 SCOs for soil and the TOGS Class GA water quality standards and guidance values for groundwater and surface water will be applied.

An assessment of current and future Site activities and Site use will be conducted in relation to potential human exposure. Next, potential exposure pathways will be identified, and each aspect of the potential exposure pathway will be evaluated. Soil and groundwater contamination will be addressed and the impact of remediation on future exposure scenarios will be analyzed.

## **8.0 FISH AND WILDLIFE IMPACT ANALYSIS**

A Fish and Wildlife Resources Impact Analysis (FWIA) Decision Key will be completed by SESI prior to the excavation work to determine if a FWIA is needed. Contaminant migration pathways and any fish and wildlife exposure pathways will be identified. As stated in the FWIA, “if no resources are associated with the site or if there is no potential for contaminant migration to the resources, then only the necessary information to support that conclusion should be provided.” If the results from the RI, along with site inspections, support this conclusion, documentation will be submitted with the RI Report.

If resources are identified, or migration pathways exist, a FWIA will be completed and submitted as part of the RI Report. The FWIA would be completed to identify actual or potential impacts to fish and wildlife resources from Site contaminants. The FWIA would qualitatively determine the route, intensity, frequency, and duration of actual or potential exposures to chemicals, describe the nature and size of the population exposed to the contaminants that are present at or migrating from the site, and characterize the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport.

A Fish & Wildlife assessment is not anticipated for this Site as it is located in an urban setting and not adjacent to or nearby a surface water body or wildlife area.

## **9.0 DUSR**

Following the completion of the laboratory analysis program, a Data Usability Summary Report (DUSR) will be completed for the lab data and included as part of the RI Report. The DUSR will include available datasets from previous investigations, as well as data from this phase of Site characterization. The DUSR is carried out as specified in DER-10 to evaluate the quality control measures that were implemented during the field and laboratory analytical programs, with the objective of determining whether the reported analytical data are representative and usable for decision making. The DUSR will evaluate whether the data are technically defensible (i.e.

were all analytical data requirements met and documented?). Data usability analysis reviews the Site data to determine whether they are adequate to draw conclusions regarding the nature and extent of contamination.

The items that will be reviewed as part of the DUSR will include the following:

- Completeness (number of samples collected and analyzed compared to plans)
- Chains of custody are complete and accurate
- Holding times
- Instrument calibration
- Relative percent difference between field duplicates
- Reasonableness of data (e.g. relationships between total and soluble analytes)
- Blank contamination

The DUSR will be conducted in accordance with guidelines provided under Appendix 2B of DER-10. The site-specific Quality Assurance Project Plan (QAPP) is included in **Appendix D**.

## **10.0 REPORTING**

### ***10.1 Remedial Investigation Report***

Following the completion of the RI activities and the receipt of sample results, a Remedial Investigation Report (RIR) report will be prepared. The RIR report will summarize the activities completed during the RI including analytical results, well construction and sampling logs, waste characterization information for disposal purposes, conclusions from the FWIA if necessary, a DUSR and laboratory data packages. Scaled figures showing the sample locations and areas of contamination exceeding applicable standards will be prepared for soil, soil vapor and groundwater. Sampling results will be summarized and discussed and the need for additional investigation and remediation will be evaluated. In addition, analytical summary tables will be prepared for soil, soil vapor, and groundwater compared to applicable standards.

The RIR will also include: 1) a summary of the site history and previous investigations, 2) a description of current site conditions, 3) the identification of exposure pathways via a Qualitative Human Health Exposure Assessment; an analysis of the results, 4) a description of the nature and extent of the contamination; and 5) a detailed conclusions with recommendations.

Analytical data collected during the Remedial Investigation and previous data used for the selection of the remedy will be submitted in the NYSDEC approved Electronic Data Deliverable (EDD) format. EDDs will be prepared using the DEC's Environmental Information Management System (EIMS) database software application EQuIS™ for submission.

## 11.0 QUALITY ASSURANCE/QUALITY CONTROL

QA/QC is addressed in the QAPP included as **Appendix D**. The QAPP outlines procedures to be followed for sampling and analysis to ensure quality of the results. A DUSR will be prepared with the final reports to document the reliability of the sample results.

## 12.0 HEALTH AND SAFETY PLAN

A Site-specific HASP has been prepared and is included as **Appendix F**. All on-site personnel and visitors involved in the RI and IRM will be required to read and sign the HASP prior to entry of the Site.

## 13.0 COMMUNITY AIR MONITORING

A CAMP is provided as **Appendix G**, in accordance with DER-10 requirements for remedial investigation. The CAMP sets forth air monitoring procedures that will be utilized to measure airborne emissions during the RI and SOE installation, in order to minimize the release of contaminants to off-Site areas.

## 14.0 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 H**.

## 15.0 REMEDIAL INVESTIGATION SCHEDULE

The proposed remedial investigation schedule is presented on Table 15.1 below.

**Table 15.1 Proposed Remedial Investigation Schedule**

<b>Activity</b>	<b>Scheduled Date</b>
Remedial Investigation – Soil and Soil Vapor Sampling	Commencing August 15, 2021 (Anticipated timeframe 2 weeks)
Remedial Investigation Groundwater Sampling	Commencing September 1, 2021 (Anticipated timeframe 2 weeks)
Submit Draft RIR	September 25, 2021
SOE Installation	Commencing September 1, 2021 (Anticipated timeframe 4 weeks)

## **16.0 SOIL/MATERIALS MANAGEMENT PLAN**

The objective of the proposed excavation is to provide safe access for the operators and workers to weld the top 5-foot section of the installed SOE, which consists of king piles (metal H beams) and steel sheet piles. The soils will be excavated to a depth of up to 5 feet below existing grade around the perimeter of the Site, where the SOE will be installed, for the purpose of welding the sheet piles to the king piles. The excavations will extend laterally up to 7 feet from the SOE and will be sloped at 1-½ to 1 ratio for safety purposes. In addition, in certain area underpinning may be required for adjacent buildings and the excavation of the soil will extend to the depth of the adjacent building foundations. All the excavated soils will be staged near its location and will not be moved or stockpiled around the Site. The resulting excavations will be backfilled with the staged soils following SOE completion and will remain place until the approval of the RAWP.

Minimal removal of the existing site cover will take place during excavation. Asphalt cover around the perimeter of the Site will be removed to accommodate the SOE.

### ***16.1 Soil Screening Methods***

Visual, olfactory and PID soil screening and assessment will be performed by a qualified environmental professional during remedial and development excavations into known or potentially contaminated material (Residual Contamination Zone).

## ***16.2 Stockpile Methods for Soils***

Staged soil will be replaced into the excavation area following completion of the SOE activities. During SOE work, the soil will be placed on plastic next to the excavation and covered with a tarp.

Stockpiles of excavated materials will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected, and damaged tarp covers will be promptly replaced.

Soil stockpiles will be encircled with silt fences. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

## ***16.3 Contingency Plan***

If underground tanks or other previously unidentified contaminant sources are found during the SOE installation, sampling will be performed on product, sediment and surrounding soils, etc. Chemical analytical work will be for full scan parameters (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs, and emerging contaminants).

Identification of unknown or unexpected contaminated media identified by screening during invasive Site work will be promptly communicated by phone to NYSDEC's Project Manager. These findings will be also included in daily and periodic electronic media reports.

If grossly contaminated media is encountered, it will be separately stockpiled on plastic and covered. Waste characterization sampling of the stockpile will be conducted to determine an appropriate disposal facility. Waste characterization will be performed per the proposed facilities requirements. In addition, remedial investigation sampling or post excavation will be performed within and surrounding the grossly contaminated material to vertically and horizontally to delineate the extent of the contamination. Samples will be analyzed for a combination of full target compound list (TCL) and target analyte list (TAL) analytes – which include volatile organic compounds (USEPA Method 8260), metals (USEPA Methods 6010/7471), semi-volatile organic compounds (USEPA Method 8270), PCBs and pesticides (USEPA Methods 8081/8082), and PFAS (USEPA Method 537), and 1,4 dioxane (USEPA Method 8270). Duplicates, field blanks, equipment blanks and matrix spike/matrix duplicate samples will be analyzed as required for



TCL/TAL PFAS and 1,4 dioxane. Trip blanks will accompany all samples analyzed for volatile organic compounds (VOCs).

## ***16.4 Odor, Dust and Nuisance Control Plan***

### **Odor Control Plan**

This odor control plan is designed to control emissions of nuisance odors off-Site. If nuisance odors are identified, work will be halted, and the source of odors will be identified and corrected. Work will not resume until nuisance odors have been abated.

The necessary means will be employed to prevent on- and off-Site nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-Site disposal; (e) use of chemical deodorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

Where odor nuisances have developed during the excavation and cannot be corrected, or where the release of nuisance odors cannot otherwise be avoided due to on-Site conditions or close proximity to sensitive receptors, odor control will be achieved, as appropriate, by a combination of work stoppages, sheltering excavation and handling areas under tented containment structures equipped with appropriate air venting/filtering systems. In addition, Odor, dust and nuisance control will be in accordance with the site-specific Health and Safety Plan included as **Appendix F**.

### **Dust Control Plan**

A dust suppression plan that addresses dust management during invasive on-Site work, will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-Site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.

- On-Site roads will be limited in total area to minimize the area required for water truck sprinkling.

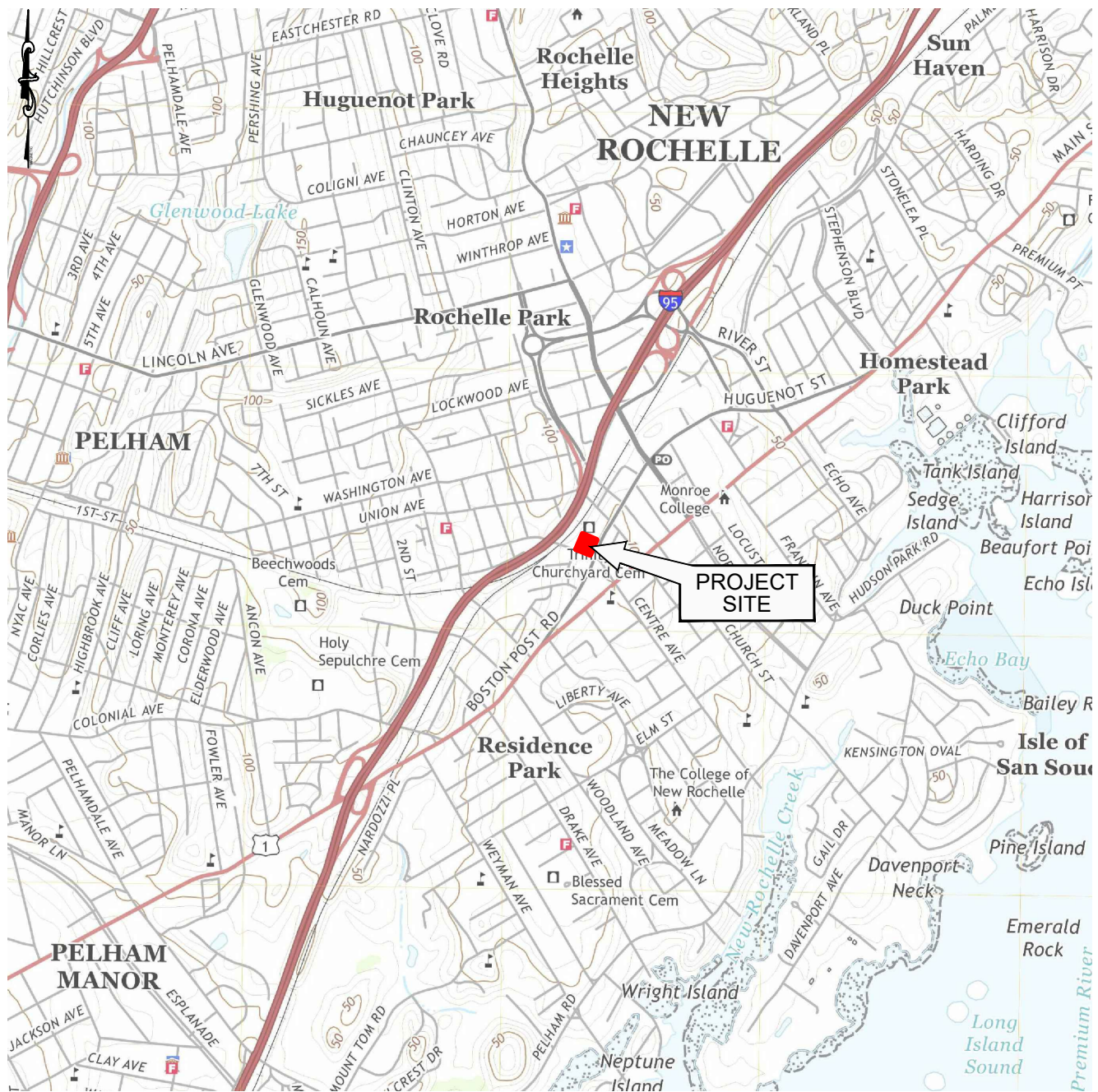
### **Other Nuisances**

A plan for rodent control will be developed and utilized by the contractor prior to and during Site clearing and Site grubbing, and during all remedial work.

A plan will be developed and utilized by the contractor for all remedial work and will conform, at a minimum, to local noise control standards.

## **APPENDIX A - FIGURES**

N:\ACAD\11571\CAD\PHASE II\11571 - FIG-1 - SITE LOCATION MAP.DWG 01/07/21 12:01:40PM, aas, LAYOUT:FIG-1



REFERENCE:  
 HISTORICAL TOPOGRAPHICAL MAP OBTAINED FROM USGS DATABASE, DATED 2019.

Scale 1"=2000'



1	2	3
4	5	6
7	8	

ADJOINING QUADRANGLES

- 1 Nyack
- 2 White Plains
- 3 Glenville
- 4 Tonawanda
- 5 Mamaroneck
- 6 Central Park
- 7 Flushing
- 8 Sea Cliff

329 HUGUENOT STREET  
 NEW ROCHELLE, NEW YORK

SITE LOCATION MAP

**SESI**  
 CONSULTING  
 ENGINEERS D.P.C.

SOILS / FOUNDATIONS  
 SITE DESIGN  
 ENVIRONMENTAL

12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

FIG-1

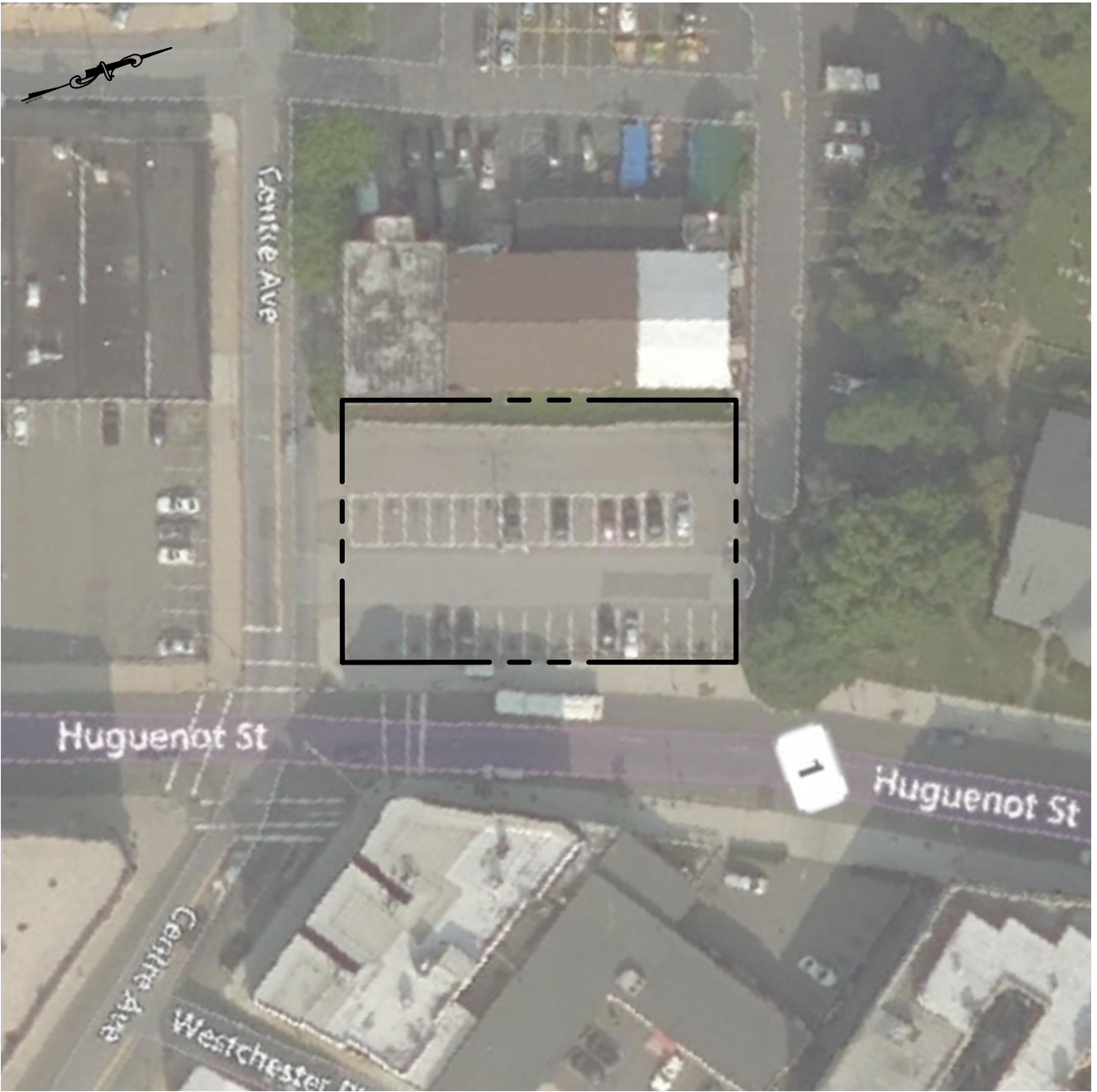
DRAWN BY: aas

CHECKED BY: JAM

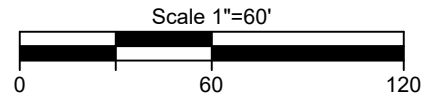
SCALE: AS NOTED

DATE: 01/07/2021

JOB NO.: 11571



REFERENCE:  
 AERIAL IMAGERY TAKEN FROM BING MAPS, DATED 1/8/2021.



----- PROPERTY LINE / BCP SITE BOUNDARY

N:\ACAD\11571\CAD\11571 - FIG-2 - SITE PLAN.DWG 01/08/21 02:09:32PM, rdm, LAYOUT:FIG-2

329 HUGUENOT STREET  
 NEW ROCHELLE, NEW YORK

SITE PLAN

**SESI**  
 CONSULTING  
 ENGINEERS D.P.C.

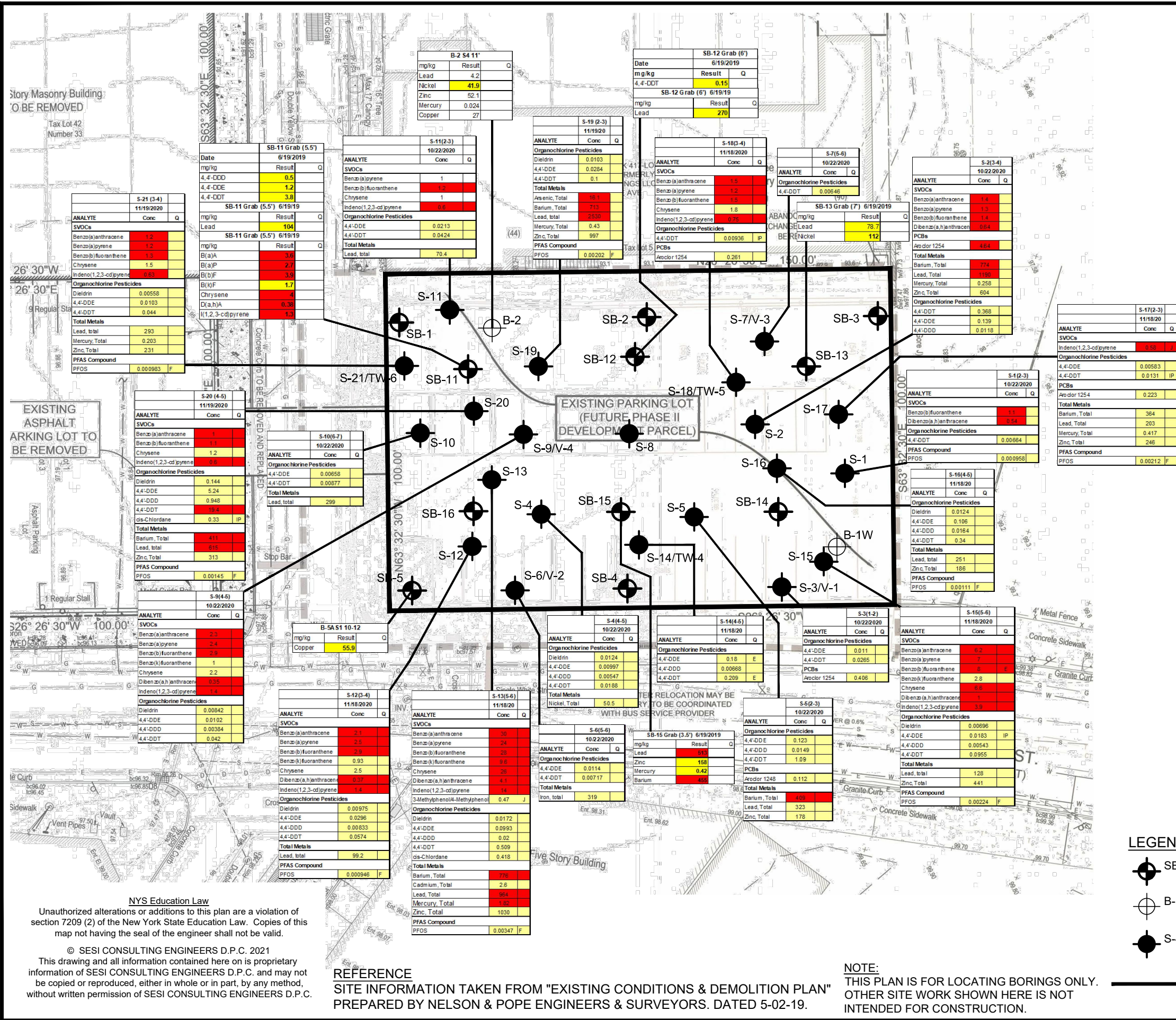
SOILS / FOUNDATIONS  
 SITE DESIGN  
 ENVIRONMENTAL

12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

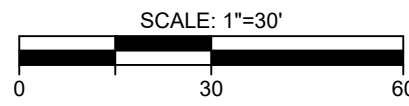
<b>FIG-2.1</b>
DRAWN BY: aas
CHECKED BY: JAM
SCALE: AS NOTED
DATE: 01/08/2021
JOB NO.: 11571



N:\ACAD\11571\CAD\PHASE II\11571 - FIG-2.2 - SOIL SAMPLE RESULTS PLAN.DWG 07/26/21 10:39:12AM, aas, LAYOUT:FIG-2.2



ANALYTE	NY-RESR (mg/kg)		
	NY-RESR	NY-RESR	NY-UNRES
<b>SVOCs</b>			
Benzo(a)anthracene	1	1	1
Benzo(a)pyrene	1	1	1
Benzo(b)fluoranthene	1	1	1
Benzo(k)fluoranthene	1	3.9	0.8
Chrysene	1	3.9	1
Dibenz(a,h)anthracene	0.33	0.33	0.33
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5
3-Methylphenol/4-Methylphenol	34	100	0.33
<b>Total Metals</b>			
Arsenic	16	16	13
Barium	350	400	350
Cadmium	2.5	4.3	2.5
Lead	400	400	63
Mercury	0.81	0.81	0.18
Zinc	2200	10000	109
<b>Organochlorine Pesticides</b>			
Dieldrin	0.039	0.2	0.005
4,4'-DDE	1.8	8.9	0.0033
4,4'-DDD	2.6	13	0.0033
4,4'-DDT	1.7	7.9	0.0033
o,s-Chlordane	0.91	4.2	0.094
<b>PCBs</b>			
Aroclor 1254	1	1	0.1



- LEGEND:**
- SB-1 - SOIL BORING NUMBER & APPROX. LOCATION BY SESI (2019)
  - B-1 - SOIL BORING NUMBER & APPROX. LOCATION BY OTHERS
  - S-4 - SOIL BORING NUMBER & APPROX. LOCATION BY SESI (2020)
  - BCP SITE/PROPERTY BOUNDARY

**NYS Education Law**  
 Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS D.P.C. 2021  
 This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS D.P.C. and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS D.P.C.

**REFERENCE**  
 SITE INFORMATION TAKEN FROM "EXISTING CONDITIONS & DEMOLITION PLAN" PREPARED BY NELSON & POPE ENGINEERS & SURVEYORS. DATED 5-02-19.

**NOTE:**  
 THIS PLAN IS FOR LOCATING BORINGS ONLY. OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.

job no: 11571  
 drawing no:

# FIG-2.2

SOILS / FOUNDATIONS  
 SITE DESIGN  
 ENVIRONMENTAL

**SESI**  
 CONSULTING  
 ENGINEERS D.P.C.

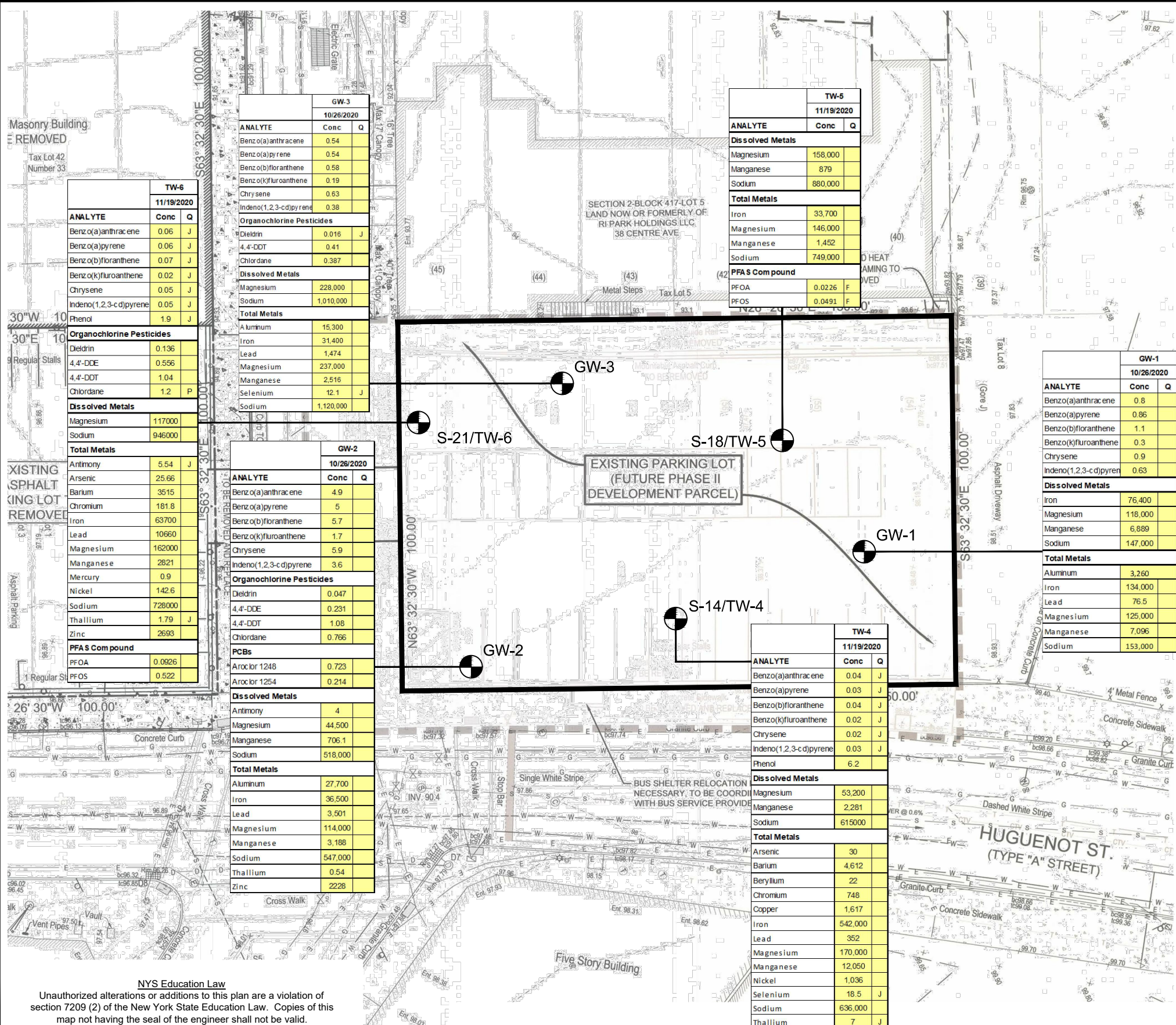
12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

dwg by: aas  
 chk by: JAM  
 scale: 1" = 40'  
 date: 01/13/2021

## SOIL SAMPLE RESULTS PLAN



N:\ACAD\11571\CAD\PHASE II\11571 - FIG-2.3 - GROUNDWATER SAMPLING RESULTS PLAN.DWG 07/26/21 10:38:34AM, aas, LAYOUT: FIG-2.3



TW-6		
11/19/2020		
ANALYTE	Conc	Q
Benzo(a)anthracene	0.06	J
Benzo(a)pyrene	0.06	J
Benzo(b)fluoranthene	0.07	J
Benzo(k)fluoranthene	0.02	J
Chrysene	0.05	J
Indeno(1,2,3-c-d)pyrene	0.05	J
Phenol	1.9	J

GW-3		
10/26/2020		
ANALYTE	Conc	Q
Benzo(a)anthracene	0.54	
Benzo(a)pyrene	0.54	
Benzo(b)fluoranthene	0.58	
Benzo(k)fluoranthene	0.19	
Chrysene	0.63	
Indeno(1,2,3-c-d)pyrene	0.38	

TW-5		
11/19/2020		
ANALYTE	Conc	Q
<b>Dissolved Metals</b>		
Magnesium	158,000	
Manganese	879	
Sodium	880,000	
<b>Total Metals</b>		
Iron	33,700	
Magnesium	146,000	
Manganese	1,452	
Sodium	749,000	
<b>PFA S Compound</b>		
PFOA	0.0226	F
PFOS	0.0491	F

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Benzo(a)anthracene	4.9	
Benzo(a)pyrene	5	
Benzo(b)fluoranthene	5.7	
Benzo(k)fluoranthene	1.7	
Chrysene	5.9	
Indeno(1,2,3-c-d)pyrene	3.6	

GW-1		
10/26/2020		
ANALYTE	Conc	Q
Benzo(a)anthracene	0.8	
Benzo(a)pyrene	0.86	
Benzo(b)fluoranthene	1.1	
Benzo(k)fluoranthene	0.3	
Chrysene	0.9	
Indeno(1,2,3-c-d)pyrene	0.63	

TW-4		
11/19/2020		
ANALYTE	Conc	Q
Benzo(a)anthracene	0.04	J
Benzo(a)pyrene	0.03	J
Benzo(b)fluoranthene	0.04	J
Benzo(k)fluoranthene	0.02	J
Chrysene	0.02	J
Indeno(1,2,3-c-d)pyrene	0.03	J
Phenol	6.2	

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Antimony	5.54	J
Arsenic	25.66	
Barium	3515	
Chromium	181.8	
Iron	63700	
Lead	10660	
Magnesium	162000	
Manganese	2821	
Mercury	0.9	
Nickel	142.6	
Sodium	728000	
Thallium	1.79	J
Zinc	2693	

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Antimony	4	
Magnesium	44,500	
Manganese	706.1	
Sodium	518,000	

TW-4		
11/19/2020		
ANALYTE	Conc	Q
Arsenic	30	
Barium	4,612	
Beryllium	22	
Chromium	748	
Copper	1,617	
Iron	542,000	
Lead	352	
Magnesium	170,000	
Manganese	12,050	
Nickel	1,036	
Selenium	18.5	J
Sodium	636,000	
Thallium	7	J

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Antimony	5.54	J
Arsenic	25.66	
Barium	3515	
Chromium	181.8	
Iron	63700	
Lead	10660	
Magnesium	162000	
Manganese	2821	
Mercury	0.9	
Nickel	142.6	
Sodium	728000	
Thallium	1.79	J
Zinc	2693	

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Antimony	4	
Magnesium	44,500	
Manganese	706.1	
Sodium	518,000	

TW-4		
11/19/2020		
ANALYTE	Conc	Q
Arsenic	30	
Barium	4,612	
Beryllium	22	
Chromium	748	
Copper	1,617	
Iron	542,000	
Lead	352	
Magnesium	170,000	
Manganese	12,050	
Nickel	1,036	
Selenium	18.5	J
Sodium	636,000	
Thallium	7	J

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Antimony	5.54	J
Arsenic	25.66	
Barium	3515	
Chromium	181.8	
Iron	63700	
Lead	10660	
Magnesium	162000	
Manganese	2821	
Mercury	0.9	
Nickel	142.6	
Sodium	728000	
Thallium	1.79	J
Zinc	2693	

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Antimony	4	
Magnesium	44,500	
Manganese	706.1	
Sodium	518,000	

TW-4		
11/19/2020		
ANALYTE	Conc	Q
Arsenic	30	
Barium	4,612	
Beryllium	22	
Chromium	748	
Copper	1,617	
Iron	542,000	
Lead	352	
Magnesium	170,000	
Manganese	12,050	
Nickel	1,036	
Selenium	18.5	J
Sodium	636,000	
Thallium	7	J

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Antimony	5.54	J
Arsenic	25.66	
Barium	3515	
Chromium	181.8	
Iron	63700	
Lead	10660	
Magnesium	162000	
Manganese	2821	
Mercury	0.9	
Nickel	142.6	
Sodium	728000	
Thallium	1.79	J
Zinc	2693	

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Antimony	4	
Magnesium	44,500	
Manganese	706.1	
Sodium	518,000	

TW-4		
11/19/2020		
ANALYTE	Conc	Q
Arsenic	30	
Barium	4,612	
Beryllium	22	
Chromium	748	
Copper	1,617	
Iron	542,000	
Lead	352	
Magnesium	170,000	
Manganese	12,050	
Nickel	1,036	
Selenium	18.5	J
Sodium	636,000	
Thallium	7	J

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Antimony	5.54	J
Arsenic	25.66	
Barium	3515	
Chromium	181.8	
Iron	63700	
Lead	10660	
Magnesium	162000	
Manganese	2821	
Mercury	0.9	
Nickel	142.6	
Sodium	728000	
Thallium	1.79	J
Zinc	2693	

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Antimony	4	
Magnesium	44,500	
Manganese	706.1	
Sodium	518,000	

TW-4		
11/19/2020		
ANALYTE	Conc	Q
Arsenic	30	
Barium	4,612	
Beryllium	22	
Chromium	748	
Copper	1,617	
Iron	542,000	
Lead	352	
Magnesium	170,000	
Manganese	12,050	
Nickel	1,036	
Selenium	18.5	J
Sodium	636,000	
Thallium	7	J

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Antimony	5.54	J
Arsenic	25.66	
Barium	3515	
Chromium	181.8	
Iron	63700	
Lead	10660	
Magnesium	162000	
Manganese	2821	
Mercury	0.9	
Nickel	142.6	
Sodium	728000	
Thallium	1.79	J
Zinc	2693	

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Antimony	4	
Magnesium	44,500	
Manganese	706.1	
Sodium	518,000	

TW-4		
11/19/2020		
ANALYTE	Conc	Q
Arsenic	30	
Barium	4,612	
Beryllium	22	
Chromium	748	
Copper	1,617	
Iron	542,000	
Lead	352	
Magnesium	170,000	
Manganese	12,050	
Nickel	1,036	
Selenium	18.5	J
Sodium	636,000	
Thallium	7	J

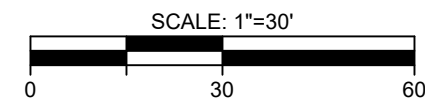
**NYS Education Law**  
 Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS D.P.C. 2021  
 This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS D.P.C. and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS D.P.C.

**REFERENCE**  
 SITE INFORMATION TAKEN FROM "EXISTING CONDITIONS & DEMOLITION PLAN" PREPARED BY NELSON & POPE ENGINEERS & SURVEYORS. DATED 5-02-19.

**NOTE:**  
 THIS PLAN IS FOR LOCATING GW SAMPLING ONLY. OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.

**LEGEND:**  
 GW-1 [Symbol] - GROUNDWATER SAMPLE NUMBER & APPROX. LOCATION  
 [Line] - BCP SITE/PROPERTY BOUNDARY



ANALYTE	NY-AWQS (ug/l)
<b>SVOCs</b>	
Benzo(a)anthracene	0.002
Benzo(a)pyrene	0
Benzo(b)fluoranthene	0.002
Benzo(k)fluoranthene	0.002
Chrysene	0.002
Indeno(1,2,3-c-d)pyrene	0.002
Phenol	1
<b>Total Metals</b>	
Aluminum	NA
Antimony	3
Arsenic	25
Barium	1,000
Beryllium	3
Chromium	50
Copper	200
Iron	300
Lead	25
Magnesium	35,000
Manganese	300
Mercury	0.7
Nickel	100
Sodium	20,000
Selenium	10
Thallium	0.5
Zinc	2,000
<b>Organochlorine Pesticides</b>	
Dieldrin	0.004
4,4'-DDE	0.2
4,4'-DDT	0.2
Chlordane	0.05
<b>PCBs</b>	
Aroclor 1248	0.09
Aroclor 1254	0.09
<b>NY-MCL (ug/l)</b>	
<b>PFA S Compounds</b>	
PFOA	0.01
PFOS	0.01

dwg by: yy  
 chk by: MF  
 scale: 1" = 40'  
 date: 12/01/2020

SOILS / FOUNDATIONS  
 SITE DESIGN  
 ENVIRONMENTAL

**SESI**  
 CONSULTING ENGINEERS D.P.C.

12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

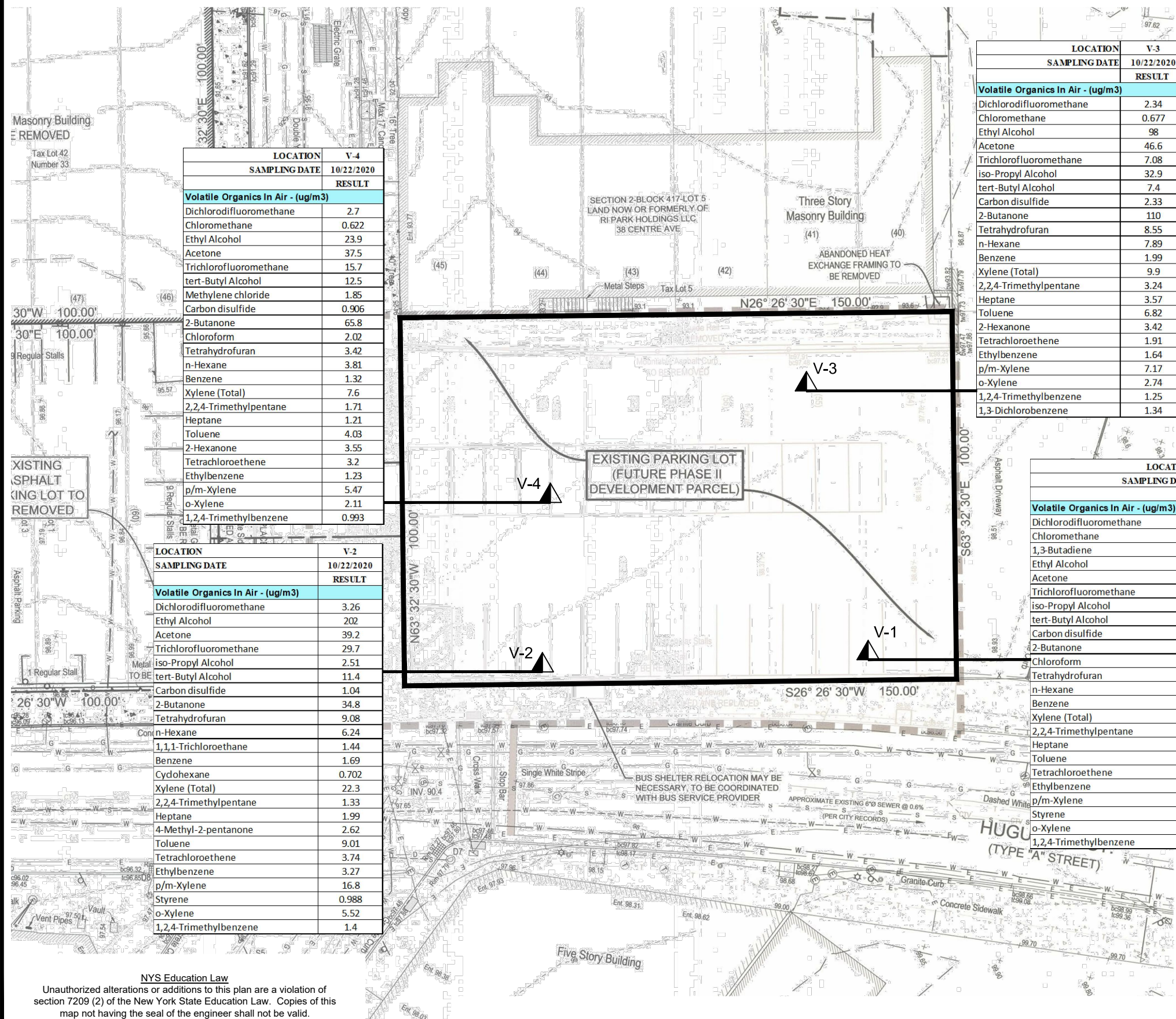
329 HUGUENOT STREET  
 NEW ROCHELLE, NEW YORK

GROUNDWATER SAMPLING  
 RESULTS PLAN

job no: 10785  
 drawing no:

**FIG-2.3**





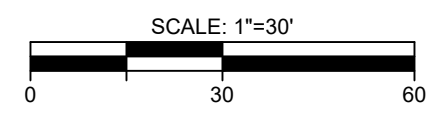
LOCATION	V-4
SAMPLING DATE	10/22/2020
RESULT	
<b>Volatile Organics In Air - (ug/m3)</b>	
Dichlorodifluoromethane	2.7
Chloromethane	0.622
Ethyl Alcohol	23.9
Acetone	37.5
Trichlorofluoromethane	15.7
tert-Butyl Alcohol	12.5
Methylene chloride	1.85
Carbon disulfide	0.906
2-Butanone	65.8
Chloroform	2.02
Tetrahydrofuran	3.42
n-Hexane	3.81
Benzene	1.32
Xylene (Total)	7.6
2,2,4-Trimethylpentane	1.71
Heptane	1.21
Toluene	4.03
2-Hexanone	3.55
Tetrachloroethene	3.2
Ethylbenzene	1.23
p/m-Xylene	5.47
o-Xylene	2.11
1,2,4-Trimethylbenzene	0.993

LOCATION	V-2
SAMPLING DATE	10/22/2020
RESULT	
<b>Volatile Organics In Air - (ug/m3)</b>	
Dichlorodifluoromethane	3.26
Ethyl Alcohol	202
Acetone	39.2
Trichlorofluoromethane	29.7
iso-Propyl Alcohol	2.51
tert-Butyl Alcohol	11.4
Carbon disulfide	1.04
2-Butanone	34.8
Tetrahydrofuran	9.08
n-Hexane	6.24
1,1,1-Trichloroethane	1.44
Benzene	1.69
Cydohexane	0.702
Xylene (Total)	22.3
2,2,4-Trimethylpentane	1.33
Heptane	1.99
4-Methyl-2-pentanone	2.62
Toluene	9.01
Tetrachloroethene	3.74
Ethylbenzene	3.27
p/m-Xylene	16.8
Styrene	0.988
o-Xylene	5.52
1,2,4-Trimethylbenzene	1.4

LOCATION	V-3
SAMPLING DATE	10/22/2020
RESULT	
<b>Volatile Organics In Air - (ug/m3)</b>	
Dichlorodifluoromethane	2.34
Chloromethane	0.677
Ethyl Alcohol	98
Acetone	46.6
Trichlorofluoromethane	7.08
iso-Propyl Alcohol	32.9
tert-Butyl Alcohol	7.4
Carbon disulfide	2.33
2-Butanone	110
Tetrahydrofuran	8.55
n-Hexane	7.89
Benzene	1.99
Xylene (Total)	9.9
2,2,4-Trimethylpentane	3.24
Heptane	3.57
Toluene	6.82
2-Hexanone	3.42
Tetrachloroethene	1.91
Ethylbenzene	1.64
p/m-Xylene	7.17
o-Xylene	2.74
1,2,4-Trimethylbenzene	1.25
1,3-Dichlorobenzene	1.34

LOCATION	V-1
SAMPLING DATE	10/22/2020
RESULT	
<b>Volatile Organics In Air - (ug/m3)</b>	
Dichlorodifluoromethane	2.68
Chloromethane	0.456
1,3-Butadiene	0.56
Ethyl Alcohol	188
Acetone	13.8
Trichlorofluoromethane	9.33
iso-Propyl Alcohol	2.08
tert-Butyl Alcohol	3.02
Carbon disulfide	9.09
2-Butanone	8.23
Chloroform	1.43
Tetrahydrofuran	4.9
n-Hexane	9.97
Benzene	1.41
Xylene (Total)	19.7
2,2,4-Trimethylpentane	1.01
Heptane	1.98
Toluene	6.56
Tetrachloroethene	2.43
Ethylbenzene	2.95
p/m-Xylene	14.9
Styrene	0.971
o-Xylene	4.82
1,2,4-Trimethylbenzene	1.81

**LEGEND:**  
 V-1 ▲ - SOIL VAPOR SAMPLE NUMBER & APPROX. LOCATION  
 ——— - BCP SITE/PROPERTY BOUNDARY



**NYS Education Law**  
 Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS D.P.C. 2021  
 This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS D.P.C. and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS D.P.C.

**REFERENCE**  
 SITE INFORMATION TAKEN FROM "EXISTING CONDITIONS & DEMOLITION PLAN" PREPARED BY NELSON & POPE ENGINEERS & SURVEYORS. DATED 5-02-19.

**NOTE:**  
 THIS PLAN IS FOR LOCATING SOIL VAPOR SAMPLING ONLY. OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.

dwg by: yy  
 chk by: MF  
 scale: 1" = 40'  
 date: 03/03/2021

**SESI**  
 CONSULTING ENGINEERS D.P.C.  
 SOILS / FOUNDATIONS  
 SITE DESIGN  
 ENVIRONMENTAL  
 12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

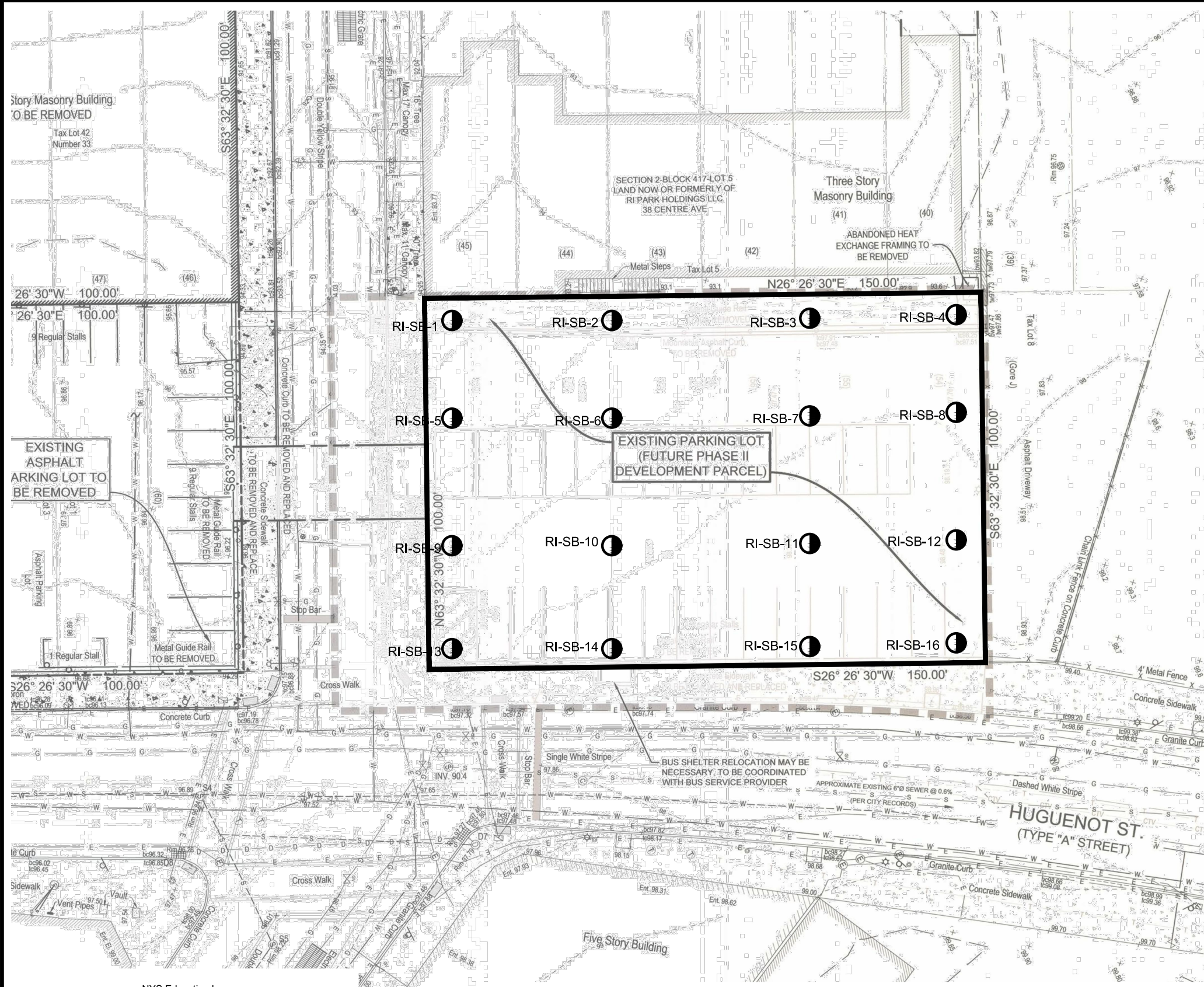
329 HUGUENOT STREET  
 NEW ROCHELLE, NEW YORK  
**SOIL VAPOR SAMPLING RESULTS PLAN**

job no: 10785  
 drawing no:

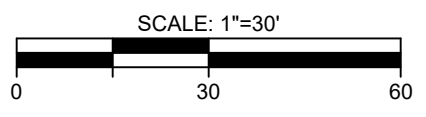
# FIG-2.4



N:\ACAD\11571\CAD\RI\11571 - FIG - 3.1 - PROPOSED SOIL BORING LOCATION PLAN.DWG 07/26/21 10:36:40AM, aas, LAYOUT:FIG-3.1



**LEGEND:**  
 RI-SV-1 - PROPOSED RI SOIL BORING LOCATION  
 - BCP SITE/PROPERTY BOUNDARY



**NOTE:**  
 THIS PLAN IS FOR LOCATING BORINGS ONLY.  
 OTHER SITE WORK SHOWN HERE IS NOT  
 INTENDED FOR CONSTRUCTION.

**REFERENCE**  
 SITE INFORMATION TAKEN FROM "EXISTING CONDITIONS & DEMOLITION PLAN"  
 PREPARED BY NELSON & POPE ENGINEERS & SURVEYORS. DATED 5-02-19.

**NYS Education Law**  
 Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.  
 © SESI CONSULTING ENGINEERS D.P.C. 2021  
 This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS D.P.C. and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS D.P.C.

dwg by: aas  
 chk by: JAM  
 scale: 1" = 40'  
 date: 02/04/2021

**SESI**  
 CONSULTING ENGINEERS D.P.C.  
 SOILS / FOUNDATIONS  
 SITE DESIGN  
 ENVIRONMENTAL  
 12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

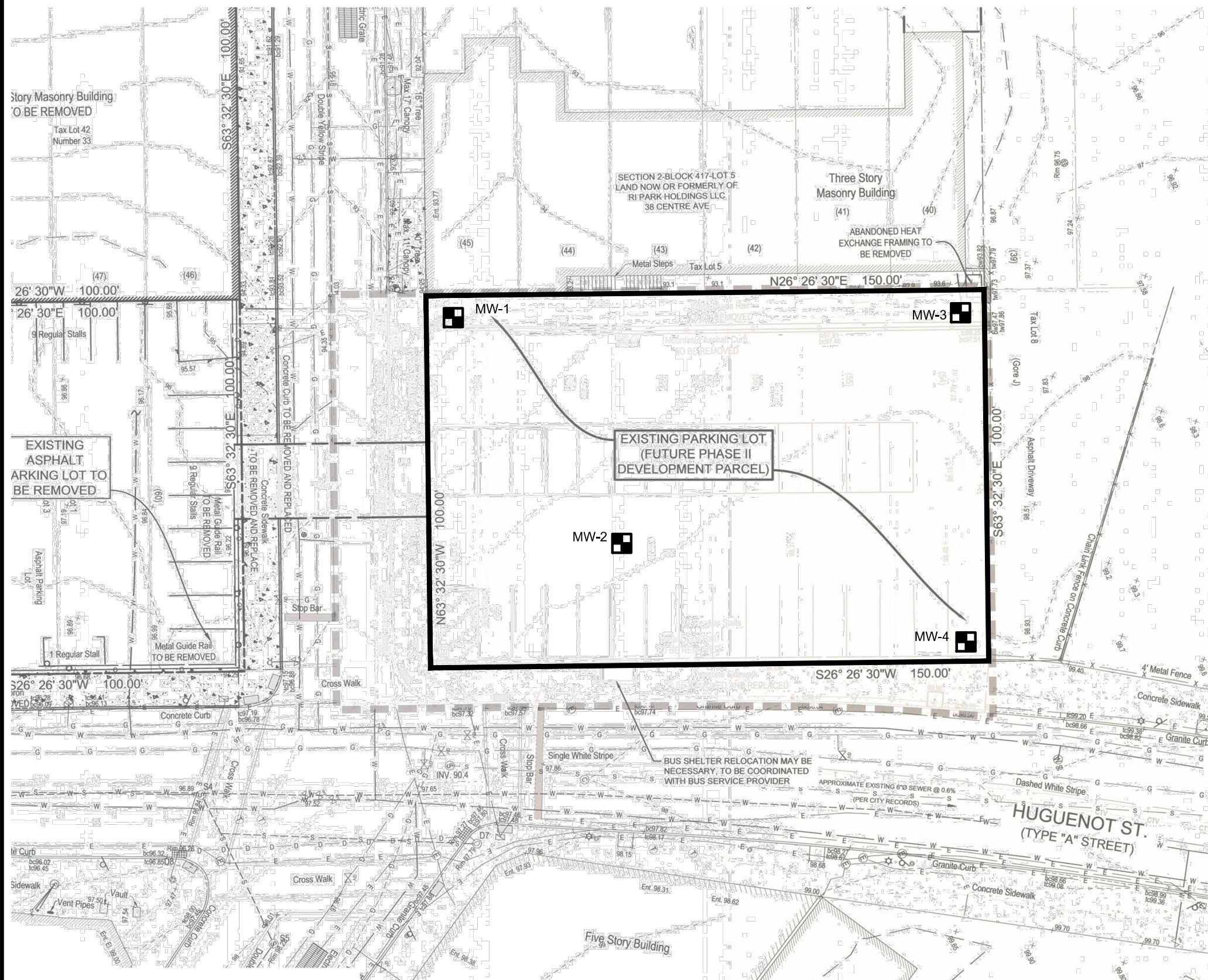
329 HUGUENOT STREET  
 NEW ROCHELLE, NEW YORK  
 REMEDIAL INVESTIGATION  
 PROPOSED SOIL BORING LOCATION PLAN

job no: 11571  
 drawing no:

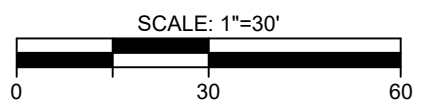
**FIG-3.1**



N:\ACAD\11571\CAD\RI\11571 - FIG - 3.2 - PROPOSED MW LOCATION PLAN.DWG 07/26/21 10:36:27AM, aas, LAYOUT:FIG-3.2



- LEGEND:**
- MW-1 - PROPOSED RI MONITORING WELL LOCATION
  - BCP SITE/PROPERTY BOUNDARY



**NOTE:**  
THIS PLAN IS FOR LOCATING BORINGS ONLY.  
OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.

**REFERENCE**  
SITE INFORMATION TAKEN FROM "EXISTING CONDITIONS & DEMOLITION PLAN"  
PREPARED BY NELSON & POPE ENGINEERS & SURVEYORS. DATED 5-02-19.

**NYS Education Law**  
Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS D.P.C. 2021  
This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS D.P.C. and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS D.P.C.

dwg by: aas  
chk by: JAM  
scale: 1" = 40'  
date: 02/04/2021

**SESI**  
CONSULTING ENGINEERS D.P.C.  
SOILS / FOUNDATIONS  
SITE DESIGN  
ENVIRONMENTAL  
12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

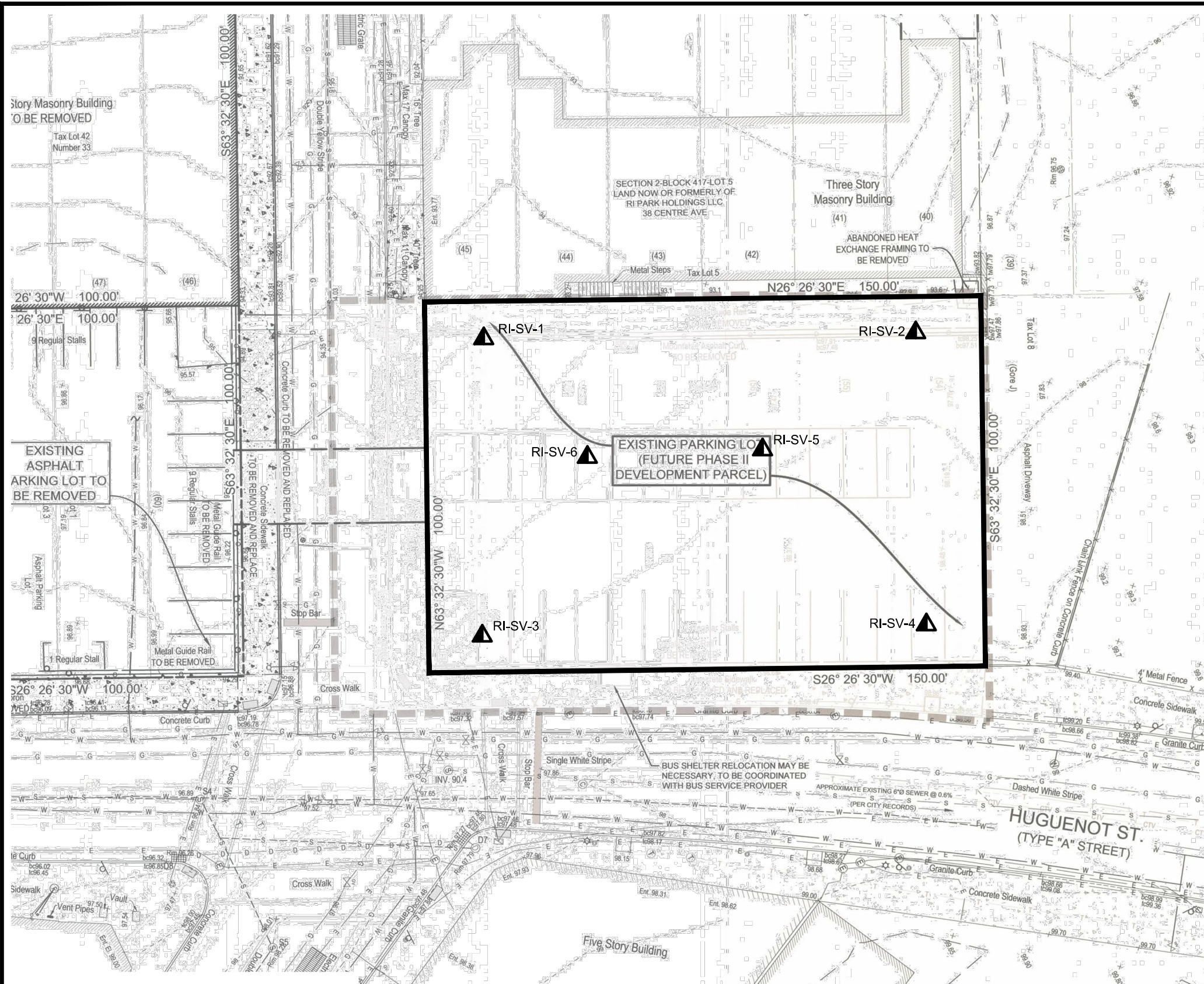
329 HUGUENOT STREET  
NEW ROCHELLE, NEW YORK  
REMEDIAL INVESTIGATION  
PROPOSED MONITORING WELL  
LOCATION PLAN

job no: 11571  
drawing no:

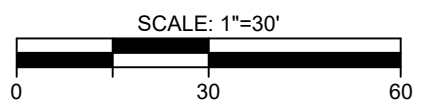
**FIG-3.2**



N:\ACAD\11571\CAD\RI\11571 - FIG - 3.3 - PROPOSED SOIL VAPOR.DWG 07/26/21 09:44:42AM, aas, LAYOUT:FIG-3.3



- LEGEND:**
- RI-SV-4 ▲ - PROPOSED RI SOIL VAPOR LOCATION
  - BCP SITE/PROPERTY BOUNDARY



**NYS Education Law**  
 Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS D.P.C. 2021  
 This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS D.P.C. and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS D.P.C.

**REFERENCE**  
 SITE INFORMATION TAKEN FROM "EXISTING CONDITIONS & DEMOLITION PLAN" PREPARED BY NELSON & POPE ENGINEERS & SURVEYORS. DATED 5-02-19.

**NOTE:**  
 THIS PLAN IS FOR LOCATING BORINGS ONLY. OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.

dwg by: aas  
 chk by: JAM  
 scale: 1" = 40'  
 date: 07/26/2021

**SESI**  
 CONSULTING ENGINEERS D.P.C.  
 SOILS / FOUNDATIONS  
 SITE DESIGN  
 ENVIRONMENTAL

12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

329 HUGUENOT STREET  
 NEW ROCHELLE, NEW YORK

REMEDIAL INVESTIGATION  
 PROPOSED SOIL VAPOR LOCATION PLAN

job no: 11571  
 drawing no:

**FIG-3.3**

**APPENDIX B:  
PREVIOUS ENVIRONMENTAL REPORTS  
(ELECTRONIC)**



**Phase II Environmental Site Assessment Report**

**FOR**

**Centre Avenue Development - North  
327-329 Huguenot Street  
New Rochelle, Westchester County, New York**

**Prepared For:**

**RFMCH Huguenot Property Owner LLC, RFMCH Huguenot Property Owner II LLC and  
RFMCH Huguenot Development Partners II LLC  
7 Renaissance Square, 4th Floor  
White Plains, NY, 10601**

**Prepared By:**

**SESI CONSULTING ENGINEERS, DPC  
12A Maple Avenue  
Pine Brook, NJ 07058**

**DATE:**

**January 14, 2021**

---

**Fuad Dahan, P.E.**

**NY Lic. No. 10394**

# Table of Contents

<b>1.0 INTRODUCTION</b> .....	1
1.1 Recognized Environmental Concerns.....	1
1.2 Site Settings .....	2
1.3 Proposed Development.....	2
<b>2.0 SUBSURFACE INVESTIGATION</b> .....	3
2.1 Site Geology.....	3
2.2 Soil Borings .....	3
2.3 Groundwater Investigation .....	4
2.4 Soil Vapor Investigation.....	5
<b>3.0 ANALYTICAL RESULTS</b> .....	5
3.1 Soil Investigation Results .....	5
3.2 Groundwater Investigation Results.....	8
3.3 Soil Vapor Results .....	9
<b>4.0 CONCLUSIONS AND RECOMMENDATIONS</b> .....	10

## Tables in Report

- Table 2.1: Sample Summary Table
- Table 3.1: Soil Sample Exceedances
- Table 3.2: Groundwater Sample Exceedances

## Tables

- Tables 1-5: Soil Analytical Tables
- Tables 6-10: Groundwater Analytical Tables
- Table 11: Soil Vapor Analytical Table

## Figures

- Figure 1: Site Location Map
- Figure 2: Soil Sample Results Plan
- Figure 3: Groundwater Sampling Results Plan
- Figure 4: Soil Vapor Sampling Location Plan

## Appendices

- Appendix A: Boring Logs
- Appendix B: Laboratory Deliverable Reports

## 1.0 INTRODUCTION

SESI Consulting Engineers (SESI) has conducted this Phase II Environmental Site Assessment (Phase II ESA) on behalf of the Requestor, RFMCH Huguenot Property Owner LLC, RFMCH Huguenot Property Owner II LLC and RFMCH Huguenot Development Partners II LLC, for a 0.35-acre property located at 327-329 Huguenot Street in New Rochelle, Westchester County, New York (referred to as the “Site”). The Site is currently an asphalt-paved parking lot located in an urban setting characterized as mixed-use commercial and residential district, containing residential and commercial use properties and is bound to the north by Trinity Saint Paul’s Episcopal Church, to the east by Huguenot Street, followed by residential and commercial properties, to the south by Centre Avenue, followed by a residential apartment building (currently under construction), and to the west by Rancho Grande Supermarket. **Figure 1** presents a Site Location Map.

SESI completed a Phase I Environmental Site Assessment (ESA) in January 2021 to identify Recognized Environmental Conditions (RECs). The Site formerly contained an apartment building. One REC was identified associated with an offsite gasoline spill at 316 Huguenot Street, located across the street from the Site, as detailed in Section 1.1.

This Phase II Site investigation report complies with the 2015 American Society for Testing and Materials standard (ASTM E1903).

SESI collected soil, soil vapor, and groundwater samples to investigate the identified REC and characterize all environmental media at the Site to determine the Site’s eligibility for admission to the New York State Brownfield Cleanup Program (BCP).

### 1.1 Recognized Environmental Concerns

One (1) REC was identified during our Phase I ESA, as detailed below, subject to further investigation:

- **REC 1 –Offsite Spill Incident:** A spill incident was reported at 316 Huguenot St (across the street from the Site) and involved a spill of gasoline on August 3, 2020. Based on the spill report, the spill was reported based on the discovery of soil contaminated with gasoline during a Phase II environmental assessment. This facility is within 0.01 miles of

the Site and at a higher elevation. Therefore, based on the close proximity and upgradient location of this spill in relation to the Site, it constitutes a REC.

## 1.2 Site Settings

The Site consists of an approximately 14,445-square feet (0.35-acres) property located at 327-329 Huguenot Street in the City of New Rochelle, Westchester County, New York. The Site consists of a parking lot. The Site is bounded to the east by Huguenot Street, to the south by Centre Avenue, to the west by a supermarket, and to the north by a church. The Site is identified on tax map records as Section 2, Block 417, Lot 0001. The Site topography is generally flat and slopes regionally downward to the southwest.

## 1.3 Proposed Development

The planned new construction for the Site will be a multi-unit residential building.



## 2.0 SUBSURFACE INVESTIGATION

### 2.1 Site Geology

Based on soil borings conducted during this investigation and during SESI's geotechnical investigation completed in June 2019, subsurface geology generally consisted of uncontrolled fill from the surface down to depths ranging from 5 to 11 ft bg, followed by natural decomposed rock which extends to depths between 10 and 22 ft bg, beneath which bedrock was encountered. Bedrock consisted of dark gray, weathered, hard, slightly to intensely fractured Gneiss; overlying dark gray, slightly weathered, hard, slightly fractured to moderately fractured Schist, with high angle foliations/banding. Groundwater depths ranged from 16 to 27 ft bg across the Site, indicating that some shallow water-bearing fractures are present in bedrock.

### 2.2 Soil Borings

Twenty-one (21) soil borings, six (6) temporary wells, and four (4) soil vapor points were advanced using a combined direct push Geoprobe<sup>®</sup>/air rotary drill rig. A total of twenty-one (21) soil samples were collected, six (6) groundwater samples were collected and four (4) soil vapor samples were collected. The borings were completed in two separate mobilizations. Eleven (11) soil borings, three (3) temporary wells, and four (4) soil vapor points were conducted between October 22-26, 2020 and an additional 10 borings and 3 temporary wells were conducted between November 18-19, 2020.

Table 2.1 below presents a list of the borings, samples collected, the dates of sampling, installation method, boring depth, location and sample depth rationale, sample media, sample type, and analysis completed. **Figure 2** presents the soil boring locations. Soil boring logs are presented in **Appendix A**. A total of twenty-one (21) soil samples were collected from the borings, delivered under chain-of-custody, and analyzed at Alpha Analytical, Inc., (Alpha) a NYSDEC ELAP-certified laboratory. The soil samples were collected from varying depths based on field screening, which included screening with a Photo Ionization Detector (PID), visual and olfactory observations. All soil samples were collected as discrete grab samples and were not composited.

As noted in the table below, soil samples were analyzed for Target Compound List +30 TIC's/Target Analyte List (TCL+30/TAL) which includes total volatile organic Compounds (VOCs), base neutral acid extractables (BNAs), target analyte list (TAL) metals (23 metals + cyanide), pesticides, and polychlorinated biphenyls (PCB's), as well as PFAS compounds.

Table 2.1 – Sample Summary Table

Location Name	Date	Installation Method	Boring Depth (ft)	Sample Depth (ft)	Sample Media	Analyses
S-1 (2-3)	10/22/2020	Direct Push (Geoprobe®)	12	2-3	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-2 (3-4)	10/22/2020	Direct Push (Geoprobe®)	9	3-4	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-3 (1-2)	10/22/2020	Direct Push (Geoprobe®)	10	1-2	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-4 (4-5)	10/22/2020	Direct Push (Geoprobe®)	10	4-5	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-5 (2-3)	10/22/2020	Direct Push (Geoprobe®)	7	2-3	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-6 (5-6)	10/22/2020	Direct Push (Geoprobe®)	10	5-6	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-7 (5-6)	10/22/2020	Direct Push (Geoprobe®)	10	5-6	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-8 (8-9)	10/22/2020	Direct Push (Geoprobe®)	10	8-9	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-9 (4-5)	10/22/2020	Direct Push (Geoprobe®)	10	4-5	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-10 (6-7)	10/22/2020	Direct Push (Geoprobe®)	9	6-7	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-11 (2-3)	10/22/2020	Direct Push (Geoprobe®)	9	2-3	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-12 (3-4)	11/18/2020	Direct Push (Geoprobe®)	9	3-4	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-13 (5-6)	11/18/2020	Direct Push (Geoprobe®)	9	5-6	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-14 (4-5)	11/18/2020	Direct Push (Geoprobe®)	9	4-5	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-15 (5-6)	11/18/2020	Direct Push (Geoprobe®)	9	5-6	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-16 (4-5)	11/18/2020	Direct Push (Geoprobe®)	9	4-5	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-17 (2-3)	11/18/2020	Direct Push (Geoprobe®)	9	2-3	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-18 (3-4)	11/18/2020	Direct Push (Geoprobe®)	9	3-4	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-19 (2-3)	11/19/2020	Direct Push (Geoprobe®)	9	2-3	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-20 (4-5)	11/19/2020	Direct Push (Geoprobe®)	9	4-5	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
S-21 (3-4)	11/19/2020	Direct Push (Geoprobe®)	9	3-4	Soil	TCL+30/TAL, PFAS, 1,4-Dioxane
Location Name	Date	Installation Method	Well Depth (ft)	Sample Depth (ft)	Sample Media	Analyses
GW-1	10/26/2020	Air Rotary	30	28	Groundwater	TCL+30/TAL, PFAS, 1,4-Dioxane
GW-2	10/26/2020	Air Rotary	25	23	Groundwater	TCL+30/TAL, PFAS, 1,4-Dioxane
GW-3	10/26/2020	Air Rotary	20	18	Groundwater	TCL+30/TAL, PFAS, 1,4-Dioxane
TW-4	11/18/2020	Air Rotary	28	26	Groundwater	TCL+30/TAL, PFAS, 1,4-Dioxane
TW-5	11/18/2020	Air Rotary	27	25	Groundwater	TCL+30/TAL, PFAS, 1,4-Dioxane
TW-6	11/18/2020	Air Rotary	27	25	Groundwater	TCL+30/TAL, PFAS, 1,4-Dioxane
Location Name	Date	Installation Method	Boring Depth (ft)	Sample Depth (ft)	Sample Media	Analyses
V-1	10/22/2020	Direct Push (Geoprobe®)	5	5	Soil Vapor	TO-15
V-2	10/22/2020	Direct Push (Geoprobe®)	5	5	Soil Vapor	TO-15
V-3	10/22/2020	Direct Push (Geoprobe®)	5	5	Soil Vapor	TO-15
V-4	10/22/2020	Direct Push (Geoprobe®)	5	5	Soil Vapor	TO-15
AA-1	10/22/2020	NA	0	0	Ambient Air	TO-15

Notes:

ft - Feet below grade surface.

## 2.3 Groundwater Investigation

Six (6) borings were advanced into bedrock to install temporary monitoring wells GW-1, GW-2, GW-3, and TW-4, TW-5, and TW-6. No groundwater was encountered in overburden soils and groundwater was only encountered within bedrock. The temporary monitoring well locations are provided in **Figure 3**. Groundwater samples were collected from the wells, delivered under chain-

of-custody, and analyzed for TCL+30/TAL, PFAS compounds, 1,4-dioxane, and dissolved metals by Alpha. Sampling was performed using disposable Teflon bailers.

## 2.4 Soil Vapor Investigation

Four (4) soil vapor points were installed via direct push methodologies. The soil samples were collected with 1-L Summa Canisters with flow controllers set for a flow rate of 200 ml/min. Soil vapor point locations are depicted in **Figure 4**. The soil vapor samples were sent to Alpha for EPA TO-15 analysis.

# 3.0 ANALYTICAL RESULTS

## 3.1 Soil Investigation Results

A total of twenty-one (21) soil samples were collected during the two sampling events. The soil sample locations were distributed to cover all areas of the Site. The recovered soil cores from each boring were field screened with a PID and observed for visual and olfactory indications of contamination. Summary tables of the analytical results compared to New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives (USCO), and Restricted Residential Soil Clean-up Objectives (RRSCOs) are presented in attached **Tables 1-5**. The soil sample depths were selected based on the field screening results. The laboratory deliverable reports are included in **Appendix B**. Soil boring locations and a summary of the results are depicted on **Figure 2**. This figure also contains sampling results from several soil samples collected during SESI's geotechnical investigation of the property in June 2019.

Table 3.1 below includes a summary of the soil exceedances of the USCO and RRSCO. Soil samples from 12 of the borings contained PAHs exceeding RRSCOs with 2 samples [S-13(5-6) and S-15(5-6)] with high concentrations. Similarly, metals were detected in most samples above USCOs and in several samples well in excess of RRSCOs, including lead detected at over 2,000 mg/kg in one sample [S-19(2-3)]. In addition, PCBs were identified in one sample [S-2(3-4)] well above the RRSCOs and in several other samples above USCOs. Pesticides exceeding USCOs were identified in almost all soil samples, but in two samples pesticide concentrations were identified exceeding residential SCOs, and one pesticide (DDT) exceeding the RRSCO in one sample, which is four orders of magnitude higher than the USCO. In addition, PFOS was detected in nine samples in excess of the NYSDEC unrestricted use guidance value. No VOCs or 1,4-dioxane were detected in any soil samples.

Table 3.1 - Soil Sample Exceedances

LOCATION				S-1 (2-3)	S-2 (3-4)	S-3 (1-2)	S-4 (4-5)	S-5 (2-3)
SAMPLING DATE				10/22/2020	10/22/2020	10/22/2020	10/22/2020	10/22/2020
SAMPLE DEPTH (ft.)				2-3	3-4	1-2	4-5	2-3
	USCO	RRSCO	Units	Results	Results	Results	Results	Results
<b>Pesticides</b>								
Dieldrin	0.005	0.2	mg/kg	ND	ND	ND	0.0124	0.00319
4,4'-DDE	0.0033	8.9	mg/kg	0.00306IP	0.139	0.011	0.00997	0.123
4,4'-DDD	0.0033	13	mg/kg	ND	0.0118	0.00186J	0.00547	0.0149
4,4'-DDT	0.0033	7.9	mg/kg	0.00664	0.368P	0.0265	0.0188	1.09
<b>Polychlorinated Biphenyls</b>								
Aroclor 1254	0.1	1	mg/kg	0.0635P	4.64	0.406	0.0149J	0.112
PCBs, Total	0.1	1	mg/kg	0.0635	4.64	0.406	0.0149J	0.112
<b>Semivolatile Organics</b>								
Benzo(a)anthracene	1	1	mg/kg	0.82	1.4	0.33	0.44	0.25
Benzo(a)pyrene	1	1	mg/kg	0.93	1.3	0.44	0.66	0.34
Benzo(b)fluoranthene	1	1	mg/kg	1.1	1.4	0.49	0.72	0.4
Chrysene	1	3.9	mg/kg	0.9	1.6	0.35	0.52	0.29
Indeno(1,2,3-cd)pyrene	0.5	0.5	mg/kg	0.54	0.64	0.27	0.41	0.22
<b>Total Metals</b>								
Barium, Total	350	400	mg/kg	49.3	774	92.4	86.4	409
Lead, Total	63	400	mg/kg	10.8	1190	28.7	18.7	323
Mercury, Total	0.18	0.81	mg/kg	ND	0.258	ND	0.052J	0.113
Nickel, Total	30	310	mg/kg	10.6	6.53	14	50.5	6.85
Zinc, Total	109	10000	mg/kg	17.8	604	49.9	35.4	178
LOCATION				S-6 (5-6)	S-7 (5-6)	S-9 (4-5)	S-10 (6-7)	S-11 (2-3)
SAMPLING DATE				10/22/2020	10/22/2020	10/22/2020	10/22/2020	10/22/2020
SAMPLE DEPTH (ft.)				5-6	5-6	4-5	6-7	2-3
	USCO	RRSCO	Units	Results	Results	Results	Results	Results
<b>Organochlorine Pesticides by GC</b>								
Dieldrin	0.005	0.2	mg/kg	0.00349	ND	0.00842	0.000892JIP	ND
4,4'-DDE	0.0033	8.9	mg/kg	0.0114	ND	0.0102	0.00658	0.0213
4,4'-DDD	0.0033	13	mg/kg	0.00162J	ND	0.00384	0.00133JIP	0.00202
4,4'-DDT	0.0033	7.9	mg/kg	0.00717	0.00646	0.042	0.00877IP	0.0424
<b>Semivolatile Organics by GC/MS</b>								
Benzo(a)anthracene	1	1	mg/kg	0.22	0.26	2.3	0.48	0.9
Benzo(a)pyrene	1	1	mg/kg	0.2	0.23	2.4	0.4	1
Benzo(b)fluoranthene	1	1	mg/kg	0.21	0.24	2.9	0.39	1.2
Benzo(k)fluoranthene	0.8	3.9	mg/kg	0.082J	0.078J	1	0.1J	0.4
Chrysene	1	3.9	mg/kg	0.25	0.27	2.2	0.61	1
Dibenzo(a,h)anthracene	0.33	0.33	mg/kg	0.028J	0.033J	0.35	0.059J	0.16
Indeno(1,2,3-cd)pyrene	0.5	0.5	mg/kg	0.098J	0.11J	1.4	0.16	0.6
<b>Total Metals</b>								
Lead, Total	63	400	mg/kg	319	4.84	8.16	299	70.4

LOCATION				S-12 (3-4)	S-13 (5-6)	S-14 (4-5)	S-15 (5-6)	S-16 (4-5)
SAMPLING DATE				11/18/2020	11/18/2020	11/18/2020	11/18/2020	11/18/2020
SAMPLE DEPTH (ft.)				3-4	5-6	4-5	5-6	4-5
	USCO	RRSCO	Units	Results	Results	Results	Results	Results
<b>Organochlorine Pesticides by GC</b>								
Dieldrin	0.005	0.2	mg/kg	0.00975	0.0172IP	0.00385	0.00696	0.0124
4,4'-DDE	0.0033	8.9	mg/kg	0.0296	0.0993	0.18	0.0183IP	0.106
4,4'-DDD	0.0033	13	mg/kg	0.00833	0.02	0.00668	0.00543	0.0164
4,4'-DDT	0.0033	7.9	mg/kg	0.0574	0.509	0.209	0.0955	0.34
cis-Chlordane	0.094	4.2	mg/kg	0.0225	0.418IP	0.00522	0.0074	0.0149
<b>Semivolatile Organics by GC/MS</b>								
Benzo(a)anthracene	1	1	mg/kg	2.1	30	0.14	6.2	0.38
Benzo(a)pyrene	1	1	mg/kg	2.5	24	0.16	7	0.58
Benzo(b)fluoranthene	1	1	mg/kg	2.9	28	0.19	7.6	0.6
Benzo(k)fluoranthene	0.8	3.9	mg/kg	0.93	9.6	0.068J	2.8	0.18
Chrysene	1	3.9	mg/kg	2.5	26	0.16	6.6	0.44
Dibenzo(a,h)anthracene	0.33	0.33	mg/kg	0.37	4.1	0.024J	1	0.084J
Indeno(1,2,3-cd)pyrene	0.5	0.5	mg/kg	1.4	14	0.099J	3.9	0.33
3-Methylphenol/4-Methylphenol	0.33	100	mg/kg	0.031J	0.47J	ND	0.033J	ND
<b>Total Metals</b>								
Barium, Total	350	400	mg/kg	95.6	776	70.5	172	187
Cadmium, Total	2.5	4.3	mg/kg	0.647J	2.6	0.515J	0.289J	0.598J
Lead, Total	63	400	mg/kg	99.2	964	16.1	128	251
Mercury, Total	0.18	0.81	mg/kg	ND	1.82	0.068J	0.099	0.081
Zinc, Total	109	10000	mg/kg	101	1030	85.9	441	186

LOCATION				S-17 (2-3)	S-18 (3-4)	S-19 (2-3)	S-20 (4-5)	S-21 (3-4)
SAMPLING DATE				11/18/2020	11/18/2020	11/19/2020	11/19/2020	11/19/2020
SAMPLE DEPTH (ft.)				2-3	3-4	2-3	4-5	3-4
	USCO	RRSCO	Units	Results	Results	Results	Results	Results
<b>Organochlorine Pesticides by GC</b>								
Dieldrin	0.005	0.2	mg/kg	ND	ND	0.0103	0.144	0.00558
4,4'-DDE	0.0033	8.9	mg/kg	0.00583	ND	0.0284	5.24	0.0103
4,4'-DDD	0.0033	13	mg/kg	ND	ND	ND	0.948	ND
4,4'-DDT	0.0033	7.9	mg/kg	0.0131IP	0.00936IP	0.1	19.4	0.044
cis-Chlordane	0.094	4.2	mg/kg	0.00535	0.00691	0.0174	0.33IP	0.00608
<b>Polychlorinated Biphenyls by GC</b>								
Aroclor 1254	0.1	1	mg/kg	0.223	0.261	0.0424	0.0241J	0.00432J
PCBs, Total	0.1	1	mg/kg	0.223	0.261	0.0424	0.0241J	0.00432J
<b>Semivolatile Organics by GC/MS</b>								
Benzo(a)anthracene	1	1	mg/kg	0.84	1.5	0.51	1	1.2
Benzo(a)pyrene	1	1	mg/kg	0.86	1.2	0.45	0.94	1.2
Benzo(b)fluoranthene	1	1	mg/kg	0.95	1.5	0.53	1.1	1.3
Chrysene	1	3.9	mg/kg	0.78	1.8	0.63	1.2	1.5
Indeno(1,2,3-cd)pyrene	0.5	0.5	mg/kg	0.58J	0.75	0.24	0.6	0.63
<b>Total Metals</b>								
Arsenic, Total	13	16	mg/kg	3.78	2.75	16.1	3.94	7.13
Barium, Total	350	400	mg/kg	364	75.3	713	411	312
Lead, Total	63	400	mg/kg	203	21.7	2530	615	293
Mercury, Total	0.18	0.81	mg/kg	0.417	ND	0.43	0.119	0.203
Zinc, Total	109	10000	mg/kg	246	33.9	997	313	231

Notes:

mg/kg – milligrams per kilogram

Yellow highlight indicates result exceeding the USCO

Red highlight indicates a result exceeding the RRSCO

**BOLD** – Constituent exceeds at least one SCO

ND – Constituent not detected

### 3.2 Groundwater Investigation Results

Six (6) groundwater samples were collected from temporary wells for TCL/TAL+30, dissolved metals, 1,4-dioxane, and PFAS analysis. Groundwater analytical results summary tables are included in **Tables 6-10** attached, and the laboratory deliverable reports are included in **Appendix B**. A groundwater sample location plan and summary of the results is shown in **Figure 3**.

Table 3.2 below presents a summary of the groundwater exceedances of the NYSDEC Technical and Administrative Guidance Series 1.1.1 Ambient Groundwater Quality Criteria (AWQS) and Groundwater Effluent Limitations Criteria (TOGS-GA).

PAHs were identified in 5 of 6 groundwater samples exceeding the AWQS. Pesticides were identified in the 3 temp wells installed in the southern portion of the Site above the AWQS, and PCBs were identified in one sample exceeding AWQS. Total (unfiltered) metals analysis indicated numerous metals exceeding AWQS, but this is attributed to high sample turbidity from temporary wells. To account for this, the samples were also analyzed for dissolved metals, and only four metals including magnesium, manganese, iron, and sodium, which are primarily naturally-occurring, were present above AWQS in some or all temp wells. PFOA and PFOS were identified in 3 wells exceeding the NYSDEC maximum contaminant level (MCL) of 10 ng/L. VOCs were not detected in excess of AWQS or TOGS, and 1,4-dioxane was not detected in any groundwater samples. None of the identified groundwater contaminants are known to be denser than water, and thus it is not likely that higher contaminant concentrations would be identified in deeper bedrock fractures.

Table 3.2 – Groundwater Sample Exceedances

LOCATION			GW-1	GW-2	GW-3	TW-4	TW-5	TW-6
SAMPLING DATE			10/26/2020	10/26/2020	10/26/2020	11/18/2020	11/18/2020	11/19/2020
SAMPLE TYPE			WATER	WATER	WATER	WATER	WATER	WATER
	NY-AWQS	Units	Results	Results	Results	Results	Results	Results
<b>Pesticides</b>								
Dieldrin	0.004	ug/l	ND	0.047	0.016J	ND	ND	0.136
4,4'-DDE	0.2	ug/l	ND	0.231	0.113	0.01J	ND	0.556
4,4'-DDT	0.2	ug/l	ND	1.08	0.41	ND	ND	1.04
Chlordane	0.05	ug/l	ND	0.766	0.387	ND	ND	1.2P
<b>Polychlorinated Biphenyls</b>								
Aroclor 1248	0.09	ug/l	ND	0.723	ND	ND	ND	ND
Aroclor 1254	0.09	ug/l	0.048J	0.214	0.062J	ND	ND	ND
PCBs, Total	0.09	ug/l	0.048J	0.986J	0.062J	ND	ND	ND
<b>Semivolatile Organics</b>								
Phenol	1	ug/l	ND	ND	ND	6.2	0.72J	1.9J
<b>Semivolatile Organics</b>								
Benzo(a)anthracene	0.002	ug/l	0.8	4.9	0.54	0.04J	ND	0.06J
Benzo(a)pyrene	0	ug/l	0.86	5	0.54	0.03J	ND	0.06J
Benzo(b)fluoranthene	0.002	ug/l	1.1	5.7	0.58	0.04J	ND	0.07J
Benzo(k)fluoranthene	0.002	ug/l	0.3	1.7	0.19	0.02J	ND	0.02J
Chrysene	0.002	ug/l	0.9	5.9	0.63	0.02J	ND	0.05J
Indeno(1,2,3-cd)pyrene	0.002	ug/l	0.63	3.6	0.38	0.03J	ND	0.05J
<b>Dissolved Metals</b>								
Antimony, Dissolved	3	ug/l	ND	4.15	1.38J	0.68J	ND	2.64J
Iron, Dissolved	300	ug/l	76400	ND	65.6	22.7J	ND	46.7J
Magnesium, Dissolved	35000	ug/l	118000	44500	228000	53200	158000	117000
Manganese, Dissolved	300	ug/l	6889	706.1	199.2	2281	878.9	171.1
Sodium, Dissolved	20000	ug/l	147000	518000	1010000	615000	880000	946000

Notes:

ND – compound not detected  
Yellow Highlight – exceeds AWQS  
J – an estimated value  
Ug/l – micrograms per liter

### 3.3 Soil Vapor Results

Four (4) soil vapor samples were also collected at the Site. Soil vapor analytical results did not identify any exceedances to the NYS Department of Health (DOH) Sub-Slab Vapor Concentrations Criteria (SSCs) Matrices A, B and C. Soil vapor sample locations are shown on **Figure 4**. The attached **Table 11** presents the soil vapor analytical results.

## **4.0 CONCLUSIONS AND RECOMMENDATIONS**

The investigation results indicate the presence of contamination in excess of NYSDEC SCOs and GVs in the site soil and in excess of AWQS, TOGS, and MCLs in groundwater. Soil vapor concentrations were not identified above NYSDOH criteria. Additional investigation and eventually remediation of the identified contamination should be completed before the development on the Site.



## TABLES

Table 1  
Soil Sampling Analytical Results  
Volatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-1 (2-3)		S-2 (3-4)		S-3 (1-2)		S-4 (4-5)		S-5 (2-3)			
SAMPLING DATE	10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020			
LAB SAMPLE ID	L2046080-01		L2046080-02		L2046080-03		L2046080-04		L2046080-05			
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL			
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Volatile Organics By GC/MS - (mg/kg)</b>												
Methylene chloride	100	0.05	ND		ND		ND		ND		ND	
1,1-Dichloroethane	26	0.27	ND		ND		ND		ND		ND	
Chloroform	49	0.37	ND		ND		ND		ND		ND	
Carbon tetrachloride	2.4	0.76	ND		ND		ND		ND		ND	
1,2-Dichloropropane	NC	NC	ND		ND		ND		ND		ND	
Dibromochloromethane	NC	NC	ND		ND		ND		ND		ND	
1,1,2-Trichloroethane	NC	NC	ND		ND		ND		ND		ND	
Tetrachloroethene	19	1.3	ND		ND		ND		ND		ND	
Chlorobenzene	100	1.1	ND		ND		ND		ND		ND	
Trichlorofluoromethane	NC	NC	ND		ND		ND		ND		ND	
1,2-Dichloroethane	3.1	0.02	ND		ND		ND		ND		ND	
1,1,1-Trichloroethane	100	0.68	ND		ND		ND		ND		ND	
Bromodichloromethane	NC	NC	ND		ND		ND		ND		ND	
trans-1,3-Dichloropropene	NC	NC	ND		ND		ND		ND		ND	
cis-1,3-Dichloropropene	NC	NC	ND		ND		ND		ND		ND	
1,3-Dichloropropene, Total	NC	NC	ND		ND		ND		ND		ND	
1,1-Dichloropropene	NC	NC	ND		ND		ND		ND		ND	
Bromoform	NC	NC	ND		ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	NC	NC	ND		ND		ND		ND		ND	
Benzene	4.8	0.06	ND		ND		ND		ND		ND	
Toluene	100	0.7	ND		ND		ND		ND		ND	
Ethylbenzene	41	1	0.0021		ND		ND		ND		ND	
Chloromethane	NC	NC	ND		ND		ND		ND		ND	
Bromomethane	NC	NC	ND		ND		ND		ND		ND	
Vinyl chloride	0.9	0.02	ND		ND		ND		ND		ND	
Chloroethane	NC	NC	ND		ND		ND		ND		ND	
1,1-Dichloroethene	100	0.33	ND		ND		ND		ND		ND	
trans-1,2-Dichloroethene	100	0.19	ND		ND		ND		ND		ND	
Trichloroethene	21	0.47	ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	100	1.1	ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	49	2.4	ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	1.8	ND		ND		ND		ND		ND	
Methyl tert butyl ether	100	0.93	ND		ND		ND		ND		ND	
p/m-Xylene	NC	NC	0.013		ND		ND		ND		ND	
o-Xylene	NC	NC	0.0054		ND		ND		ND		ND	
Xylenes, Total	100	0.26	0.018		ND		ND		ND		ND	
cis-1,2-Dichloroethene	100	0.25	ND		ND		ND		ND		ND	
1,2-Dichloroethene, Total	NC	NC	ND		ND		ND		ND		ND	
Dibromomethane	NC	NC	ND		ND		ND		ND		ND	
Styrene	NC	NC	ND		ND		ND		ND		ND	
Dichlorodifluoromethane	NC	NC	ND		ND		ND		ND		ND	
Acetone	100	0.05	ND		ND		ND		ND		ND	
Carbon disulfide	NC	NC	ND		ND		ND		ND		ND	
2-Butanone	100	0.12	ND		ND		ND		ND		ND	
Vinyl acetate	NC	NC	ND		ND		ND		ND		ND	
4-Methyl-2-pentanone	NC	NC	ND		ND		ND		ND		ND	
1,2,3-Trichloropropane	NC	NC	ND		ND		ND		ND		ND	
2-Hexanone	NC	NC	ND		ND		ND		ND		ND	
Bromochloromethane	NC	NC	ND		ND		ND		ND		ND	
2,2-Dichloropropane	NC	NC	ND		ND		ND		ND		ND	
1,2-Dibromoethane	NC	NC	ND		ND		ND		ND		ND	
1,3-Dichloropropane	NC	NC	ND		ND		ND		ND		ND	
1,1,1,2-Tetrachloroethane	NC	NC	ND		ND		ND		ND		ND	
Bromobenzene	NC	NC	ND		ND		ND		ND		ND	
n-Butylbenzene	100	12	ND		ND		ND		ND		ND	
sec-Butylbenzene	100	11	ND		ND		ND		ND		ND	
tert-Butylbenzene	100	5.9	ND		ND		ND		ND		ND	
o-Chlorotoluene	NC	NC	ND		ND		ND		ND		ND	
p-Chlorotoluene	NC	NC	ND		ND		ND		ND		ND	
1,2-Dibromo-3-chloropropane	NC	NC	ND		ND		ND		ND		ND	
Hexachlorobutadiene	NC	NC	ND		ND		ND		ND		ND	
Isopropylbenzene	NC	NC	ND		ND		ND		ND		ND	
p-Isopropyltoluene	NC	NC	ND		ND		ND		ND		ND	
Naphthalene	100	12	ND		ND		ND	-	ND		ND	
Acrylonitrile	NC	NC	ND		ND		ND		ND		ND	
n-Propylbenzene	100	3.9	ND		ND		ND		ND		ND	
1,2,3-Trichlorobenzene	NC	NC	ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	NC	NC	ND		ND		ND		ND		ND	
1,3,5-Trimethylbenzene	52	8.4	ND		ND		ND		ND		ND	

Table 1  
 Soil Sampling Analytical Results  
 Volatile Organic Compounds  
 327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-1 (2-3)	S-2 (3-4)	S-3 (1-2)	S-4 (4-5)	S-5 (2-3)						
SAMPLING DATE		10/22/2020	10/22/2020	10/22/2020	10/22/2020	10/22/2020						
LAB SAMPLE ID		L2046080-01	L2046080-02	L2046080-03	L2046080-04	L2046080-05						
SAMPLE TYPE		SOIL	SOIL	SOIL	SOIL	SOIL						
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Volatile Organics By GC/MS - (mg/kg)</b>												
1,2,4-Trimethylbenzene	52	3.6	ND		ND		ND		ND		ND	
1,4-Dioxane	13	0.1	ND		ND		ND		ND		ND	
p-Diethylbenzene	NC	NC	ND		0.00043	J	ND		ND		ND	
p-Ethyltoluene	NC	NC	ND		ND		ND		ND		ND	
1,2,4,5-Tetramethylbenzene	NC	NC	ND		ND		ND		ND		ND	
Ethyl ether	NC	NC	ND		ND		ND		ND		ND	
trans-1,4-Dichloro-2-butene	NC	NC	ND		ND		ND		ND		ND	
Total VOCs	NC	NC	0.0205	-	0.00043	-	ND		-	-	-	-

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

Table 1  
Soil Sampling Analytical Results  
Volatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-6 (5-6)	S-7 (5-6)			
SAMPLING DATE		10/22/2020	10/22/2020			
LAB SAMPLE ID		L2046080-06	L2046080-07			
SAMPLE TYPE		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q
<b>Volatile Organics By GC/MS - (mg/kg)</b>						
Methylene chloride	100	0.05	ND		ND	
1,1-Dichloroethane	26	0.27	ND		ND	
Chloroform	49	0.37	ND		ND	
Carbon tetrachloride	2.4	0.76	ND		ND	
1,2-Dichloropropane	NC	NC	ND		ND	
Dibromochloromethane	NC	NC	ND		ND	
1,1,2-Trichloroethane	NC	NC	ND		ND	
Tetrachloroethene	19	1.3	ND		ND	
Chlorobenzene	100	1.1	ND		ND	
Trichlorofluoromethane	NC	NC	ND		ND	
1,2-Dichloroethane	3.1	0.02	ND		ND	
1,1,1-Trichloroethane	100	0.68	ND		ND	
Bromodichloromethane	NC	NC	ND		ND	
trans-1,3-Dichloropropene	NC	NC	ND		ND	
cis-1,3-Dichloropropene	NC	NC	ND		ND	
1,3-Dichloropropene, Total	NC	NC	ND		ND	
1,1-Dichloropropene	NC	NC	ND		ND	
Bromoform	NC	NC	ND		ND	
1,1,2,2-Tetrachloroethane	NC	NC	ND		ND	
Benzene	4.8	0.06	ND		ND	
Toluene	100	0.7	ND		ND	
Ethylbenzene	41	1	ND		ND	
Chloromethane	NC	NC	ND		ND	
Bromomethane	NC	NC	ND		ND	
Vinyl chloride	0.9	0.02	ND		ND	
Chloroethane	NC	NC	ND		ND	
1,1-Dichloroethene	100	0.33	ND		ND	
trans-1,2-Dichloroethene	100	0.19	ND		ND	
Trichloroethene	21	0.47	ND		ND	
1,2-Dichlorobenzene	100	1.1	ND		ND	
1,3-Dichlorobenzene	49	2.4	ND		ND	
1,4-Dichlorobenzene	13	1.8	ND		ND	
Methyl tert butyl ether	100	0.93	ND		ND	
p/m-Xylene	NC	NC	ND		ND	
o-Xylene	NC	NC	ND		ND	
Xylenes, Total	100	0.26	ND		ND	
cis-1,2-Dichloroethene	100	0.25	ND		ND	
1,2-Dichloroethene, Total	NC	NC	ND		ND	
Dibromomethane	NC	NC	ND		ND	
Styrene	NC	NC	ND		ND	
Dichlorodifluoromethane	NC	NC	ND		ND	
Acetone	100	0.05	ND		ND	
Carbon disulfide	NC	NC	ND		ND	
2-Butanone	100	0.12	ND		ND	
Vinyl acetate	NC	NC	ND		ND	
4-Methyl-2-pentanone	NC	NC	ND		ND	
1,2,3-Trichloropropane	NC	NC	ND		ND	
2-Hexanone	NC	NC	ND		ND	
Bromochloromethane	NC	NC	ND		ND	
2,2-Dichloropropane	NC	NC	ND		ND	
1,2-Dibromoethane	NC	NC	ND		ND	
1,3-Dichloropropane	NC	NC	ND		ND	
1,1,1,2-Tetrachloroethane	NC	NC	ND		ND	
Bromobenzene	NC	NC	ND		ND	
n-Butylbenzene	100	12	ND		ND	
sec-Butylbenzene	100	11	ND		ND	
tert-Butylbenzene	100	5.9	ND		ND	
o-Chlorotoluene	NC	NC	ND		ND	
p-Chlorotoluene	NC	NC	ND		ND	
1,2-Dibromo-3-chloropropane	NC	NC	ND		ND	
Hexachlorobutadiene	NC	NC	ND		ND	
Isopropylbenzene	NC	NC	ND		ND	
p-Isopropyltoluene	NC	NC	ND		ND	
Naphthalene	100	12	ND		ND	
Acrylonitrile	NC	NC	ND		ND	
n-Propylbenzene	100	3.9	ND		ND	
1,2,3-Trichlorobenzene	NC	NC	ND		ND	
1,2,4-Trichlorobenzene	NC	NC	ND		ND	
1,3,5-Trimethylbenzene	52	8.4	ND		ND	

Table 1  
Soil Sampling Analytical Results  
Volatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION			S-6 (5-6)		S-7 (5-6)	
SAMPLING DATE			10/22/2020		10/22/2020	
LAB SAMPLE ID			L2046080-06		L2046080-07	
SAMPLE TYPE			SOIL		SOIL	
	RRSCO	USCO	Result	Q	Result	Q
<b>Volatile Organics By GC/MS - (mg/kg)</b>						
1,2,4-Trimethylbenzene	52	3.6	ND		ND	
1,4-Dioxane	13	0.1	ND		ND	
p-Diethylbenzene	NC	NC	ND		ND	
p-Ethyltoluene	NC	NC	ND		ND	
1,2,4,5-Tetramethylbenzene	NC	NC	ND		ND	
Ethyl ether	NC	NC	ND		ND	
trans-1,4-Dichloro-2-butene	NC	NC	ND		ND	
Total VOCs	NC	NC	-	-	-	-

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

Table 1  
Soil Sampling Analytical Results  
Volatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION			S-8 (8-9)		S-9 (4-5)		S-10 (6-7)		S-11 (2-3)		S-12 (3)
SAMPLING DATE			10/22/2020		10/22/2020		10/22/2020		10/22/2020		11/18/20
LAB SAMPLE ID			L2046080-08		L2046080-09		L2046080-10		L2046080-11		L205131
SAMPLE TYPE			SOIL		SOIL		SOIL		SOIL		SOIL
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result
<b>Volatile Organics By GC/MS - (mg/kg)</b>											
Methylene chloride	100	0.05	ND		ND		ND		ND		ND
1,1-Dichloroethane	26	0.27	ND		ND		ND		ND		ND
Chloroform	49	0.37	ND		ND		ND		ND		ND
Carbon tetrachloride	2.4	0.76	ND		ND		ND		ND		ND
1,2-Dichloropropane	NC	NC	ND		ND		ND		ND		ND
Dibromochloromethane	NC	NC	ND		ND		ND		ND		ND
1,1,2-Trichloroethane	NC	NC	ND		ND		ND		ND		ND
Tetrachloroethene	19	1.3	ND		ND		ND		ND		ND
Chlorobenzene	100	1.1	ND		ND		ND		ND		ND
Trichlorofluoromethane	NC	NC	ND		ND		ND		ND		ND
1,2-Dichloroethane	3.1	0.02	ND		ND		ND		ND		ND
1,1,1-Trichloroethane	100	0.68	ND		ND		ND		ND		ND
Bromodichloromethane	NC	NC	ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NC	NC	ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NC	NC	ND		ND		ND		ND		ND
1,3-Dichloropropene, Total	NC	NC	ND		ND		ND		ND		ND
1,1-Dichloropropene	NC	NC	ND		ND		ND		ND		ND
Bromoform	NC	NC	ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	NC	NC	ND		ND		ND		ND		ND
Benzene	4.8	0.06	ND		ND		ND		ND		ND
Toluene	100	0.7	ND		ND		ND		ND		ND
Ethylbenzene	41	1	ND		ND		ND		ND		ND
Chloromethane	NC	NC	ND		ND		ND		ND		ND
Bromomethane	NC	NC	ND		ND		ND		ND		ND
Vinyl chloride	0.9	0.02	ND		ND		ND		ND		ND
Chloroethane	NC	NC	ND		ND		ND		ND		ND
1,1-Dichloroethene	100	0.33	ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	100	0.19	ND		ND		ND		ND		ND
Trichloroethene	21	0.47	ND		ND		ND		ND		ND
1,2-Dichlorobenzene	100	1.1	ND		ND		ND		ND		ND
1,3-Dichlorobenzene	49	2.4	ND		ND		ND		ND		ND
1,4-Dichlorobenzene	13	1.8	ND		ND		ND		ND		ND
Methyl tert butyl ether	100	0.93	ND		ND		ND		ND		ND
p/m-Xylene	NC	NC	ND		ND		ND		ND		ND
o-Xylene	NC	NC	ND		ND		ND		ND		ND
Xylenes, Total	100	0.26	ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	100	0.25	ND		ND		ND		ND		ND
1,2-Dichloroethene, Total	NC	NC	ND		ND		ND		ND		ND
Dibromomethane	NC	NC	ND		ND		ND		ND		ND
Styrene	NC	NC	ND		ND		ND		ND		ND
Dichlorodifluoromethane	NC	NC	ND		ND		ND		ND		ND
Acetone	100	0.05	ND		ND		ND		ND		ND
Carbon disulfide	NC	NC	ND		ND		ND		ND		ND
2-Butanone	100	0.12	ND		ND		ND		ND		ND
Vinyl acetate	NC	NC	ND		ND		ND		ND		ND
4-Methyl-2-pentanone	NC	NC	ND		ND		ND		ND		ND
1,2,3-Trichloropropane	NC	NC	ND		ND		ND		ND		ND
2-Hexanone	NC	NC	ND		ND		ND		ND		ND
Bromochloromethane	NC	NC	ND		ND		ND		ND		ND
2,2-Dichloropropane	NC	NC	ND		ND		ND		ND		ND
1,2-Dibromoethane	NC	NC	ND		ND		ND		ND		ND
1,3-Dichloropropane	NC	NC	ND		ND		ND		ND		ND
1,1,1,2-Tetrachloroethane	NC	NC	ND		ND		ND		ND		ND
Bromobenzene	NC	NC	ND		ND		ND		ND		ND
n-Butylbenzene	100	12	ND		ND		ND		ND		ND
sec-Butylbenzene	100	11	ND		ND		ND		ND		ND
tert-Butylbenzene	100	5.9	ND		ND		ND		ND		ND
o-Chlorotoluene	NC	NC	ND		ND		ND		ND		ND
p-Chlorotoluene	NC	NC	ND		ND		ND		ND		ND
1,2-Dibromo-3-chloropropane	NC	NC	ND		ND		ND		ND		ND
Hexachlorobutadiene	NC	NC	ND		ND		ND		ND		ND
Isopropylbenzene	NC	NC	ND		ND		ND		ND		ND
p-Isopropyltoluene	NC	NC	ND		ND		ND		ND		ND
Naphthalene	100	12	ND		ND		ND		ND		ND
Acrylonitrile	NC	NC	ND		ND		ND		ND		ND
n-Propylbenzene	100	3.9	ND		ND		ND		ND		ND
1,2,3-Trichlorobenzene	NC	NC	ND		ND		ND		ND		ND
1,2,4-Trichlorobenzene	NC	NC	ND		ND		ND		ND		ND
1,3,5-Trimethylbenzene	52	8.4	ND		ND		ND		ND		ND

Table 1  
Soil Sampling Analytical Results  
Volatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-8 (8-9)	S-9 (4-5)	S-10 (6-7)	S-11 (2-3)	S-12 (3)					
SAMPLING DATE		10/22/2020	10/22/2020	10/22/2020	10/22/2020	11/18/20					
LAB SAMPLE ID		L2046080-08	L2046080-09	L2046080-10	L2046080-11	L205131					
SAMPLE TYPE		SOIL	SOIL	SOIL	SOIL	SOIL					
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result
<b>Volatile Organics By GC/MS - (mg/kg)</b>											
1,2,4-Trimethylbenzene	52	3.6	ND		ND		ND		ND		ND
1,4-Dioxane	13	0.1	ND		ND		ND		ND		ND
p-Diethylbenzene	NC	NC	ND		ND		ND		ND		ND
p-Ethyltoluene	NC	NC	ND		ND		ND		ND		ND
1,2,4,5-Tetramethylbenzene	NC	NC	ND		ND		ND		ND		ND
Ethyl ether	NC	NC	ND		ND		ND		ND		ND
trans-1,4-Dichloro-2-butene	NC	NC	ND		ND		ND		ND		ND
Total VOCs	NC	NC	-	-			-	-	-	-	-

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

Table 1  
Soil Sampling Analytical Results  
Volatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

	LOCATION -4)			S-13 (5-6)		S-14 (4-5)	
	SAMPLING DATE 020			11/18/2020		11/18/2020	
	LAB SAMPLE ID 2-01			L2051312-02		L2051312-03	
	SAMPLE TYPE			SOIL		SOIL	
	RRSCO	USCO	Q	Result	Q	Result	Q
<b>Volatile Organics By GC/MS - (mg/kg)</b>							
Methylene chloride	100	0.05		ND		ND	
1,1-Dichloroethane	26	0.27		ND		ND	
Chloroform	49	0.37		ND		ND	
Carbon tetrachloride	2.4	0.76		ND		ND	
1,2-Dichloropropane	NC	NC		ND		ND	
Dibromochloromethane	NC	NC		ND		ND	
1,1,2-Trichloroethane	NC	NC		ND		ND	
Tetrachloroethene	19	1.3		ND		ND	
Chlorobenzene	100	1.1		ND		ND	
Trichlorofluoromethane	NC	NC		ND		ND	
1,2-Dichloroethane	3.1	0.02		ND		ND	
1,1,1-Trichloroethane	100	0.68		ND		ND	
Bromodichloromethane	NC	NC		ND		ND	
trans-1,3-Dichloropropene	NC	NC		ND		ND	
cis-1,3-Dichloropropene	NC	NC		ND		ND	
1,3-Dichloropropene, Total	NC	NC		ND		ND	
1,1-Dichloropropene	NC	NC		ND		ND	
Bromoform	NC	NC		ND		ND	
1,1,2,2-Tetrachloroethane	NC	NC		ND		ND	
Benzene	4.8	0.06		ND		ND	
Toluene	100	0.7		ND		ND	
Ethylbenzene	41	1		ND		ND	
Chloromethane	NC	NC		ND		ND	
Bromomethane	NC	NC		ND		ND	
Vinyl chloride	0.9	0.02		ND		ND	
Chloroethane	NC	NC		ND		ND	
1,1-Dichloroethene	100	0.33		ND		ND	
trans-1,2-Dichloroethene	100	0.19		ND		ND	
Trichloroethene	21	0.47		ND		ND	
1,2-Dichlorobenzene	100	1.1		ND		ND	
1,3-Dichlorobenzene	49	2.4		ND		ND	
1,4-Dichlorobenzene	13	1.8		ND		ND	
Methyl tert butyl ether	100	0.93		ND		ND	
p/m-Xylene	NC	NC		ND		ND	
o-Xylene	NC	NC		ND		ND	
Xylenes, Total	100	0.26		ND		ND	
cis-1,2-Dichloroethene	100	0.25		ND		ND	
1,2-Dichloroethene, Total	NC	NC		ND		ND	
Dibromomethane	NC	NC		ND		ND	
Styrene	NC	NC		ND		ND	
Dichlorodifluoromethane	NC	NC		ND		ND	
Acetone	100	0.05		ND		ND	
Carbon disulfide	NC	NC		ND		ND	
2-Butanone	100	0.12		ND		ND	
Vinyl acetate	NC	NC		ND		ND	
4-Methyl-2-pentanone	NC	NC		ND		ND	
1,2,3-Trichloropropane	NC	NC		ND		ND	
2-Hexanone	NC	NC		ND		ND	
Bromochloromethane	NC	NC		ND		ND	
2,2-Dichloropropane	NC	NC		ND		ND	
1,2-Dibromoethane	NC	NC		ND		ND	
1,3-Dichloropropane	NC	NC		ND		ND	
1,1,1,2-Tetrachloroethane	NC	NC		ND		ND	
Bromobenzene	NC	NC		ND		ND	
n-Butylbenzene	100	12		ND		ND	
sec-Butylbenzene	100	11		ND		ND	
tert-Butylbenzene	100	5.9		ND		ND	
o-Chlorotoluene	NC	NC		ND		ND	
p-Chlorotoluene	NC	NC		ND		ND	
1,2-Dibromo-3-chloropropane	NC	NC		ND		ND	
Hexachlorobutadiene	NC	NC		ND		ND	
Isopropylbenzene	NC	NC		ND		ND	
p-Isopropyltoluene	NC	NC		ND		ND	
Naphthalene	100	12		ND		ND	
Acrylonitrile	NC	NC		ND		ND	
n-Propylbenzene	100	3.9		ND		ND	
1,2,3-Trichlorobenzene	NC	NC		ND		ND	
1,2,4-Trichlorobenzene	NC	NC		ND		ND	
1,3,5-Trimethylbenzene	52	8.4		ND		ND	



Table 1  
 Soil Sampling Analytical Results  
 Volatile Organic Compounds  
 327-329 Huguenot Street, New Rochelle, New York

LOCATION				S-13 (5-6)		S-14 (4-5)	
SAMPLING DATE				11/18/2020		11/18/2020	
LAB SAMPLE ID				L2051312-02		L2051312-03	
SAMPLE TYPE				SOIL		SOIL	
	RRSCO	USCO	Q	Result	Q	Result	Q
<b>Volatile Organics By GC/MS - (mg/kg)</b>							
1,2,4-Trimethylbenzene	52	3.6		ND		ND	
1,4-Dioxane	13	0.1		ND		ND	
p-Diethylbenzene	NC	NC		ND		ND	
p-Ethyltoluene	NC	NC		ND		ND	
1,2,4,5-Tetramethylbenzene	NC	NC		ND		ND	
Ethyl ether	NC	NC		ND		ND	
trans-1,4-Dichloro-2-butene	NC	NC		ND		ND	
Total VOCs	NC	NC	-	-	-	-	-

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

Table 1  
Soil Sampling Analytical Results  
Volatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-15 (5-6)	S-16 (4-5)	S-17 (2-3)	S-18 (3-4)	S-19 (2-3)					
SAMPLING DATE		11/18/2020	11/18/2020	11/18/2020	11/18/2020	11/19/2020					
LAB SAMPLE ID		L2051312-04	L2051312-05	L2051312-06	L2051312-07	L205174					
SAMPLE TYPE		SOIL		SOIL		SOIL					
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	
<b>Volatile Organics By GC/MS - (mg/kg)</b>											
Methylene chloride	100	0.05	ND		ND		ND		ND		ND
1,1-Dichloroethane	26	0.27	ND		ND		ND		ND		ND
Chloroform	49	0.37	ND		ND		ND		ND		ND
Carbon tetrachloride	2.4	0.76	ND		ND		ND		ND		ND
1,2-Dichloropropane	NC	NC	ND		ND		ND		ND		ND
Dibromochloromethane	NC	NC	ND		ND		ND		ND		ND
1,1,2-Trichloroethane	NC	NC	ND		ND		ND		ND		ND
Tetrachloroethene	19	1.3	ND		ND		ND		ND		ND
Chlorobenzene	100	1.1	ND		ND		ND		ND		ND
Trichlorofluoromethane	NC	NC	ND		ND		ND		ND		ND
1,2-Dichloroethane	3.1	0.02	ND		ND		ND		ND		ND
1,1,1-Trichloroethane	100	0.68	ND		ND		ND		ND		ND
Bromodichloromethane	NC	NC	ND		ND		ND		ND		ND
trans-1,3-Dichloropropene	NC	NC	ND		ND		ND		ND		ND
cis-1,3-Dichloropropene	NC	NC	ND		ND		ND		ND		ND
1,3-Dichloropropene, Total	NC	NC	ND		ND		ND		ND		ND
1,1-Dichloropropene	NC	NC	ND		ND		ND		ND		ND
Bromoform	NC	NC	ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	NC	NC	ND		ND		ND		ND		ND
Benzene	4.8	0.06	ND		ND		ND		ND		ND
Toluene	100	0.7	ND		ND		ND		ND		ND
Ethylbenzene	41	1	ND		ND		ND		ND		ND
Chloromethane	NC	NC	ND		ND		ND		ND		ND
Bromomethane	NC	NC	ND		ND		ND		ND		ND
Vinyl chloride	0.9	0.02	ND		ND		ND		ND		ND
Chloroethane	NC	NC	ND		ND		ND		ND		ND
1,1-Dichloroethene	100	0.33	ND		ND		ND		ND		ND
trans-1,2-Dichloroethene	100	0.19	ND		ND		ND		ND		ND
Trichloroethene	21	0.47	ND		ND		ND		ND		ND
1,2-Dichlorobenzene	100	1.1	ND		ND		ND		ND		ND
1,3-Dichlorobenzene	49	2.4	ND		ND		ND		ND		ND
1,4-Dichlorobenzene	13	1.8	ND		ND		ND		ND		ND
Methyl tert butyl ether	100	0.93	ND		ND		ND		ND		ND
p/m-Xylene	NC	NC	ND		ND		ND		ND		ND
o-Xylene	NC	NC	ND		ND		ND		ND		ND
Xylenes, Total	100	0.26	ND		ND		ND		ND		ND
cis-1,2-Dichloroethene	100	0.25	ND		ND		ND		ND		ND
1,2-Dichloroethene, Total	NC	NC	ND		ND		ND		ND		ND
Dibromomethane	NC	NC	ND		ND		ND		ND		ND
Styrene	NC	NC	ND		ND		ND		ND		ND
Dichlorodifluoromethane	NC	NC	ND		ND		ND		ND		ND
Acetone	100	0.05	ND		ND		ND		ND		ND
Carbon disulfide	NC	NC	ND		ND		ND		ND		ND
2-Butanone	100	0.12	ND		ND		ND		ND		ND
Vinyl acetate	NC	NC	ND		ND		ND		ND		ND
4-Methyl-2-pentanone	NC	NC	ND		ND		ND		ND		ND
1,2,3-Trichloropropane	NC	NC	ND		ND		ND		ND		ND
2-Hexanone	NC	NC	ND		ND		ND		ND		ND
Bromochloromethane	NC	NC	ND		ND		ND		ND		ND
2,2-Dichloropropane	NC	NC	ND		ND		ND		ND		ND
1,2-Dibromoethane	NC	NC	ND		ND		ND		ND		ND
1,3-Dichloropropane	NC	NC	ND		ND		ND		ND		ND
1,1,1,2-Tetrachloroethane	NC	NC	ND		ND		ND		ND		ND
Bromobenzene	NC	NC	ND		ND		ND		ND		ND
n-Butylbenzene	100	12	ND		ND		ND		ND		ND
sec-Butylbenzene	100	11	ND		ND		ND		ND		ND
tert-Butylbenzene	100	5.9	ND		ND		ND		ND		ND
o-Chlorotoluene	NC	NC	ND		ND		ND		ND		ND
p-Chlorotoluene	NC	NC	ND		ND		ND		ND		ND
1,2-Dibromo-3-chloropropane	NC	NC	ND		ND		ND		ND		ND
Hexachlorobutadiene	NC	NC	ND		ND		ND		ND		ND
Isopropylbenzene	NC	NC	ND		ND		ND		ND		ND
p-Isopropyltoluene	NC	NC	ND		ND		ND		ND		ND
Naphthalene	100	12	0.00066	J	ND		ND		ND		ND
Acrylonitrile	NC	NC	ND		ND		ND		ND		ND
n-Propylbenzene	100	3.9	ND		ND		ND		ND		ND
1,2,3-Trichlorobenzene	NC	NC	ND		ND		ND		ND		ND
1,2,4-Trichlorobenzene	NC	NC	ND		ND		ND		ND		ND
1,3,5-Trimethylbenzene	52	8.4	ND		ND		ND		ND		ND

Table 1  
 Soil Sampling Analytical Results  
 Volatile Organic Compounds  
 327-329 Huguenot Street, New Rochelle, New York

LOCATION			S-15 (5-6)		S-16 (4-5)		S-17 (2-3)		S-18 (3-4)		S-19 (2-3)
SAMPLING DATE			11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/19/2020
LAB SAMPLE ID			L2051312-04		L2051312-05		L2051312-06		L2051312-07		L205174
SAMPLE TYPE			SOIL		SOIL		SOIL		SOIL		SOIL
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result
<b>Volatile Organics By GC/MS - (mg/kg)</b>											
1,2,4-Trimethylbenzene	52	3.6	ND		ND		ND		ND		ND
1,4-Dioxane	13	0.1	ND		ND		ND		ND		ND
p-Diethylbenzene	NC	NC	ND		ND		ND		ND		ND
p-Ethyltoluene	NC	NC	ND		ND		ND		ND		ND
1,2,4,5-Tetramethylbenzene	NC	NC	ND		ND		ND		ND		ND
Ethyl ether	NC	NC	ND		ND		ND		ND		ND
trans-1,4-Dichloro-2-butene	NC	NC	ND		ND		ND		ND		ND
Total VOCs	NC	NC	0.00066	-	-	-	-	-	-	-	-

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

Table 1  
Soil Sampling Analytical Results  
Volatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

	LOCATION 2-3)			S-20 (4-5)		S-21 (3-4)	
	SAMPLING DATE 020			11/19/2020		11/19/2020	
	LAB SAMPLE ID 0-01			L2051740-02		L2051740-03	
	SAMPLE TYPE			SOIL		SOIL	
	RRSCO	USCO	Q	Result	Q	Result	Q
<b>Volatile Organics By GC/MS - (mg/kg)</b>							
Methylene chloride	100	0.05		ND		ND	
1,1-Dichloroethane	26	0.27		ND		ND	
Chloroform	49	0.37		ND		ND	
Carbon tetrachloride	2.4	0.76		ND		ND	
1,2-Dichloropropane	NC	NC		ND		ND	
Dibromochloromethane	NC	NC		ND		ND	
1,1,2-Trichloroethane	NC	NC		ND		ND	
Tetrachloroethene	19	1.3		ND		ND	
Chlorobenzene	100	1.1		ND		ND	
Trichlorofluoromethane	NC	NC		ND		ND	
1,2-Dichloroethane	3.1	0.02		ND		ND	
1,1,1-Trichloroethane	100	0.68		ND		ND	
Bromodichloromethane	NC	NC		ND		ND	
trans-1,3-Dichloropropene	NC	NC		ND		ND	
cis-1,3-Dichloropropene	NC	NC		ND		ND	
1,3-Dichloropropene, Total	NC	NC		ND		ND	
1,1-Dichloropropene	NC	NC		ND		ND	
Bromoform	NC	NC		ND		ND	
1,1,2,2-Tetrachloroethane	NC	NC		ND		ND	
Benzene	4.8	0.06		ND		ND	
Toluene	100	0.7		ND		ND	
Ethylbenzene	41	1		ND		ND	
Chloromethane	NC	NC		ND		ND	
Bromomethane	NC	NC		ND		ND	
Vinyl chloride	0.9	0.02		ND		ND	
Chloroethane	NC	NC		ND		ND	
1,1-Dichloroethene	100	0.33		ND		ND	
trans-1,2-Dichloroethene	100	0.19		ND		ND	
Trichloroethene	21	0.47		ND		ND	
1,2-Dichlorobenzene	100	1.1		ND		ND	
1,3-Dichlorobenzene	49	2.4		ND		ND	
1,4-Dichlorobenzene	13	1.8		ND		ND	
Methyl tert butyl ether	100	0.93		ND		ND	
p/m-Xylene	NC	NC		ND		ND	
o-Xylene	NC	NC		ND		ND	
Xylenes, Total	100	0.26		ND		ND	
cis-1,2-Dichloroethene	100	0.25		ND		ND	
1,2-Dichloroethene, Total	NC	NC		ND		ND	
Dibromomethane	NC	NC		ND		ND	
Styrene	NC	NC		ND		ND	
Dichlorodifluoromethane	NC	NC		ND		ND	
Acetone	100	0.05		ND		ND	
Carbon disulfide	NC	NC		ND		ND	
2-Butanone	100	0.12		ND		ND	
Vinyl acetate	NC	NC		ND		ND	
4-Methyl-2-pentanone	NC	NC		ND		ND	
1,2,3-Trichloropropane	NC	NC		ND		ND	
2-Hexanone	NC	NC		ND		ND	
Bromochloromethane	NC	NC		ND		ND	
2,2-Dichloropropane	NC	NC		ND		ND	
1,2-Dibromoethane	NC	NC		ND		ND	
1,3-Dichloropropane	NC	NC		ND		ND	
1,1,1,2-Tetrachloroethane	NC	NC		ND		ND	
Bromobenzene	NC	NC		ND		ND	
n-Butylbenzene	100	12		ND		ND	
sec-Butylbenzene	100	11		ND		ND	
tert-Butylbenzene	100	5.9		ND		ND	
o-Chlorotoluene	NC	NC		ND		ND	
p-Chlorotoluene	NC	NC		ND		ND	
1,2-Dibromo-3-chloropropane	NC	NC		ND		ND	
Hexachlorobutadiene	NC	NC		ND		ND	
Isopropylbenzene	NC	NC		ND		ND	
p-Isopropyltoluene	NC	NC		ND		ND	
Naphthalene	100	12		ND		0.0026	J
Acrylonitrile	NC	NC		ND		ND	
n-Propylbenzene	100	3.9		ND		ND	
1,2,3-Trichlorobenzene	NC	NC		ND		ND	
1,2,4-Trichlorobenzene	NC	NC		ND		ND	
1,3,5-Trimethylbenzene	52	8.4		ND		ND	

Table 1  
Soil Sampling Analytical Results  
Volatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION			S-3	S-20 (4-5)	S-21 (3-4)		
SAMPLING DATE			020	11/19/2020	11/19/2020		
LAB SAMPLE ID			0-01	L2051740-02	L2051740-03		
SAMPLE TYPE				SOIL	SOIL		
	RRSCO	USCO	Q	Result	Q	Result	Q
<b>Volatile Organics By GC/MS - (mg/kg)</b>							
1,2,4-Trimethylbenzene	52	3.6		ND		ND	
1,4-Dioxane	13	0.1		ND		ND	
p-Diethylbenzene	NC	NC		ND		ND	
p-Ethyltoluene	NC	NC		ND		ND	
1,2,4,5-Tetramethylbenzene	NC	NC		ND		ND	
Ethyl ether	NC	NC		ND		ND	
trans-1,4-Dichloro-2-butene	NC	NC		ND		ND	
Total VOCs	NC	NC	-	-	-	0.0026	-

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

Table 2  
Soil Sampling Analytical Results  
Semivolatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-1 (2-3)		S-2 (3-4)		S-3 (1-2)		S-4 (4-5)		S-5 (2-3)			
SAMPLING DATE	10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020			
LAB SAMPLE ID	L2046080-01		L2046080-02		L2046080-03		L2046080-04		L2046080-05			
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL			
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Semivolatile Organics By GC/MS - (mg/kg)</b>												
Acenaphthene	100	20	0.019	J	0.043	J	ND		ND		ND	
1,2,4-Trichlorobenzene			ND		ND		ND		ND		ND	
Hexachlorobenzene	1.2	0.33	ND		ND		ND		ND		ND	
Bis(2-chloroethyl)ether			ND		ND		ND		ND		ND	
2-Chloronaphthalene			ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	100	1.1	ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	49	2.4	ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	1.8	ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine			ND		ND		ND		ND		ND	
2,4-Dinitrotoluene			ND		ND		ND		ND		ND	
2,6-Dinitrotoluene			ND		ND		ND		ND		ND	
Fluoranthene	100	100	1.1		1.4		0.38		0.64		0.34	
4-Chlorophenyl phenyl ether			ND		ND		ND		ND		ND	
4-Bromophenyl phenyl ether			ND		ND		ND		ND		ND	
Bis(2-chloroisopropyl)ether			ND		ND		ND		ND		ND	
Bis(2-chloroethoxy)methane			ND		ND		ND		ND		ND	
Hexachlorobutadiene			ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene			ND		ND		ND		ND		ND	
Hexachloroethane			ND		ND		ND		ND		ND	
Isophorone			ND		ND		ND		ND		ND	
Naphthalene	100	12	0.027	J	0.058	J	ND		0.034	J	ND	
Nitrobenzene			ND		ND		ND		ND		ND	
NDPA/DPA			ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine			ND		ND		ND		ND		ND	
Bis(2-ethylhexyl)phthalate			0.075	J	0.26		2		3.1		0.08	J
Butyl benzyl phthalate			0.23		0.92		ND		0.093	J	ND	
Di-n-butylphthalate			ND		ND		ND		ND		ND	
Di-n-octylphthalate			ND		ND		ND		ND		ND	
Diethyl phthalate			ND		ND		ND		ND		ND	
Dimethyl phthalate			ND		ND		ND		ND		ND	
Benzo(a)anthracene	1	1	0.82		1.4		0.33		0.44		0.25	
Benzo(a)pyrene	1	1	0.93		1.3		0.44		0.66		0.34	
Benzo(b)fluoranthene	1	1	1.1		1.4		0.49		0.72		0.4	
Benzo(k)fluoranthene	3.9	0.8	0.34		0.39		0.14		0.23		0.15	
Chrysene	3.9	1	0.9		1.6		0.35		0.52		0.29	
Acenaphthylene	100	100	0.12	J	0.13	J	0.038	J	0.11	J	0.074	J
Anthracene	100	100	0.16		0.23		0.039	J	0.097	J	0.05	J
Benzo(ghi)perylene	100	100	0.54		0.73		0.28		0.42		0.22	
Fluorene	100	30	0.02	J	0.058	J	ND		0.03	J	ND	

Table 2  
Soil Sampling Analytical Results  
Semivolatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-1 (2-3)		S-2 (3-4)		S-3 (1-2)		S-4 (4-5)		S-5 (2-3)		
SAMPLING DATE	10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		
LAB SAMPLE ID	L2046080-01		L2046080-02		L2046080-03		L2046080-04		L2046080-05		
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	
<b>Semivolatile Organics By GC/MS - (mg/kg)</b>											
Phenanthrene	100	100	0.58		0.98		0.16		0.4		0.12
Dibenzo(a,h)anthracene	0.33	0.33	0.14		0.2		0.068	J	0.1	J	0.057
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.54		0.64		0.27		0.41		0.22
Pyrene	100	100	1.3		2.1		0.45		0.68		0.38
Biphenyl			ND		ND		ND		ND		ND
4-Chloroaniline			ND		ND		ND		ND		ND
2-Nitroaniline			ND		ND		ND		ND		ND
3-Nitroaniline			ND		ND		ND		ND		ND
4-Nitroaniline			ND		ND		ND		ND		ND
Dibenzofuran	59	7	ND		0.037	J	ND		0.02	J	ND
2-Methylnaphthalene			ND		0.038	J	ND		ND		ND
1,2,4,5-Tetrachlorobenzene			ND		ND		ND		ND		ND
Acetophenone			ND		ND		ND		ND		ND
2,4,6-Trichlorophenol			ND		ND		ND		ND		ND
p-Chloro-m-cresol			ND		ND		ND		ND		ND
2-Chlorophenol			ND		ND		ND		ND		ND
2,4-Dichlorophenol			ND		ND		ND		ND		ND
2,4-Dimethylphenol			ND		ND		ND		ND		ND
2-Nitrophenol			ND		ND		ND		ND		ND
4-Nitrophenol			ND		ND		ND		ND		ND
2,4-Dinitrophenol			ND		ND		ND		ND		ND
4,6-Dinitro-o-cresol			ND		ND		ND		ND		ND
Pentachlorophenol	6.7	0.8	ND		ND		ND		ND		ND
Phenol	100	0.33	ND		ND		ND		ND		ND
2-Methylphenol	100	0.33	ND		0.049	J	ND		ND		ND
3-Methylphenol/4-Methylphenol	100	0.33	ND		ND		ND		ND		ND
2,4,5-Trichlorophenol			ND		ND		ND		ND		ND
Benzoic Acid			ND		ND		ND		ND		ND
Benzyl Alcohol			ND		ND		ND		ND		ND
Carbazole			0.058	J	0.067	J	0.025	J	0.05	J	ND
1,4-Dioxane	13	0.1	ND		ND		ND		ND		ND
Total SVOCs			8.999	-	14.03	-	5.46	-	8.754	-	2.971

Notes:  
RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria  
USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria  
NC - No Criteria  
mg/kg - milligrams per kilogram  
Q - Laboratory Qualifier  
E - Concentration exceeds the range of the calibration curve for the laboratory instrument

Table 2  
 Soil Sampling Analytical Results  
 Semivolatile Organic Compounds  
 327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-1 (2-3)		S-2 (3-4)		S-3 (1-2)		S-4 (4-5)		S-5 (2-3)		
SAMPLING DATE		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		
LAB SAMPLE ID		L2046080-01		L2046080-02		L2046080-03		L2046080-04		L2046080-05		
SAMPLE TYPE		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Semivolatile Organics By GC/MS - (mg/kg)</b>												

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

**Red Highlight - Exceeds RRSCO**



Table 2  
Soil Sampling Analytical Results  
Semivolatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-6 (5-6)		S-7 (5-6)		S-8 (8-9)		S-9 (4-5)		S-10 (6-7)		S-11 (2-3)			
SAMPLING DATE	10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020			
LAB SAMPLE ID	L2046080-06		L2046080-07		L2046080-08		L2046080-09		L2046080-10		L2046080-11			
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL			
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
<b>Semivolatile Organics By GC/MS - (mg/kg)</b>														
Acenaphthene	100	20	ND		ND		ND		0.099	J	0.033	J	ND	
1,2,4-Trichlorobenzene			ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	1.2	0.33	ND		ND		ND		ND		ND		ND	
Bis(2-chloroethyl)ether			ND		ND		ND		ND		ND		ND	
2-Chloronaphthalene			ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	100	1.1	ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	49	2.4	ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	1.8	ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine			ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene			ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene			ND		ND		ND		ND		ND		ND	
Fluoranthene	100	100	0.52		0.53		ND		4.1		0.56		1.4	
4-Chlorophenyl phenyl ether			ND		ND		ND		ND		ND		ND	
4-Bromophenyl phenyl ether			ND		ND		ND		ND		ND		ND	
Bis(2-chloroisopropyl)ether			ND		ND		ND		ND		ND		ND	
Bis(2-chloroethoxy)methane			ND		ND		ND		ND		ND		ND	
Hexachlorobutadiene			ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene			ND		ND		ND		ND		ND		ND	
Hexachloroethane			ND		ND		ND		ND		ND		ND	
Isophorone			ND		ND		ND		ND		ND		ND	
Naphthalene	100	12	ND		ND		ND		0.26		ND		0.034	J
Nitrobenzene			ND		ND		ND		ND		ND		ND	
NDPA/DPA			ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine			ND		ND		ND		ND		ND		ND	
Bis(2-ethylhexyl)phthalate			ND		ND		ND		0.069	J	ND		ND	
Butyl benzyl phthalate			ND		ND		ND		ND		ND		0.18	J
Di-n-butylphthalate			ND		ND		ND		ND		ND		ND	
Di-n-octylphthalate			ND		ND		ND		ND		ND		ND	
Diethyl phthalate			ND		ND		ND		ND		ND		ND	
Dimethyl phthalate			ND		ND		ND		ND		ND		ND	
Benzo(a)anthracene	1	1	0.22		0.26		ND		2.3		0.48		0.9	
Benzo(a)pyrene	1	1	0.2		0.23		ND		2.4		0.4		1	
Benzo(b)fluoranthene	1	1	0.21		0.24		ND		2.9		0.39		1.2	
Benzo(k)fluoranthene	3.9	0.8	0.082	J	0.078	J	ND		1		0.1	J	0.4	
Chrysene	3.9	1	0.25		0.27		ND		2.2		0.61		1	
Acenaphthylene	100	100	0.032	J	0.038	J	ND		0.2		ND		0.18	
Anthracene	100	100	0.049	J	0.06	J	ND		0.77		0.059	J	0.16	
Benzo(ghi)perylene	100	100	0.091	J	0.11	J	ND		1.2		0.21		0.59	
Fluorene	100	30	0.026	J	0.03	J	ND		0.17	J	0.022	J	0.031	J

Table 2  
Soil Sampling Analytical Results  
Semivolatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-6 (5-6)		S-7 (5-6)		S-8 (8-9)		S-9 (4-5)		S-10 (6-7)		S-11 (2-3)		
SAMPLING DATE	10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		
LAB SAMPLE ID	L2046080-06		L2046080-07		L2046080-08		L2046080-09		L2046080-10		L2046080-11		
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
<b>Semivolatile Organics By GC/MS - (mg/kg)</b>													
Phenanthrene	100	100	0.35		0.48		ND		1.7		0.72		0.52
Dibenzo(a,h)anthracene	0.33	0.33	0.028	J	0.033	J	ND		0.35		0.059	J	0.16
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.098	J	0.11	J	ND		1.4		0.16		0.6
Pyrene	100	100	0.48		0.53		0.038	J	3.7		0.99		1.5
Biphenyl			ND		ND		ND		ND		ND		ND
4-Chloroaniline			ND		ND		ND		ND		ND		ND
2-Nitroaniline			ND		ND		ND		ND		ND		ND
3-Nitroaniline			ND		ND		ND		ND		ND		ND
4-Nitroaniline			ND		ND		ND		ND		ND		ND
Dibenzofuran	59	7	ND		0.026	J	ND		0.14	J	ND		ND
2-Methylnaphthalene			ND		ND		ND		0.094	J	ND		ND
1,2,4,5-Tetrachlorobenzene			ND		ND		ND		ND		ND		ND
Acetophenone			ND		ND		ND		ND		ND		ND
2,4,6-Trichlorophenol			ND		ND		ND		ND		ND		ND
p-Chloro-m-cresol			ND		ND		ND		ND		ND		ND
2-Chlorophenol			ND		ND		ND		ND		ND		ND
2,4-Dichlorophenol			ND		ND		ND		ND		ND		ND
2,4-Dimethylphenol			ND		ND		ND		ND		ND		ND
2-Nitrophenol			ND		ND		ND		ND		ND		ND
4-Nitrophenol			ND		ND		ND		ND		ND		ND
2,4-Dinitrophenol			ND		ND		ND		ND		ND		ND
4,6-Dinitro-o-cresol			ND		ND		ND		ND		ND		ND
Pentachlorophenol	6.7	0.8	ND		ND		ND		ND		ND		ND
Phenol	100	0.33	ND		ND		ND		ND		ND		ND
2-Methylphenol	100	0.33	ND		ND		ND		ND		ND		ND
3-Methylphenol/4-Methylphenol	100	0.33	ND		ND		ND		ND		ND		ND
2,4,5-Trichlorophenol			ND		ND		ND		ND		ND		ND
Benzoic Acid			ND		ND		ND		ND		ND		ND
Benzyl Alcohol			ND		ND		ND		ND		ND		ND
Carbazole			0.025	J	0.036	J	ND		0.16	J	ND		0.052
1,4-Dioxane	13	0.1	ND		ND		ND		ND		ND		ND
Total SVOCs			2.661	-	3.061	-	0.038	-	25.212	-	4.793	-	9.907

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

E - Concentration exceeds the range of the calibration curve for the laboratory instrument

Table 2  
 Soil Sampling Analytical Results  
 Semivolatile Organic Compounds  
 327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-6 (5-6)		S-7 (5-6)		S-8 (8-9)		S-9 (4-5)		S-10 (6-7)		S-11 (2-3)		
SAMPLING DATE		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		
LAB SAMPLE ID		L2046080-06		L2046080-07		L2046080-08		L2046080-09		L2046080-10		L2046080-11		
SAMPLE TYPE		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Semivolatile Organics By GC/MS - (mg/kg)</b>														

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

**Red Highlight - Exceeds RRSCO**

Table 2  
Soil Sampling Analytical Results  
Semivolatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

	LOCATION		S-12 (3-4)		S-13 (5-6)		S-13 (5-6)		S-14 (4-5)		S-15 (5-6)		S-15 (5-6)	
	SAMPLING DATE		11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/18/2020	
LAB SAMPLE ID			L2051312-01		L2051312-02		L2051312-02 R1		L2051312-03		L2051312-04		L2051312-04 R1	
SAMPLE TYPE			SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Semivolatile Organics By GC/MS - (mg/kg)</b>														
Acenaphthene	100	20	0.032	J	2.3		-		ND		0.27		-	
1,2,4-Trichlorobenzene			ND		ND		-		ND		ND		-	
Hexachlorobenzene	1.2	0.33	ND		ND		-		ND		ND		-	
Bis(2-chloroethyl)ether			ND		ND		-		ND		ND		-	
2-Chloronaphthalene			ND		ND		-		ND		ND		-	
1,2-Dichlorobenzene	100	1.1	ND		ND		-		ND		ND		-	
1,3-Dichlorobenzene	49	2.4	ND		ND		-		ND		ND		-	
1,4-Dichlorobenzene	13	1.8	ND		ND		-		ND		ND		-	
3,3'-Dichlorobenzidine			ND		ND		-		ND		ND		-	
2,4-Dinitrotoluene			ND		ND		-		ND		ND		-	
2,6-Dinitrotoluene			ND		ND		-		ND		ND		-	
Fluoranthene	100	100	4		46	E	67		0.26		9.8	E	12	
4-Chlorophenyl phenyl ether			ND		ND		-		ND		ND		-	
4-Bromophenyl phenyl ether			ND		ND		-		ND		ND		-	
Bis(2-chloroisopropyl)ether			ND		ND		-		ND		ND		-	
Bis(2-chloroethoxy)methane			ND		ND		-		ND		ND		-	
Hexachlorobutadiene			ND		ND		-		ND		ND		-	
Hexachlorocyclopentadiene			ND		ND		-		ND		ND		-	
Hexachloroethane			ND		ND		-		ND		ND		-	
Isophorone			ND		ND		-		ND		ND		-	
Naphthalene	100	12	0.12	J	4		-		ND		0.21		-	
Nitrobenzene			ND		ND		-		ND		ND		-	
NDPA/DPA			ND		ND		-		ND		ND		-	
n-Nitrosodi-n-propylamine			ND		ND		-		ND		ND		-	
Bis(2-ethylhexyl)phthalate			0.11	J	1.5		-		ND		10	E	9.7	
Butyl benzyl phthalate			ND		ND		-		ND		3.7		-	
Di-n-butylphthalate			ND		ND		-		ND		ND		-	
Di-n-octylphthalate			ND		ND		-		ND		ND		-	
Diethyl phthalate			ND		ND		-		ND		ND		-	
Dimethyl phthalate			ND		ND		-		ND		ND		-	
Benzo(a)anthracene	1	1	2.1		30		-		0.14		6.2		-	
Benzo(a)pyrene	1	1	2.5		24		-		0.16		7		-	
Benzo(b)fluoranthene	1	1	2.9		28		-		0.19		8	E	7.6	
Benzo(k)fluoranthene	3.9	0.8	0.93		9.6		-		0.068	J	2.8		-	
Chrysene	3.9	1	2.5		26		-		0.16		6.6		-	
Acenaphthylene	100	100	0.63		6.8		-		0.037	J	0.8		-	
Anthracene	100	100	0.46		12		-		ND		1.2		-	
Benzo(ghi)perylene	100	100	1.4		14		-		0.097	J	3.6		-	
Fluorene	100	30	0.074	J	7		-		ND		0.29		-	

Table 2  
Soil Sampling Analytical Results  
Semivolatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-12 (3-4)		S-13 (5-6)		S-13 (5-6)		S-14 (4-5)		S-15 (5-6)		S-15 (5-6)	
SAMPLING DATE	11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/18/2020	
LAB SAMPLE ID	L2051312-01		L2051312-02		L2051312-02 R1		L2051312-03		L2051312-04		L2051312-04 R1	
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Semivolatile Organics By GC/MS - (mg/kg)</b>												
Phenanthrene	100	100	2.4		47	E	66		0.14		6	-
Dibenzo(a,h)anthracene	0.33	0.33	0.37		4.1		-		0.024	J	1	-
Indeno(1,2,3-cd)pyrene	0.5	0.5	1.4		14		-		0.099	J	3.9	-
Pyrene	100	100	4		44	E	63		0.25		10	E
Biphenyl			ND		0.75	J	-		ND		0.042	J
4-Chloroaniline			ND		ND		-		ND		ND	-
2-Nitroaniline			ND		ND		-		ND		ND	-
3-Nitroaniline			ND		ND		-		ND		ND	-
4-Nitroaniline			ND		ND		-		ND		ND	-
Dibenzofuran	59	7	0.14	J	4		-		ND		0.2	-
2-Methylnaphthalene			0.038	J	1.8		-		ND		0.14	J
1,2,4,5-Tetrachlorobenzene			ND		ND		-		ND		ND	-
Acetophenone			ND		ND		-		ND		ND	-
2,4,6-Trichlorophenol			ND		ND		-		ND		ND	-
p-Chloro-m-cresol			ND		ND		-		ND		ND	-
2-Chlorophenol			ND		ND		-		ND		ND	-
2,4-Dichlorophenol			ND		ND		-		ND		ND	-
2,4-Dimethylphenol			ND		ND		-		ND		ND	-
2-Nitrophenol			ND		ND		-		ND		ND	-
4-Nitrophenol			ND		ND		-		ND		ND	-
2,4-Dinitrophenol			ND		ND		-		ND		ND	-
4,6-Dinitro-o-cresol			ND		ND		-		ND		ND	-
Pentachlorophenol	6.7	0.8	ND		ND		-		ND		ND	-
Phenol	100	0.33	ND		0.28	J	-		ND		ND	-
2-Methylphenol	100	0.33	ND		ND		-		ND		ND	-
3-Methylphenol/4-Methylphenol	100	0.33	0.031	J	0.47	J	-		ND		0.033	J
2,4,5-Trichlorophenol			ND		ND		-		ND		ND	-
Benzoic Acid			ND		ND		-		ND		ND	-
Benzyl Alcohol			ND		ND		-		ND		ND	-
Carbazole			0.18		5.6		-		0.017	J	0.58	-
1,4-Dioxane	13	0.1	ND		ND		-		ND		ND	-
Total SVOCs			26.315	-	333.2	-	196	-	1.642	-	82.365	-

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

E - Concentration exceeds the range of the calibration curve for the laboratory instrument

Table 2  
 Soil Sampling Analytical Results  
 Semivolatile Organic Compounds  
 327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-12 (3-4)		S-13 (5-6)		S-13 (5-6)		S-14 (4-5)		S-15 (5-6)		S-15 (5-6)		
SAMPLING DATE		11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/18/2020		
LAB SAMPLE ID		L2051312-01		L2051312-02		L2051312-02 R1		L2051312-03		L2051312-04		L2051312-04 R1		
SAMPLE TYPE		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Semivolatile Organics By GC/MS - (mg/kg)</b>														

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

**Red Highlight - Exceeds RRSCO**

Table 2  
Soil Sampling Analytical Results  
Semivolatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-16 (4-5)		S-17 (2-3)		S-18 (3-4)		S-19 (2-3)		S-20 (4-5)		S-21 (3-4)			
SAMPLING DATE	11/18/2020		11/18/2020		11/18/2020		11/19/2020		11/19/2020		11/19/2020			
LAB SAMPLE ID	L2051312-05		L2051312-06		L2051312-07		L2051740-01		L2051740-02		L2051740-03			
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL			
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
<b>Semivolatile Organics By GC/MS - (mg/kg)</b>														
Acenaphthene	100	20	ND		ND		ND		ND		0.045	J	0.02	J
1,2,4-Trichlorobenzene			ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	1.2	0.33	ND		ND		ND		ND		ND		ND	
Bis(2-chloroethyl)ether			ND		ND		ND		ND		ND		ND	
2-Chloronaphthalene			ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	100	1.1	ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	49	2.4	ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	13	1.8	ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine			ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene			ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene			ND		ND		ND		ND		ND		ND	
Fluoranthene	100	100	0.44		1.4		1.5		0.64		1.8		1.5	
4-Chlorophenyl phenyl ether			ND		ND		ND		ND		ND		ND	
4-Bromophenyl phenyl ether			ND		ND		ND		ND		ND		ND	
Bis(2-chloroisopropyl)ether			ND		ND		ND		ND		ND		ND	
Bis(2-chloroethoxy)methane			ND		ND		ND		ND		ND		ND	
Hexachlorobutadiene			ND		ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene			ND		ND		ND		ND		ND		ND	
Hexachloroethane			ND		ND		ND		ND		ND		ND	
Isophorone			ND		ND		ND		ND		ND		ND	
Naphthalene	100	12	ND		ND		0.03	J	ND		0.091	J	0.043	J
Nitrobenzene			ND		ND		ND		ND		ND		ND	
NDPA/DPA			ND		ND		ND		ND		ND		ND	
n-Nitrosodi-n-propylamine			ND		ND		ND		ND		ND		ND	
Bis(2-ethylhexyl)phthalate			0.22		ND		0.29		ND		0.4		0.092	J
Butyl benzyl phthalate			0.13	J	0.31	J	3.6		ND		ND		ND	
Di-n-butylphthalate			ND		ND		ND		ND		ND		ND	
Di-n-octylphthalate			ND		ND		ND		ND		ND		ND	
Diethyl phthalate			ND		ND		ND		ND		ND		ND	
Dimethyl phthalate			ND		ND		ND		ND		ND		ND	
Benzo(a)anthracene	1	1	0.38		0.84		1.5		0.51		1		1.2	
Benzo(a)pyrene	1	1	0.58		0.86		1.2		0.45		0.94		1.2	
Benzo(b)fluoranthene	1	1	0.6		0.95		1.5		0.53		1.1		1.3	
Benzo(k)fluoranthene	3.9	0.8	0.18		0.41	J	0.52		0.14		0.37		0.42	
Chrysene	3.9	1	0.44		0.78		1.8		0.63		1.2		1.5	
Acenaphthylene	100	100	0.04	J	ND		0.18		0.071	J	0.32		0.19	
Anthracene	100	100	0.047	J	ND		0.19		0.06	J	0.25		0.15	
Benzo(ghi)perylene	100	100	0.35		0.64	J	0.83		0.29		0.65		0.71	
Fluorene	100	30	ND		ND		0.036	J	ND		0.085	J	0.038	J

Table 2  
Soil Sampling Analytical Results  
Semivolatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-16 (4-5)		S-17 (2-3)		S-18 (3-4)		S-19 (2-3)		S-20 (4-5)		S-21 (3-4)		
SAMPLING DATE	11/18/2020		11/18/2020		11/18/2020		11/19/2020		11/19/2020		11/19/2020		
LAB SAMPLE ID	L2051312-05		L2051312-06		L2051312-07		L2051740-01		L2051740-02		L2051740-03		
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
<b>Semivolatile Organics By GC/MS - (mg/kg)</b>													
Phenanthrene	100	100	0.18		0.63		0.62		0.37		1.3		0.93
Dibenzo(a,h)anthracene	0.33	0.33	0.084	J	0.13	J	0.24		0.073	J	0.15		0.18
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.33		0.58	J	0.75		0.24		0.6		0.63
Pyrene	100	100	0.57		1.5		2.2		0.97		2		2.1
Biphenyl			ND		ND		ND		ND		ND		ND
4-Chloroaniline			ND		ND		ND		ND		ND		ND
2-Nitroaniline			ND		ND		ND		ND		ND		ND
3-Nitroaniline			ND		ND		ND		ND		ND		ND
4-Nitroaniline			ND		ND		ND		ND		ND		ND
Dibenzofuran	59	7	ND		ND		ND		ND		0.051	J	0.024
2-Methylnaphthalene			ND		ND		ND		ND		0.044	J	ND
1,2,4,5-Tetrachlorobenzene			ND		ND		ND		ND		ND		ND
Acetophenone			ND		ND		ND		ND		ND		ND
2,4,6-Trichlorophenol			ND		ND		ND		ND		ND		ND
p-Chloro-m-cresol			ND		ND		ND		ND		ND		ND
2-Chlorophenol			ND		ND		ND		ND		ND		ND
2,4-Dichlorophenol			ND		ND		ND		ND		ND		ND
2,4-Dimethylphenol			ND		ND		ND		ND		ND		ND
2-Nitrophenol			ND		ND		ND		ND		ND		ND
4-Nitrophenol			ND		ND		ND		ND		ND		ND
2,4-Dinitrophenol			ND		ND		ND		ND		ND		ND
4,6-Dinitro-o-cresol			ND		ND		ND		ND		ND		ND
Pentachlorophenol	6.7	0.8	ND		ND		ND		ND		ND		ND
Phenol	100	0.33	ND		ND		ND		ND		ND		ND
2-Methylphenol	100	0.33	ND		ND		ND		ND		ND		ND
3-Methylphenol/4-Methylphenol	100	0.33	ND		ND		ND		ND		ND		ND
2,4,5-Trichlorophenol			ND		ND		ND		ND		ND		ND
Benzoic Acid			ND		ND		ND		ND		ND		ND
Benzyl Alcohol			ND		ND		ND		ND		ND		ND
Carbazole			0.03	J	ND		0.053	J	0.025	J	0.12	J	0.075
1,4-Dioxane	13	0.1	ND		ND		ND		ND		ND		ND
Total SVOCs			4.601	-	9.03	-	17.039	-	4.999	-	12.516	-	12.302

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

E - Concentration exceeds the range of the calibration curve for the laboratory instrument



Table 2  
 Soil Sampling Analytical Results  
 Semivolatile Organic Compounds  
 327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-16 (4-5)		S-17 (2-3)		S-18 (3-4)		S-19 (2-3)		S-20 (4-5)		S-21 (3-4)		
SAMPLING DATE		11/18/2020		11/18/2020		11/18/2020		11/19/2020		11/19/2020		11/19/2020		
LAB SAMPLE ID		L2051312-05		L2051312-06		L2051312-07		L2051740-01		L2051740-02		L2051740-03		
SAMPLE TYPE		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Semivolatile Organics By GC/MS - (mg/kg)</b>														

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

**Red Highlight - Exceeds RRSCO**

Table 3 - Soil Sampling Analytical Results  
Pesticides and PCBs  
327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-1 (2-3)		S-2 (3-4)		S-2 (3-4)		S-3 (1-2)		S-4 (4-5)		
SAMPLING DATE		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		
LAB SAMPLE ID		L2046080-01		L2046080-02		L2046080-02 R1		L2046080-03		L2046080-04		
SAMPLE TYPE		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Organochlorine Pesticides By GC - (mg/kg)</b>												
Delta-BHC	100	0.04	ND		ND		-		ND		ND	
Lindane	1.3	0.1	ND		ND		-		ND		ND	
Alpha-BHC	0.48	0.02	ND		ND		-		ND		ND	
Beta-BHC	0.36	0.036	ND		ND		-		ND		ND	
Heptachlor	2.1	0.042	ND		ND		-		ND		ND	
Aldrin	0.097	0.005	ND		ND		-		ND		ND	
Heptachlor epoxide	NC	NC	ND		0.0322	P	-		0.00177	JIP	ND	
Endrin	11	0.014	ND		ND		-		ND		ND	
Endrin aldehyde	NC	NC	ND		ND		-		ND		ND	
Endrin ketone	NC	NC	ND		ND		-		ND		ND	
Dieldrin	0.2	0.005	ND		ND		-		ND		0.0124	
4,4'-DDE	8.9	0.0033	0.00306	IP	0.139		-		0.011		0.00997	
4,4'-DDD	13	0.0033	ND		0.0118		-		0.00186	J	0.00547	
4,4'-DDT	7.9	0.0033	0.00664		0.251	E	0.368	P	0.0265		0.0188	
Endosulfan I	24	2.4	ND		ND		-		ND		ND	
Endosulfan II	24	2.4	ND		ND		-		ND		ND	
Endosulfan sulfate	24	2.4	ND		ND		-		ND		ND	
Methoxychlor	NC	NC	ND		ND		-		ND		0.0357	IP
Toxaphene	NC	NC	ND		ND		-		ND		ND	
cis-Chlordane	4.2	0.094	0.00536		0.0222		-		0.00121	JIP	0.00783	
trans-Chlordane	NC	NC	0.00321		0.0487	P	-		0.00262	IP	0.00824	
Chlordane	NC	NC	ND		0.262	P	-		0.0705	P	0.0884	

Table 3 - Soil Sampling Analytical Results  
Pesticides and PCBs  
327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-1 (2-3)		S-2 (3-4)		S-2 (3-4)		S-3 (1-2)		S-4 (4-5)		
SAMPLING DATE		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		
LAB SAMPLE ID		L2046080-01		L2046080-02		L2046080-02 R1		L2046080-03		L2046080-04		
SAMPLE TYPE		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>PCBs By GC - (mg/kg)</b>												
Aroclor 1016	1	0.1	ND		ND		-		ND		ND	
Aroclor 1221	1	0.1	ND		ND		-		ND		ND	
Aroclor 1232	1	0.1	ND		ND		-		ND		ND	
Aroclor 1242	1	0.1	ND		ND		-		ND		ND	
Aroclor 1248	1	0.1	ND		ND		-		ND		ND	
Aroclor 1254	1	0.1	0.0635	P	4.64		-		0.406		0.0149	J
Aroclor 1260	1	0.1	ND		ND		-		ND		ND	
Aroclor 1262	1	0.1	ND		ND		-		ND		ND	
Aroclor 1268	1	0.1	ND		ND		-		ND		ND	
PCBs, Total	1	0.1	0.0635		4.64		-		0.406		0.0149	J

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

P - The RPD exceeds the method specific criteria

RPD - Relative Percent Difference calculated during laboratory QA/QC.

I - Lower value reported due to laboratory interference

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

**Red Highlight - Exceeds RRSCO**

Table 3 - Soil Sampling Analytical Results  
Pesticides and PCBs  
327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-5 (2-3)		S-5 (2-3)		S-6 (5-6)		S-7 (5-6)		S-8 (8-9)		S-9 (4-5)	
SAMPLING DATE	10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
LAB SAMPLE ID	L2046080-05		L2046080-05 R1		L2046080-06		L2046080-07		L2046080-08		L2046080-09	
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Organochlorine Pesticides By GC - (mg/kg)</b>												
Delta-BHC	100	0.04	ND		-		ND		ND		ND	
Lindane	1.3	0.1	ND		-		ND		ND		ND	
Alpha-BHC	0.48	0.02	ND		-		ND		ND		ND	
Beta-BHC	0.36	0.036	ND		-		ND		ND		ND	
Heptachlor	2.1	0.042	ND		-		ND		ND		ND	
Aldrin	0.097	0.005	ND		-		ND		ND		ND	
Heptachlor epoxide	NC	NC	0.00246	JIP	-		ND		ND		0.000953	JP
Endrin	11	0.014	ND		-		ND		ND		ND	
Endrin aldehyde	NC	NC	ND		-		ND		ND		ND	
Endrin ketone	NC	NC	ND		-		ND		ND		ND	
Dieldrin	0.2	0.005	0.00319		-		0.00349		ND		0.00102	JIP
4,4'-DDE	8.9	0.0033	0.123		-		0.0114		ND		0.0102	
4,4'-DDD	13	0.0033	0.0149		-		0.00162	J	ND		0.00384	
4,4'-DDT	7.9	0.0033	0.677	E	1.09		0.00717		0.00646		0.042	
Endosulfan I	24	2.4	ND		-		ND		ND		ND	
Endosulfan II	24	2.4	ND		-		ND		ND		ND	
Endosulfan sulfate	24	2.4	ND		-		ND		ND		ND	
Methoxychlor	NC	NC	ND		-		0.00285	JIP	0.00438		ND	
Toxaphene	NC	NC	ND		-		ND		ND		ND	
cis-Chlordane	4.2	0.094	0.00455		-		0.00334		0.0325		0.0268	
trans-Chlordane	NC	NC	0.00307	IP	-		0.0034		0.0328		0.00922	
Chlordane	NC	NC	0.0736		-		0.0563		0.287		0.329	P

Table 3 - Soil Sampling Analytical Results  
Pesticides and PCBs  
327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-5 (2-3)		S-5 (2-3)		S-6 (5-6)		S-7 (5-6)		S-8 (8-9)		S-9 (4-5)		
SAMPLING DATE		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		
LAB SAMPLE ID		L2046080-05		L2046080-05 R1		L2046080-06		L2046080-07		L2046080-08		L2046080-09		
SAMPLE TYPE		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>PCBs By GC - (mg/kg)</b>														
Aroclor 1016	1	0.1	ND		-		ND		ND		ND		ND	
Aroclor 1221	1	0.1	ND		-		ND		ND		ND		ND	
Aroclor 1232	1	0.1	ND		-		ND		ND		ND		ND	
Aroclor 1242	1	0.1	ND		-		ND		ND		ND		ND	
Aroclor 1248	1	0.1	ND		-		ND		ND		ND		ND	
Aroclor 1254	1	0.1	0.112		-		0.0175	J	ND		ND		0.0263	J
Aroclor 1260	1	0.1	ND		-		ND		ND		ND		ND	
Aroclor 1262	1	0.1	ND		-		ND		ND		ND		ND	
Aroclor 1268	1	0.1	ND		-		ND		ND		ND		ND	
PCBs, Total	1	0.1	0.112		-		0.0175	J	ND		ND		0.0263	J

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

P - The RPD exceeds the method specific criteria

RPD - Relative Percent Difference calculated during laboratory QA/QC.

I - Lower value reported due to laboratory interference

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

**Red Highlight - Exceeds RRSCO**

Table 3 - Soil Sampling Analytical Results  
Pesticides and PCBs  
327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-10 (6-7)		S-11 (2-3)		S-12 (3-4)		S-13 (5-6)		S-13 (5-6)		S-14 (4-5)		
SAMPLING DATE		10/22/2020		10/22/2020		11/18/2020		11/18/2020		11/18/2020		11/18/2020		
LAB SAMPLE ID		L2046080-10		L2046080-11		L2051312-01		L2051312-02		L2051312-02 R1		L2051312-03		
SAMPLE TYPE		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Organochlorine Pesticides By GC - (mg/kg)</b>														
Delta-BHC	100	0.04	ND		ND		ND		ND		-		ND	
Lindane	1.3	0.1	ND		ND		ND		ND		-		ND	
Alpha-BHC	0.48	0.02	ND		ND		ND		ND		-		ND	
Beta-BHC	0.36	0.036	ND		ND		ND		ND		-		ND	
Heptachlor	2.1	0.042	ND		ND		ND		ND		-		ND	
Aldrin	0.097	0.005	ND		ND		ND		ND		-		ND	
Heptachlor epoxide	NC	NC	ND		ND		ND		ND		-		ND	
Endrin	11	0.014	ND		ND		ND		ND		-		ND	
Endrin aldehyde	NC	NC	ND		ND		ND		ND		-		ND	
Endrin ketone	NC	NC	ND		ND		ND		ND		-		ND	
Dieldrin	0.2	0.005	0.000892	JIP	ND		0.00975		0.0172	IP	-		0.00385	
4,4'-DDE	8.9	0.0033	0.00658		0.0213		0.0296		0.0993		-		0.18	E
4,4'-DDD	13	0.0033	0.00133	JIP	0.00202		0.00833		0.02		-		0.00668	
4,4'-DDT	7.9	0.0033	0.00877	IP	0.0424		0.0574		0.447	E	0.509		0.207	E
Endosulfan I	24	2.4	ND		ND		ND		ND		-		ND	
Endosulfan II	24	2.4	ND		ND		ND		ND		-		ND	
Endosulfan sulfate	24	2.4	ND		ND		ND		ND		-		ND	
Methoxychlor	NC	NC	ND		ND		0.0105	IP	0.352	PE	0.409		ND	
Toxaphene	NC	NC	ND		ND		ND		ND		-		ND	
cis-Chlordane	4.2	0.094	ND		0.00595		0.0225		0.524	E	0.418	IP	0.00522	
trans-Chlordane	NC	NC	0.00232		0.00772		0.0202		0.379	E	0.479		0.00607	IP
Chlordane	NC	NC	0.0301		0.0605		0.198		2.71	E	2.5		0.115	P

Table 3 - Soil Sampling Analytical Results  
Pesticides and PCBs  
327-329 Huguenot Street, New Rochelle, New York

LOCATION			S-10 (6-7)		S-11 (2-3)		S-12 (3-4)		S-13 (5-6)		S-13 (5-6)		S-14 (4-5)	
SAMPLING DATE			10/22/2020		10/22/2020		11/18/2020		11/18/2020		11/18/2020		11/18/2020	
LAB SAMPLE ID			L2046080-10		L2046080-11		L2051312-01		L2051312-02		L2051312-02 R1		L2051312-03	
SAMPLE TYPE			SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>PCBs By GC - (mg/kg)</b>														
Aroclor 1016	1	0.1	ND		ND		ND		ND		-		ND	
Aroclor 1221	1	0.1	ND		ND		ND		ND		-		ND	
Aroclor 1232	1	0.1	ND		ND		ND		ND		-		ND	
Aroclor 1242	1	0.1	ND		ND		ND		ND		-		ND	
Aroclor 1248	1	0.1	ND		ND		ND		ND		-		ND	
Aroclor 1254	1	0.1	ND		ND		0.0169	J	ND		-		0.0448	
Aroclor 1260	1	0.1	ND		ND		ND		ND		-		ND	
Aroclor 1262	1	0.1	ND		ND		ND		ND		-		ND	
Aroclor 1268	1	0.1	ND		ND		ND		ND		-		ND	
PCBs, Total	1	0.1	ND		ND		0.0169	J	ND		-		0.0448	

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

P - The RPD exceeds the method specific criteria

RPD - Relative Percent Difference calculated during laboratory QA/QC.

I - Lower value reported due to laboratory interference

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

**Red Highlight - Exceeds RRSCO**

Table 3 - Soil Sampling Analytical Results  
Pesticides and PCBs  
327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-14 (4-5)		S-15 (5-6)		S-16 (4-5)		S-16 (4-5)		S-17 (2-3)		S-18 (3-4)			
SAMPLING DATE	11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/18/2020			
LAB SAMPLE ID	L2051312-03 R1		L2051312-04		L2051312-05		L2051312-05 R1		L2051312-06		L2051312-07			
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL			
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
<b>Organochlorine Pesticides By GC - (mg/kg)</b>														
Delta-BHC	100	0.04	-		ND		ND		-		ND		ND	
Lindane	1.3	0.1	-		ND		ND		-		ND		ND	
Alpha-BHC	0.48	0.02	-		ND		ND		-		ND		ND	
Beta-BHC	0.36	0.036	-		ND		ND		-		ND		ND	
Heptachlor	2.1	0.042	-		ND		ND		-		ND		ND	
Aldrin	0.097	0.005	-		ND		ND		-		ND		ND	
Heptachlor epoxide	NC	NC	-		ND		0.00421		-		ND		ND	
Endrin	11	0.014	-		ND		ND		-		ND		ND	
Endrin aldehyde	NC	NC	-		ND		ND		-		ND		ND	
Endrin ketone	NC	NC	-		ND		ND		-		ND		ND	
Dieldrin	0.2	0.005	-		0.00696		0.0124		-		ND		ND	
4,4'-DDE	8.9	0.0033	0.18		0.0183	IP	0.106		-		0.00583		ND	
4,4'-DDD	13	0.0033	-		0.00543		0.0164		-		ND		ND	
4,4'-DDT	7.9	0.0033	0.209		0.0955		0.22	E	0.34		0.0131	IP	0.00936	IP
Endosulfan I	24	2.4	-		ND		ND		-		ND		ND	
Endosulfan II	24	2.4	-		ND		ND		-		ND		ND	
Endosulfan sulfate	24	2.4	-		ND		ND		-		ND		ND	
Methoxychlor	NC	NC	-		ND		ND		-		ND		ND	
Toxaphene	NC	NC	-		ND		ND		-		ND		ND	
cis-Chlordane	4.2	0.094	-		0.0074		0.0149		-		0.00535		0.00691	
trans-Chlordane	NC	NC	-		0.00835		0.0144		-		0.00708		0.00852	
Chlordane	NC	NC	-		0.136		0.139	P	-		0.0924		0.078	IP



Table 3 - Soil Sampling Analytical Results  
Pesticides and PCBs  
327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-14 (4-5)		S-15 (5-6)		S-16 (4-5)		S-16 (4-5)		S-17 (2-3)		S-18 (3-4)		
SAMPLING DATE		11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/18/2020		
LAB SAMPLE ID		L2051312-03 R1		L2051312-04		L2051312-05		L2051312-05 R1		L2051312-06		L2051312-07		
SAMPLE TYPE		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>PCBs By GC - (mg/kg)</b>														
Aroclor 1016	1	0.1	-		ND		ND		-		ND		ND	
Aroclor 1221	1	0.1	-		ND		ND		-		ND		ND	
Aroclor 1232	1	0.1	-		ND		ND		-		ND		ND	
Aroclor 1242	1	0.1	-		ND		ND		-		ND		ND	
Aroclor 1248	1	0.1	-		ND		ND		-		ND		ND	
Aroclor 1254	1	0.1	-		0.0122	J	0.0602		-		0.223		0.261	
Aroclor 1260	1	0.1	-		ND		ND		-		ND		ND	
Aroclor 1262	1	0.1	-		ND		ND		-		ND		ND	
Aroclor 1268	1	0.1	-		ND		ND		-		ND		ND	
PCBs, Total	1	0.1	-		0.0122	J	0.0602		-		0.223		0.261	

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

P - The RPD exceeds the method specific criteria

RPD - Relative Percent Difference calculated during laboratory QA/QC.

I - Lower value reported due to laboratory interference

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

**Red Highlight - Exceeds RRSCO**

Table 3 - Soil Sampling Analytical Results  
Pesticides and PCBs  
327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-19 (2-3)	S-20 (4-5)	S-20 (4-5)	S-20 (4-5)	S-20 (4-5)	S-21 (3-4)						
SAMPLING DATE		11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020						
LAB SAMPLE ID		L2051740-01	L2051740-02	L2051740-02 R1	L2051740-02 R2	L2051740-02 R3	L2051740-03						
SAMPLE TYPE		SOIL		SOIL		SOIL							
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
<b>Organochlorine Pesticides By GC - (mg/kg)</b>													
Delta-BHC	100	0.04	ND		ND		-		-		-		ND
Lindane	1.3	0.1	ND		ND		-		-		-		ND
Alpha-BHC	0.48	0.02	ND		ND		-		-		-		ND
Beta-BHC	0.36	0.036	ND		ND		-		-		-		ND
Heptachlor	2.1	0.042	ND		ND		-		-		-		ND
Aldrin	0.097	0.005	ND		ND		-		-		-		ND
Heptachlor epoxide	NC	NC	ND		ND		-		-		-		ND
Endrin	11	0.014	ND		ND		-		-		-		ND
Endrin aldehyde	NC	NC	ND		ND		-		-		-		ND
Endrin ketone	NC	NC	ND		ND		-		-		-		ND
Dieldrin	0.2	0.005	0.0103		0.144		-		-		-		0.00558
4,4'-DDE	8.9	0.0033	0.0284		2.19	E	-		5.24		-		0.0103
4,4'-DDD	13	0.0033	ND		0.505	E	0.948		-		-		ND
4,4'-DDT	7.9	0.0033	0.1		3.56	E	-		-		19.4		0.044
Endosulfan I	24	2.4	ND		ND		-		-		-		ND
Endosulfan II	24	2.4	ND		ND		-		-		-		ND
Endosulfan sulfate	24	2.4	ND		ND		-		-		-		ND
Methoxychlor	NC	NC	ND		ND		-		-		-		ND
Toxaphene	NC	NC	ND		ND		-		-		-		ND
cis-Chlordane	4.2	0.094	0.0174		0.261	E	0.33	IP	-		-		0.00608
trans-Chlordane	NC	NC	0.0216		0.234	E	0.412		-		-		0.00847
Chlordane	NC	NC	0.137		1.48	E	2.25		-		-		0.0654

Table 3 - Soil Sampling Analytical Results  
Pesticides and PCBs  
327-329 Huguenot Street, New Rochelle, New York

LOCATION		S-19 (2-3)	S-20 (4-5)	S-20 (4-5)	S-20 (4-5)	S-20 (4-5)	S-21 (3-4)							
SAMPLING DATE		11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020							
LAB SAMPLE ID		L2051740-01	L2051740-02	L2051740-02 R1	L2051740-02 R2	L2051740-02 R3	L2051740-03							
SAMPLE TYPE		SOIL		SOIL		SOIL								
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
<b>PCBs By GC - (mg/kg)</b>														
Aroclor 1016	1	0.1	ND		ND		-		-		-		ND	
Aroclor 1221	1	0.1	ND		ND		-		-		-		ND	
Aroclor 1232	1	0.1	ND		ND		-		-		-		ND	
Aroclor 1242	1	0.1	ND		ND		-		-		-		ND	
Aroclor 1248	1	0.1	ND		ND		-		-		-		ND	
Aroclor 1254	1	0.1	0.0424		0.0241	J	-		-		-		0.00432	J
Aroclor 1260	1	0.1	ND		ND		-		-		-		ND	
Aroclor 1262	1	0.1	ND		ND		-		-		-		ND	
Aroclor 1268	1	0.1	ND		ND		-		-		-		ND	
PCBs, Total	1	0.1	0.0424		0.0241	J	-		-		-		0.00432	J

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

P - The RPD exceeds the method specific criteria

RPD - Relative Percent Difference calculated during laboratory QA/QC.

I - Lower value reported due to laboratory interference

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

**Red Highlight - Exceeds RRSCO**

Table 4 - Soil Sampling Analytical Results  
 Total Metals  
 327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-1 (2-3)		S-2 (3-4)		S-3 (1-2)		S-4 (4-5)		S-5 (2-3)		S-6 (5-6)		S-7 (5-6)		
SAMPLING DATE	10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		
LAB SAMPLE ID	L2046080-01		L2046080-02		L2046080-03		L2046080-04		L2046080-05		L2046080-06		L2046080-07		
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
<b>Total Metals By GC/MS - (mg/kg)</b>															
Aluminum, Total	NC	NC	6180		3100		7710		8400		6440		4730		9670
Antimony, Total	NC	NC	ND		ND		ND		ND		ND		ND		ND
Arsenic, Total	16	13	1.22		2.23		2.16		1.48		3.72		3.29		ND
Barium, Total	400	350	49.3		774		92.4		86.4		409		133		93.4
Beryllium, Total	72	7.2	0.182	J	0.144	J	0.094	J	0.185	J	0.275	J	0.201	J	0.044
Cadmium, Total	4.3	2.5	0.174	J	0.874	J	0.292	J	0.282	J	0.275	J	0.252	J	0.239
Calcium, Total	NC	NC	7360		30900		33000		16900		46700		44200		422
Chromium, Total	NC	NC	10.3		7.35		18.4		100		8.94		6.74		35.7
Cobalt, Total	NC	NC	6.29		2.98		7.47		9.82		4.04		2.85		13.1
Copper, Total	270	50	16.3		9.99		17.2		17.2		6.95		6.4		17.5
Iron, Total	NC	NC	10700		3850		13000		18000		7120		5670		17200
Lead, Total	400	63	10.8		1190		28.7		18.7		323		319		4.84
Magnesium, Total	NC	NC	3090		4240		18400		8390		7860		9690		5410
Manganese, Total	2000	1600	386		79		282		520		158		118		609
Mercury, Total	0.81	0.18	ND		0.258		ND		0.052	J	0.113		ND		ND
Nickel, Total	310	30	10.6		6.53		14		50.5		6.85		6.01		29.7
Potassium, Total	NC	NC	1450		540		3450		3460		1160		750		4450
Selenium, Total	180	3.9	ND		ND		0.48	J	0.397	J	0.597	J	0.335	J	0.399
Silver, Total	180	2	ND		ND		ND		ND		ND		ND		ND
Sodium, Total	NC	NC	452		542		392		486		902		599		399
Thallium, Total	NC	NC	ND		ND		ND		ND		ND		ND		ND
Vanadium, Total	NC	NC	16.8		25.3		24.7		28.1		23.5		35.2		25.9
Zinc, Total	10000	109	17.8		604		49.9		35.4		178		75.4		35.4
<b>General Chemistry - (mg/kg)</b>															
Solids, Total	NC	NC	91.8		88.4		82.5		87.2		85.3		91.6		86.3
Cyanide, Total	27	27	0.5	J	ND		0.38	J	ND		ND		ND		ND

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND: Indicates the analyte was analyzed for but detected

Yellow Highlight - Exceeds USCO

Red Highlight - Exceeds RRSCO

Table 4 - Soil Sampling Analytical Results  
Total Metals  
327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-8 (8-9)		S-9 (4-5)		S-10 (6-7)		S-11 (2-3)		S-12 (3-4)		S-13 (5-6)		S-14 (4-5)	
SAMPLING DATE	10/22/2020		10/22/2020		10/22/2020		10/22/2020		11/18/2020		11/18/2020		11/18/2020	
LAB SAMPLE ID	L2046080-08		L2046080-09		L2046080-10		L2046080-11		L2051312-01		L2051312-02		L2051312-03	
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Total Metals By GC/MS - (mg/kg)</b>														
Aluminum, Total	NC	NC	8080		6500		4110		3040		6890		6180	6600
Antimony, Total	NC	NC	ND		ND		ND		ND		ND		ND	ND
Arsenic, Total	16	13	0.6	J	0.253	J	3.07		1.85		3.88		4.35	2.83
Barium, Total	400	350	60.7		49.5		173		55.6		95.6		776	70.5
Beryllium, Total	72	7.2	ND		0.076	J	0.176	J	0.065	J	ND		ND	ND
Cadmium, Total	4.3	2.5	0.203	J	0.126	J	0.185	J	0.194	J	0.647	J	2.6	0.515 J
Calcium, Total	NC	NC	3130		3530		37800		49200		53100		49600	55500
Chromium, Total	NC	NC	13.2		13.8		5.69		8.97		11.2		19.3	11.6
Cobalt, Total	NC	NC	7.95		4.65		2.58		3.86		5.51		5.64	8.29
Copper, Total	270	50	14.4		6.59		6.01		17.3		21.8		25.3	35.5
Iron, Total	NC	NC	13400		7860		7030		7590		10800		10600	9620
Lead, Total	400	63	3.79	J	8.16		299		70.4		99.2		964	16.1
Magnesium, Total	NC	NC	4110		2990		8550		20600		15800		11800	7310
Manganese, Total	2000	1600	289		188		116		127		212		200	266
Mercury, Total	0.81	0.18	ND		ND		ND		ND		ND		1.82	0.068 J
Nickel, Total	310	30	14.8		20.3		5.26		7.64		10.7		14.1	18.4
Potassium, Total	NC	NC	4550		2220		680		1030		1400		2130	2080
Selenium, Total	180	3.9	ND		ND		0.273	J	0.36	J	ND		0.805	0.684 J
Silver, Total	180	2	ND		ND		ND		ND		ND		ND	ND
Sodium, Total	NC	NC	269		232		658		505		846		473	338
Thallium, Total	NC	NC	ND		ND		ND		ND		ND		ND	ND
Vanadium, Total	NC	NC	14.4		11.6		19.4		17.1		24.9		25	44.2
Zinc, Total	10000	109	31.8		19.8		89.9		50.8		101		1030	85.9
<b>General Chemistry - (mg/kg)</b>														
Solids, Total	NC	NC	81.5		92		88.5		82.7		89.3		91.4	94.3
Cyanide, Total	27	27	ND		ND		ND		ND		ND		ND	ND

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum.

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

**Red Highlight - Exceeds RRSCO**

Table 4 - Soil Sampling Analytical Results  
Total Metals  
327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-15 (5-6)		S-16 (4-5)		S-17 (2-3)		S-18 (3-4)		S-19 (2-3)		S-20 (4-5)		S-21 (3-4)			
SAMPLING DATE	11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/19/2020		11/19/2020		11/19/2020			
LAB SAMPLE ID	L2051312-04		L2051312-05		L2051312-06		L2051312-07		L2051740-01		L2051740-02		L2051740-03			
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL			
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q		
<b>Total Metals By GC/MS - (mg/kg)</b>																
Aluminum, Total	NC	NC	5910		6370		5450		5160		4750		4850		5490	
Antimony, Total	NC	NC	ND		ND		ND		ND		3.8	J	ND		ND	
Arsenic, Total	16	13	4.24		4.62		3.78		2.75		16.1		3.94		7.13	
Barium, Total	400	350	172		187		364		75.3		713		411		312	
Beryllium, Total	72	7.2	ND		ND		ND		ND		ND		ND		ND	
Cadmium, Total	4.3	2.5	0.289	J	0.598	J	1.07		0.243	J	1.94		0.72	J	0.779	J
Calcium, Total	NC	NC	99000		63300		73900		24300		46200		51400		76800	
Chromium, Total	NC	NC	9.25		11.7		11.1		15.2		15.4		10.7		10	
Cobalt, Total	NC	NC	4		4.53		4.59		4.14		6.03		3.97		4.19	
Copper, Total	270	50	9.91		24.3		9.13		4.49		19.7		15		15.9	
Iron, Total	NC	NC	7160		10300		8540		7390		27500		7580		7210	
Lead, Total	400	63	128		251		203		21.7		2530		615		293	
Magnesium, Total	NC	NC	18900		9400		11000		6110		8250		9490		9240	
Manganese, Total	2000	1600	119		217		186		160		207		152		92.5	
Mercury, Total	0.81	0.18	0.099		0.081		0.417		ND		0.43		0.119		0.203	
Nickel, Total	310	30	9.13		11		8.84		9.52		13.2		8.82		9.92	
Potassium, Total	NC	NC	1090		1710		903		2150		1370		915		966	
Selenium, Total	180	3.9	0.491	J	0.759	J	0.67	J	0.458	J	0.595	J	ND		ND	
Silver, Total	180	2	ND		ND		ND		ND		ND		ND		ND	
Sodium, Total	NC	NC	512		474		994		516		736		778		949	
Thallium, Total	NC	NC	ND		ND		ND		ND		0.532	J	ND		ND	
Vanadium, Total	NC	NC	18.5		28		33.8		28.2		20		26.6		17.5	
Zinc, Total	10000	109	441		186		246		33.9		997		313		231	
<b>General Chemistry - (mg/kg)</b>																
Solids, Total	NC	NC	89.9		88.9		83.6		83.4		84.5		86.2		83.5	
Cyanide, Total	27	27	ND		ND		ND		0.37	J	3.8		ND		ND	

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum.

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

**Red Highlight - Exceeds RRSCO**



Table 5  
Soil Sampling Analytical Results  
PFAS

327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-1 (2-3)		S-2 (3-4)		S-3 (1-2)		S-4 (4-5)		S-5 (2-3)		S-6 (5-6)		S-7 (5-6)	
SAMPLING DATE	10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
LAB SAMPLE ID	L2046080-01		L2046080-02		L2046080-03		L2046080-04		L2046080-05		L2046080-06		L2046080-07	
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
<b>Perfluorinated Alkyl Acids By Isotope Dilution - (mg/kg)</b>														
Perfluorobutanoic Acid (PFBA)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluoropentanoic Acid (PFPeA)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluorobutanesulfonic Acid (PFBS)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluorohexanoic Acid (PFHxA)	NC	NC	ND		0.000065	J	0.000072	J	0.000061	J	ND		0.000058	J
Perfluoroheptanoic Acid (PFHpA)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluorohexanesulfonic Acid (PFHxS)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluorooctanoic Acid (PFOA)	0.033	0.00066	0.000072	J	0.000113	J	ND		ND		ND		ND	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluoroheptanesulfonic Acid (PFHpS)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluorononanoic Acid (PFNA)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluorooctanesulfonic Acid (PFOS)	0.044	0.00088	0.000958		0.000599		0.000424	J	0.000464	J	0.000399	J	0.000197	J
Perfluorodecanoic Acid (PFDA)	NC	NC	ND		ND		ND		ND		ND		ND	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	NC	NC	ND		ND		ND		ND		ND		ND	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluoroundecanoic Acid (PFUnA)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluorodecanesulfonic Acid (PFDS)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluorooctanesulfonamide (FOSA)	NC	NC	ND		ND		ND		ND		ND		ND	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluorododecanoic Acid (PFDoA)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluorotridecanoic Acid (PFTrDA)	NC	NC	ND		ND		ND		ND		ND		ND	
Perfluorotetradecanoic Acid (PFTA)	NC	NC	ND		ND		ND		ND		ND		ND	
PFOA/PFOS, Total	NC	NC	0.00103	J	0.000712	J	0.000424	J	0.000464	J	0.000399	J	0.000197	J

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

Table 5  
Soil Sampling Analytical Results  
PFAS

327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-8 (8-9)		S-9 (4-5)		S-10 (6-7)		S-11 (2-3)		S-12 (3-4)		S-13 (5-6)		S-14 (4-5)		
SAMPLING DATE	10/22/2020		10/22/2020		10/22/2020		10/22/2020		11/18/2020		11/18/2020		11/18/2020		
LAB SAMPLE ID	L2046080-08		L2046080-09		L2046080-10		L2046080-11		L2051312-01		L2051312-02		L2051312-03		
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
<b>Perfluorinated Alkyl Acids By Isotope Dilution - (mg/kg)</b>															
Perfluorobutanoic Acid (PFBA)	NC	NC	ND		ND		ND		ND		ND		ND		ND
Perfluoropentanoic Acid (PFPeA)	NC	NC	ND		ND		0.000072	J	ND		ND		ND		ND
Perfluorobutanesulfonic Acid (PFBS)	NC	NC	ND		ND		ND		ND		ND		ND		ND
Perfluorohexanoic Acid (PFHxA)	NC	NC	0.000059	J	ND		0.000076	J	0.000065	J	ND		0.000084	J	ND
Perfluoroheptanoic Acid (PFHpA)	NC	NC	ND		ND		0.000068	J	ND		ND		0.000052	J	ND
Perfluorohexanesulfonic Acid (PFHxS)	NC	NC	ND		ND		ND		ND		ND		0.000696		ND
Perfluorooctanoic Acid (PFOA)	0.033	0.00066	ND		ND		0.000138	JF	ND		0.000087	JF	0.000308	JF	ND
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	NC	NC	ND		ND		ND		ND		ND		ND		ND
Perfluoroheptanesulfonic Acid (PFHpS)	NC	NC	ND		ND		ND		ND		ND		ND		ND
Perfluorononanoic Acid (PFNA)	NC	NC	ND		ND		0.000115	J	ND		ND		ND		ND
Perfluorooctanesulfonic Acid (PFOS)	0.044	0.00088	0.000159	J	0.000333	JF	0.00081	F	0.000574	F	0.000946	F	0.00347	F	0.000781
Perfluorodecanoic Acid (PFDA)	NC	NC	ND		ND		0.00009	J	ND		ND		0.000096	J	ND
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	NC	NC	ND		ND		ND		ND		ND		ND		ND
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NC	NC	ND		ND		ND		ND		ND		ND		ND
Perfluoroundecanoic Acid (PFUnA)	NC	NC	ND		ND		ND		ND		ND		ND		ND
Perfluorodecanesulfonic Acid (PFDS)	NC	NC	ND		ND		ND		ND		ND		ND		ND
Perfluorooctanesulfonamide (FOSA)	NC	NC	ND		ND		ND		ND		ND		ND		ND
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NC	NC	ND		ND		ND		ND		ND		ND		ND
Perfluorododecanoic Acid (PFDoA)	NC	NC	ND		ND		ND		ND		ND		ND		ND
Perfluorotridecanoic Acid (PFTrDA)	NC	NC	ND		ND		ND		ND		ND		ND		ND
Perfluorotetradecanoic Acid (PFTrDA)	NC	NC	ND		ND		ND		ND		ND		ND		ND
PFOA/PFOS, Total	NC	NC	0.000159	J	0.000333	J	0.000948	J	0.000574		0.00103	J	0.00378	J	0.000781

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

Table 5  
Soil Sampling Analytical Results  
PFAS

327-329 Huguenot Street, New Rochelle, New York

LOCATION	S-15 (5-6)		S-16 (4-5)		S-17 (2-3)		S-18 (3-4)		S-19 (2-3)		S-20 (4-5)		S-21 (3-4)		
SAMPLING DATE	11/18/2020		11/18/2020		11/18/2020		11/18/2020		11/19/2020		11/19/2020		11/19/2020		
LAB SAMPLE ID	L2051312-04		L2051312-05		L2051312-06		L2051312-07		L2051740-01		L2051740-02		L2051740-03		
SAMPLE TYPE	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		
	RRSCO	USCO	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
<b>Perfluorinated Alkyl Acids By Isotope Dilution - (mg/kg)</b>															
Perfluorobutanoic Acid (PFBA)	NC	NC	ND		ND		ND		ND		ND		ND		
Perfluoropentanoic Acid (PFPeA)	NC	NC	ND		ND		0.000142	J	ND		ND		0.000051	J	
Perfluorobutanesulfonic Acid (PFBS)	NC	NC	ND		ND		ND		ND		ND		ND		
Perfluorohexanoic Acid (PFHxA)	NC	NC	ND		0.000057	J	0.000134	JF	0.000057	J	0.000063	J	0.000077	J	
Perfluoroheptanoic Acid (PFHpA)	NC	NC	ND		ND		0.000077	J	ND		ND		ND		
Perfluorohexanesulfonic Acid (PFHxS)	NC	NC	ND		ND		ND		ND		ND		ND		
Perfluorooctanoic Acid (PFOA)	0.033	0.00066	0.000073	JF	0.00005	JF	0.000198	JF	0.000055	JF	0.000145	JF	0.000141	JF	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	NC	NC	ND		ND		ND		ND		ND		ND		
Perfluoroheptanesulfonic Acid (PFHpS)	NC	NC	ND		ND		ND		ND		ND		ND		
Perfluorononanoic Acid (PFNA)	NC	NC	ND		ND		0.0001	J	ND		ND		ND	0.000398	
Perfluorooctanesulfonic Acid (PFOS)	0.044	0.00088	0.00224	F	0.00111	F	0.00212	F	0.00032	JF	0.00202	F	0.00145	F	
Perfluorodecanoic Acid (PFDA)	NC	NC	0.000114	J	ND		0.000146	J	ND		0.000125	J	ND	0.000146	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	NC	NC	ND		ND		ND		ND		ND		ND		
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NC	NC	ND		ND		ND		ND		ND		ND		
Perfluoroundecanoic Acid (PFUnA)	NC	NC	0.000051	J	ND		ND		ND		0.000068	J	ND	0.000053	
Perfluorodecanesulfonic Acid (PFDS)	NC	NC	ND		ND		ND		ND		0.000784		ND	ND	
Perfluorooctanesulfonamide (FOSA)	NC	NC	ND		ND		ND		ND		ND		ND	ND	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NC	NC	ND		ND		0.00016	JF	ND		ND		0.000182	JF	
Perfluorododecanoic Acid (PFDoA)	NC	NC	ND		ND		ND		ND		ND		ND	ND	
Perfluorotridecanoic Acid (PFTrDA)	NC	NC	ND		ND		ND		ND		ND		ND	ND	
Perfluorotetradecanoic Acid (PFTA)	NC	NC	ND		ND		ND		ND		ND		ND	ND	
PFOA/PFOS, Total	NC	NC	0.00231	J	0.00116	J	0.00232	J	0.000375	J	0.00217	J	0.00159	J	

Notes:

RRSCO: NY - New York NYCRR Part 375 Restricted-Residential Criteria

USCO: NY - New York NYCRR Part 375 New York Unrestricted use Criteria

NC - No Criteria

mg/kg - milligrams per kilogram

Q - Laboratory Qualifier

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

ND : Indicates the analyte was analyzed for but detected

**Yellow Highlight - Exceeds USCO**

Table 6 - Groundwater Sampling Analytical Results  
Volatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, Westchester County, New York

LOCATION	GW-1	GW-2	GW-3	TW-4					
SAMPLING DATE	10/26/2020	10/26/2020	10/26/2020	11/18/2020					
LAB SAMPLE ID	L2046625-01	L2046625-02	L2046625-03	L2051312-08					
SAMPLE TYPE	WATER		WATER		WATER		WATER		
	NY-AWQS	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q
<b>Volatile Organics by GC/MS - (ug/l)</b>									
Methylene chloride	5	ND		ND		ND		ND	
1,1-Dichloroethane	5	ND		ND		ND		ND	
Chloroform	7	ND		ND		ND		ND	
Carbon tetrachloride	5	ND		ND		ND		ND	
1,2-Dichloropropane	1	ND		ND		ND		ND	
Dibromochloromethane	50	ND		ND		ND		ND	
1,1,2-Trichloroethane	1	ND		ND		ND		ND	
Tetrachloroethene	5	ND		ND		ND		ND	
Chlorobenzene	5	ND		ND		ND		ND	
Trichlorofluoromethane	5	ND		ND		ND		ND	
1,2-Dichloroethane	0.6	ND		ND		ND		ND	
1,1,1-Trichloroethane	5	ND		ND		ND		ND	
Bromodichloromethane	50	ND		ND		ND		ND	
trans-1,3-Dichloropropene	0.4	ND		ND		ND		ND	
cis-1,3-Dichloropropene	0.4	ND		ND		ND		ND	
1,3-Dichloropropene, Total	NC	ND		ND		ND		ND	
1,1-Dichloropropene	5	ND		ND		ND		ND	
Bromoform	50	ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	5	ND		ND		ND		ND	
Benzene	1	ND		ND		ND		ND	
Toluene	5	ND		ND		ND		ND	
Ethylbenzene	5	ND		ND		ND		ND	
Chloromethane	NC	ND		ND		ND		ND	
Bromomethane	5	ND		ND		ND		ND	
Vinyl chloride	2	ND		ND		ND		ND	
Chloroethane	5	ND		ND		ND		ND	
1,1-Dichloroethene	5	ND		ND		ND		ND	
trans-1,2-Dichloroethene	5	ND		ND		ND		ND	
Trichloroethene	5	ND		ND		ND		ND	
1,2-Dichlorobenzene	3	ND		ND		ND		ND	
1,3-Dichlorobenzene	3	ND		ND		ND		ND	
1,4-Dichlorobenzene	3	ND		ND		ND		ND	
Methyl tert butyl ether	10	ND		ND		ND		ND	
p/m-Xylene	5	ND		ND		ND		ND	
o-Xylene	5	ND		ND		ND		ND	
Xylenes, Total	NC	ND		ND		ND		ND	
cis-1,2-Dichloroethene	5	ND		ND		ND		ND	
1,2-Dichloroethene, Total	NC	ND		ND		ND		ND	
Dibromomethane	5	ND		ND		ND		ND	
1,2,3-Trichloropropane	0.04	ND		ND		ND		ND	
Acrylonitrile	5	ND		ND		ND		ND	
Styrene	5	ND		ND		ND		ND	
Dichlorodifluoromethane	5	ND		ND		ND		ND	
Acetone	50	1.6	J	1.9	J	2.4	J	8.1	
Carbon disulfide	60	ND		ND		ND		ND	
2-Butanone	50	ND		ND		ND		ND	
Vinyl acetate	NC	ND		ND		ND		ND	
4-Methyl-2-pentanone	NC	ND		ND		ND		ND	
2-Hexanone	50	ND		ND		ND		ND	
Bromochloromethane	5	ND		ND		ND		ND	
2,2-Dichloropropane	5	ND		ND		ND		ND	
1,2-Dibromoethane	0.0006	ND		ND		ND		ND	
1,3-Dichloropropane	5	ND		ND		ND		ND	
1,1,1,2-Tetrachloroethane	5	ND		ND		ND		ND	
Bromobenzene	5	ND		ND		ND		ND	
n-Butylbenzene	5	ND		ND		ND		ND	
sec-Butylbenzene	5	ND		ND		ND		ND	
tert-Butylbenzene	5	ND		ND		ND		ND	
o-Chlorotoluene	5	ND		ND		ND		ND	
p-Chlorotoluene	5	ND		ND		ND		ND	
1,2-Dibromo-3-chloropropane	0.04	ND		ND		ND		ND	
Hexachlorobutadiene	0.5	ND		ND		ND		ND	
Isopropylbenzene	5	ND		ND		ND		ND	
p-Isopropyltoluene	5	ND		ND		ND		ND	
Naphthalene	10	ND		ND		ND		ND	
n-Propylbenzene	5	ND		ND		ND		ND	
1,2,3-Trichlorobenzene	5	ND		ND		ND		ND	
1,2,4-Trichlorobenzene	5	ND		ND		ND		ND	
1,3,5-Trimethylbenzene	5	ND		ND		ND		ND	
1,2,4-Trimethylbenzene	5	ND		ND		ND		ND	
1,4-Dioxane	NC	ND		ND		ND		ND	
p-Diethylbenzene	NC	ND		ND		ND		ND	

Table 6 - Groundwater Sampling Analytical Results  
 Volatile Organic Compounds  
 327-329 Huguenot Street, New Rochelle, Westchester County, New York

LOCATION	GW-1		GW-2		GW-3		TW-4		
SAMPLING DATE	10/26/2020		10/26/2020		10/26/2020		11/18/2020		
LAB SAMPLE ID	L2046625-01		L2046625-02		L2046625-03		L2051312-08		
SAMPLE TYPE	WATER		WATER		WATER		WATER		
	NY-AWQS	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q
<b>Volatile Organics by GC/MS - (ug/l)</b>									
p-Ethyltoluene	NC	ND		ND		ND		ND	
1,2,4,5-Tetramethylbenzene	5	ND		ND		ND		ND	
Ethyl ether	NC	ND		ND		ND		ND	
trans-1,4-Dichloro-2-butene	5	ND		ND		ND		ND	
Total VOCs	NC	1.6		1.9		2.4		8.1	

Notes:

AWQS - Ambient Water Quality Standards

ug/L - micrograms per liter

Q - Laboratory Qualifier

J - Estimated Concentration

P - The RPD exceeds the method specific criteria

I - Lower value reported due to laboratory interference

**BOLD - Constituent detected above laboratory Minimum Detection Limit**

**Yellow Highlight - Exceeds AWQS**

Table 6 - Groundwater Sampling Analytical Results  
Volatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, Westchester County, New York

LOCATION	TW-5	TW-6			
SAMPLING DATE	11/18/2020	11/19/2020			
LAB SAMPLE ID	L2051312-09	L2051740-04			
SAMPLE TYPE	WATER				
	NY-AWQS	RESULT	Q	RESULT	Q
<b>Volatile Organics by GC/MS - (ug/l)</b>					
Methylene chloride	5	ND		ND	
1,1-Dichloroethane	5	ND		ND	
Chloroform	7	ND		ND	
Carbon tetrachloride	5	ND		ND	
1,2-Dichloropropane	1	ND		ND	
Dibromochloromethane	50	ND		ND	
1,1,2-Trichloroethane	1	ND		ND	
Tetrachloroethene	5	ND		ND	
Chlorobenzene	5	ND		ND	
Trichlorofluoromethane	5	ND		ND	
1,2-Dichloroethane	0.6	ND		ND	
1,1,1-Trichloroethane	5	ND		ND	
Bromodichloromethane	50	ND		ND	
trans-1,3-Dichloropropene	0.4	ND		ND	
cis-1,3-Dichloropropene	0.4	ND		ND	
1,3-Dichloropropene, Total	NC	ND		ND	
1,1-Dichloropropene	5	ND		ND	
Bromoform	50	ND		ND	
1,1,2,2-Tetrachloroethane	5	ND		ND	
Benzene	1	ND		ND	
Toluene	5	ND		ND	
Ethylbenzene	5	ND		ND	
Chloromethane	NC	ND		ND	
Bromomethane	5	ND		ND	
Vinyl chloride	2	ND		ND	
Chloroethane	5	ND		ND	
1,1-Dichloroethene	5	ND		ND	
trans-1,2-Dichloroethene	5	ND		ND	
Trichloroethene	5	ND		ND	
1,2-Dichlorobenzene	3	ND		ND	
1,3-Dichlorobenzene	3	ND		ND	
1,4-Dichlorobenzene	3	ND		ND	
Methyl tert butyl ether	10	ND		ND	
p/m-Xylene	5	ND		ND	
o-Xylene	5	ND		ND	
Xylenes, Total	NC	ND		ND	
cis-1,2-Dichloroethene	5	ND		ND	
1,2-Dichloroethene, Total	NC	ND		ND	
Dibromomethane	5	ND		ND	
1,2,3-Trichloropropane	0.04	ND		ND	
Acrylonitrile	5	ND		ND	
Styrene	5	ND		ND	
Dichlorodifluoromethane	5	ND		ND	
Acetone	50	5		8.3	
Carbon disulfide	60	ND		ND	
2-Butanone	50	ND		ND	
Vinyl acetate	NC	ND		ND	
4-Methyl-2-pentanone	NC	ND		ND	
2-Hexanone	50	ND		ND	
Bromochloromethane	5	ND		ND	
2,2-Dichloropropane	5	ND		ND	
1,2-Dibromoethane	0.0006	ND		ND	
1,3-Dichloropropane	5	ND		ND	
1,1,1,2-Tetrachloroethane	5	ND		ND	
Bromobenzene	5	ND		ND	
n-Butylbenzene	5	ND		ND	
sec-Butylbenzene	5	ND		ND	
tert-Butylbenzene	5	ND		ND	
o-Chlorotoluene	5	ND		ND	
p-Chlorotoluene	5	ND		ND	
1,2-Dibromo-3-chloropropane	0.04	ND		ND	
Hexachlorobutadiene	0.5	ND		ND	
Isopropylbenzene	5	ND		ND	
p-Isopropyltoluene	5	ND		ND	
Naphthalene	10	ND		ND	
n-Propylbenzene	5	ND		ND	
1,2,3-Trichlorobenzene	5	ND		ND	
1,2,4-Trichlorobenzene	5	ND		ND	
1,3,5-Trimethylbenzene	5	ND		ND	
1,2,4-Trimethylbenzene	5	ND		ND	
1,4-Dioxane	NC	ND		ND	
p-Diethylbenzene	NC	ND		ND	



Table 6 - Groundwater Sampling Analytical Results  
 Volatile Organic Compounds  
 327-329 Huguenot Street, New Rochelle, Westchester County, New York

LOCATION	TW-5		TW-6		
SAMPLING DATE	11/18/2020		11/19/2020		
LAB SAMPLE ID	L2051312-09		L2051740-04		
SAMPLE TYPE	WATER		WATER		
	NY-AWQS	RESULT	Q	RESULT	Q
<b>Volatile Organics by GC/MS - (ug/l)</b>					
p-Ethyltoluene	NC	ND		ND	
1,2,4,5-Tetramethylbenzene	5	ND		ND	
Ethyl ether	NC	ND		ND	
trans-1,4-Dichloro-2-butene	5	ND		ND	
Total VOCs	NC	5		8.3	

Notes:

AWQS - Ambient Water Quality Standards

ug/L - micrograms per liter

Q - Laboratory Qualifier

J - Estimated Concentration

P - The RPD exceeds the method specific criteria

I - Lower value reported due to laboratory interference

**BOLD - Constituent detected above laboratory Minimum Detection Limit**

**Yellow Highlight - Exceeds AWQS**

Table 7 - Groundwater Sampling Analytical Results  
Semivolatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, Westchester County, New York

LOCATION	GW-1	GW-2	GW-3	TW-4	TW-5	TW-6						
SAMPLING DATE	10/26/2020	10/26/2020	10/26/2020	11/18/2020	11/18/2020	11/19/2020						
LAB SAMPLE ID	L2046625-01	L2046625-02	L2046625-03	L2051312-08	L2051312-09	L2051740-04						
SAMPLE TYPE	WATER		WATER		WATER							
	NY-AWQS	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	
<b>Semivolatile Organics By GC/MS - (ug/l)</b>												
1,2,4-Trichlorobenzene	5	ND		ND		ND		ND		ND		ND
Bis(2-chloroethyl)ether	1	ND		ND		ND		ND		ND		ND
1,2-Dichlorobenzene	3	ND		ND		ND		ND		ND		ND
1,3-Dichlorobenzene	3	ND		ND		ND		ND		ND		ND
1,4-Dichlorobenzene	3	ND		ND		ND		ND		ND		ND
3,3'-Dichlorobenzidine	5	ND		ND		ND		ND		ND		ND
2,4-Dinitrotoluene	5	ND		ND		ND		ND		ND		ND
2,6-Dinitrotoluene	5	ND		ND		ND		ND		ND		ND
4-Chlorophenyl phenyl ether	NC	ND		ND		ND		ND		ND		ND
4-Bromophenyl phenyl ether	NC	ND		ND		ND		ND		ND		ND
Bis(2-chloroisopropyl)ether	5	ND		ND		ND		ND		ND		ND
Bis(2-chloroethoxy)methane	5	ND		ND		ND		ND		ND		ND
Hexachlorocyclopentadiene	5	ND		ND		ND		ND		ND		ND
Isophorone	50	ND		ND		ND		ND		ND		ND
Nitrobenzene	0.4	ND		ND		ND		ND		ND		ND
NDPA/DPA	50	ND		ND		ND		0.62	J	ND		ND
n-Nitrosodi-n-propylamine	NC	ND		ND		ND		ND		ND		ND
Bis(2-ethylhexyl)phthalate	5	1.6	J	1.8	J	1.7	J	ND		2.3	J	ND
Butyl benzyl phthalate	50	ND		ND		ND		ND		ND		ND
Di-n-butylphthalate	50	0.85	J	0.72	J	0.57	J	ND		ND		ND
Di-n-octylphthalate	50	ND		ND		ND		ND		ND		ND
Diethyl phthalate	50	ND		ND		ND		ND		ND		ND
Dimethyl phthalate	50	ND		ND		ND		ND		ND		ND
Biphenyl	NC	ND		ND		ND		ND		ND		ND
4-Chloroaniline	5	ND		ND		ND		ND		ND		ND
2-Nitroaniline	5	ND		ND		ND		ND		ND		ND
3-Nitroaniline	5	ND		ND		ND		ND		ND		ND
4-Nitroaniline	5	ND		ND		ND		ND		ND		ND
Dibenzofuran	NC	ND		ND		ND		ND		ND		ND
1,2,4,5-Tetrachlorobenzene	5	ND		ND		ND		ND		ND		ND
Acetophenone	NC	ND		ND		ND		ND		ND		ND
2,4,6-Trichlorophenol	NC	ND		ND		ND		ND		ND		ND
p-Chloro-m-cresol	NC	ND		ND		ND		ND		ND		ND
2-Chlorophenol	NC	ND		ND		ND		ND		ND		ND
2,4-Dichlorophenol	1	ND		ND		ND		ND		ND		ND
2,4-Dimethylphenol	50	ND		ND		ND		ND		ND		ND
2-Nitrophenol	NC	ND		ND		ND		ND		ND		ND
4-Nitrophenol	NC	ND		ND		ND		ND		ND		ND
2,4-Dinitrophenol	10	ND		ND		ND		ND		ND		ND

Table 7 - Groundwater Sampling Analytical Results  
Semivolatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, Westchester County, New York

LOCATION	GW-1	GW-2	GW-3	TW-4	TW-5	TW-6							
SAMPLING DATE	10/26/2020	10/26/2020	10/26/2020	11/18/2020	11/18/2020	11/19/2020							
LAB SAMPLE ID	L2046625-01	L2046625-02	L2046625-03	L2051312-08	L2051312-09	L2051740-04							
SAMPLE TYPE	WATER		WATER		WATER								
	NY-AWQS	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q
<b>Semivolatile Organics By GC/MS - (ug/l)</b>													
4,6-Dinitro-o-cresol	NC	ND		ND		ND		ND		ND		ND	
Phenol	1	ND		ND		ND		6.2		0.72	J	1.9	J
2-Methylphenol	NC	ND		ND		ND		ND		ND		ND	
3-Methylphenol/4-Methylphenol	NC	ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	NC	ND		ND		ND		ND		ND		ND	
Benzoic Acid	NC	ND		ND		ND		ND		ND		ND	
Benzyl Alcohol	NC	ND		ND		ND		ND		ND		ND	
Carbazole	NC	ND		ND		ND		ND		ND		ND	
Total SVOCs	NC	2.45	-	2.52	-	2.27	-	6.82	-	3.02	-	1.9	-
Acenaphthene	20	0.04	J	0.1	J	ND		0.04	J	0.23		ND	
2-Chloronaphthalene	10	ND		ND		ND		ND		ND		ND	
Fluoranthene	50	1.6		5.4		0.74		0.06	J	0.04	J	0.08	J
Hexachlorobutadiene	0.5	ND		ND		ND		ND		ND		ND	
Naphthalene	10	0.06	J	0.19		ND		0.2		0.08	J	0.09	J
Benzo(a)anthracene	0.002	0.8		4.9		0.54		0.04	J	ND		0.06	J
Benzo(a)pyrene	0	0.86		5		0.54		0.03	J	ND		0.06	J
Benzo(b)fluoranthene	0.002	1.1		5.7		0.58		0.04	J	ND		0.07	J
Benzo(k)fluoranthene	0.002	0.3		1.7		0.19		0.02	J	ND		0.02	J
Chrysene	0.002	0.9		5.9		0.63		0.02	J	ND		0.05	J
Acenaphthylene	NC	0.06	J	0.37		0.03	J	ND		0.12		ND	
Anthracene	50	0.1		0.43		0.07	J	0.02	J	0.15		0.04	J
Benzo(ghi)perylene	NC	0.66		4.2		0.4		0.06	J	0.05	J	0.05	J
Fluorene	50	0.05	J	0.15		0.02	J	0.04	J	0.53		0.02	J
Phenanthrene	50	0.75		3.8		0.41		0.07	J	0.21		0.09	J
Dibenzo(a,h)anthracene	NC	0.13		0.98		0.1	J	ND		ND		ND	
Indeno(1,2,3-cd)pyrene	0.002	0.63		3.6		0.38		0.03	J	ND		0.05	J
Pyrene	50	2		8.1		1		0.09	J	0.14		0.1	
2-Methylnaphthalene	NC	0.07	J	0.12		ND		0.7		0.21		0.24	
Pentachlorophenol	1	ND		ND		ND		ND		ND		ND	
Hexachlorobenzene	0.04	ND		ND		ND		ND		ND		ND	
Hexachloroethane	5	ND		ND		ND		ND		ND		ND	
Total SVOCs	NC	10.11	-	50.64	-	5.63	-	1.46	-	1.76	-	1.02	-

Notes:

AWQS - Ambient Water Quality Standards

ug/L - micrograms per liter

Q - Laboratory Qualifier

J - Estimated Concentration

P - The RPD exceeds the method specific criteria

I - Lower value reported due to laboratory interference

Table 7 - Groundwater Sampling Analytical Results  
 Semivolatile Organic Compounds  
 327-329 Huguenot Street, New Rochelle, Westchester County, New York

LOCATION	GW-1		GW-2		GW-3		TW-4		TW-5		TW-6		
SAMPLING DATE	10/26/2020		10/26/2020		10/26/2020		11/18/2020		11/18/2020		11/19/2020		
LAB SAMPLE ID	L2046625-01		L2046625-02		L2046625-03		L2051312-08		L2051312-09		L2051740-04		
SAMPLE TYPE	WATER		WATER		WATER		WATER		WATER		WATER		
	NY-AWQS	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q
<b>Semivolatile Organics By GC/MS - (ug/l)</b>													

**BOLD** - Constituent detected above laboratory Minimum Detection Limit

Yellow Highlight - Exceeds AWQS

Table 8 - Groundwater Sampling Analytical Results  
 Total and Dissolved Metals  
 327-329 Huguenot Street, New Rochelle, Westchester County, New York

LOCATION	GW-1		GW-2		GW-3		TW-4		TW-5		TW-6		
SAMPLING DATE	10/26/2020		10/26/2020		10/26/2020		11/18/2020		11/18/2020		11/19/2020		
LAB SAMPLE ID	L2046625-01		L2046625-02		L2046625-03		L2051312-08		L2051312-09		L2051740-04		
SAMPLE TYPE	WATER		WATER		WATER		WATER		WATER		WATER		
	NY-AWQS	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q
<b>Dissolved Metals - (ug/l)</b>													
Aluminum, Dissolved	NC	5.62	J	11.8		34.2		6.52	J	16.5	J	31.7	
Antimony, Dissolved	3	ND		4.15		1.38	J	0.68	J	ND		2.64	J
Arsenic, Dissolved	25	0.2	J	0.31	J	0.51		0.24	J	ND		1.38	
Barium, Dissolved	1000	84.88		99.32		129.9		167.1		120.8		115.6	
Beryllium, Dissolved	3	ND		ND		ND		ND		ND		ND	
Cadmium, Dissolved	5	ND		ND		ND		ND		ND		ND	
Calcium, Dissolved	NC	313000		62600		90200		131000		134000		102000	
Chromium, Dissolved	50	0.64	J	0.94	J	2.43		ND		ND		3.22	
Cobalt, Dissolved	NC	3.02		4.53		2.64		9.11		1.91	J	1.71	
Copper, Dissolved	200	ND		1.32		1.91		ND		ND		5.91	
Iron, Dissolved	300	76400		ND		65.6		22.7	J	ND		46.7	J
Lead, Dissolved	25	ND		1.54		4.72		ND		ND		8.16	
Magnesium, Dissolved	35000	118000		44500		228000		53200		158000		117000	
Manganese, Dissolved	300	6889		706.1		199.2		2281		878.9		171.1	
Mercury, Dissolved	0.7	ND		ND		ND		ND		ND		ND	
Nickel, Dissolved	100	7.82		5.19		6.48		34.49		6.41	J	20.53	
Potassium, Dissolved	NC	15400		9440		12700		23600		11400		21600	
Selenium, Dissolved	10	ND		3.49	J	6.42		ND		ND		5.67	
Silver, Dissolved	50	ND		ND		ND		ND		ND		ND	
Sodium, Dissolved	20000	147000		518000		1010000		615000		880000		946000	
Thallium, Dissolved	0.5	0.2	J	0.29	J	ND		ND		ND		ND	
Vanadium, Dissolved	NC	ND		ND		ND		ND		ND		3.63	J
Zinc, Dissolved	2000	11.54		4.58	J	ND		ND		ND		6.74	J

Table 8 - Groundwater Sampling Analytical Results  
 Total and Dissolved Metals  
 327-329 Huguenot Street, New Rochelle, Westchester County, New York

LOCATION	GW-1		GW-2		GW-3		TW-4		TW-5		TW-6		
SAMPLING DATE	10/26/2020		10/26/2020		10/26/2020		11/18/2020		11/18/2020		11/19/2020		
LAB SAMPLE ID	L2046625-01		L2046625-02		L2046625-03		L2051312-08		L2051312-09		L2051740-04		
SAMPLE TYPE	WATER		WATER		WATER		WATER		WATER		WATER		
	NY-AWQS	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q
<b>Total Metals - (ug/l)</b>													
Aluminum, Total	NC	3260		27700		15300		236000		13900		40800	
Antimony, Total	3	ND		0.73	J	ND		ND		ND		5.54	J
Arsenic, Total	25	2.11		9.37		6.41		30.43		1.58	J	25.66	
Barium, Total	1000	241.2		5348		367.3		4612		288.7		3515	
Beryllium, Total	3	0.69		1.76		1.17	J	21.89		0.96	J	2.79	
Cadmium, Total	5	0.09	J	2.31		0.34	J	1.17	J	ND		4.81	
Calcium, Total	NC	320000		301000		171000		323000		143000		583000	
Chromium, Total	50	8.56		47.66		34.74		747.9		35.03		181.8	
Cobalt, Total	NC	5.33		71.79		31.1		301.3		12.62		47.33	
Copper, Total	200	16.95		126.2		40.56		1617		38.61		187.3	
Iron, Total	300	134000		36500		31400		542000		33700		63700	
Lead, Total	25	76.5		3501		1474		351.6		10.06		10660	
Magnesium, Total	35000	125000		114000		237000		170000		146000		162000	
Manganese, Total	300	7096		3188		2516		12050		1452		2821	
Mercury, Total	0.7	ND		ND		ND		ND		ND		0.9	
Nickel, Total	100	15.7		65.97		48.98		1036		46.79		142.6	
Potassium, Total	NC	16900		18000		20000		184000		16000		30100	
Selenium, Total	10	ND		6.44		12.1	J	18.5	J	ND		ND	
Silver, Total	50	ND		0.17	J	ND		ND		ND		ND	
Sodium, Total	20000	153000		547000		1120000		636000		749000		728000	
Thallium, Total	0.5	0.16	J	0.54		ND		6.89	J	ND		1.79	J
Vanadium, Total	NC	13.04		190.8		79.65		585		26.19		272.8	
Zinc, Total	2000	55.39		2228		197.9		1016		65.52		2693	
<b>General Chemistry - (ug/l)</b>													
Cyanide, Total	200	ND		5		3	J	2	J	4	J	5	

Notes:

AWQS - Ambient Water Quality Standards

ug/L - micrograms per liter

Q - Laboratory Qualifier

J - Estimated Concentration

P - The RPD exceeds the method specific criteria

I - Lower value reported due to laboratory interference

**BOLD - Constituent detected above laboratory Minimum Detection Limit**

**Yellow Highlight - Exceeds AWQS**

Table 9 - Groundwater Sampling Analytical Results  
Pesticides and PCBs  
327-329 Huguenot Street, New Rochelle, Westchester County, New York

LOCATION	GW-1	GW-2	GW-3	TW-4	TW-5	TW-6							
SAMPLING DATE	10/26/2020	10/26/2020	10/26/2020	11/18/2020	11/18/2020	11/19/2020							
LAB SAMPLE ID	L2046625-01	L2046625-02	L2046625-03	L2051312-08	L2051312-09	L2051740-04							
SAMPLE TYPE	WATER		WATER		WATER								
	NY-AWQS	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q
<b>Organochlorine Pesticides By GC - (ug/l)</b>													
Delta-BHC	0.04	ND		ND		ND		ND		ND		ND	
Lindane	0.05	ND		ND		ND		ND		ND		ND	
Alpha-BHC	0.01	ND		ND		ND		ND		ND		ND	
Beta-BHC	0.04	ND		ND		ND		ND		ND		ND	
Heptachlor	0.04	ND		ND		ND		ND		ND		ND	
Aldrin	0	ND		ND		ND		ND		ND		ND	
Heptachlor epoxide	0.03	ND		0.021		ND		ND		ND		0.009	JIP
Endrin	0	ND		ND		ND		ND		ND		ND	
Endrin aldehyde	5	ND		ND		ND		ND		ND		ND	
Endrin ketone	5	ND		ND		ND		ND		ND		ND	
Dieldrin	0.004	ND		0.047		0.016	J	ND		ND		0.136	
4,4'-DDE	0.2	ND		0.231		0.113		0.01	J	ND		0.556	
4,4'-DDD	0.3	ND		0.085		0.018	J	ND		ND		0.059	
4,4'-DDT	0.2	ND		1.08		0.41		ND		ND		1.04	
Endosulfan I	NC	ND		ND		ND		ND		ND		ND	
Endosulfan II	NC	ND		ND		ND		ND		ND		ND	
Endosulfan sulfate	NC	ND		ND		ND		ND		ND		ND	
Methoxychlor	35	ND		0.177		ND		ND		ND		0.309	
Toxaphene	0.06	ND		ND		ND		ND		ND		ND	
cis-Chlordane	NC	ND		0.061	IP	0.032	IP	ND		ND		0.098	
trans-Chlordane	NC	ND		0.095	IP	0.05		ND		ND		0.092	
Chlordane	0.05	ND		0.766		0.387		ND		ND		1.2	P



Table 9 - Groundwater Sampling Analytical Results  
Pesticides and PCBs  
327-329 Huguenot Street, New Rochelle, Westchester County, New York

LOCATION	GW-1		GW-2		GW-3		TW-4		TW-5		TW-6	
SAMPLING DATE	10/26/2020		10/26/2020		10/26/2020		11/18/2020		11/18/2020		11/19/2020	
LAB SAMPLE ID	L2046625-01		L2046625-02		L2046625-03		L2051312-08		L2051312-09		L2051740-04	
SAMPLE TYPE	WATER		WATER		WATER		WATER		WATER		WATER	
<b>PCBs By GC - (ug/l)</b>												
Aroclor 1016	0.09	ND		ND		ND		ND		ND		ND
Aroclor 1221	0.09	ND		ND		ND		ND		ND		ND
Aroclor 1232	0.09	ND		ND		ND		ND		ND		ND
Aroclor 1242	0.09	ND		ND		ND		ND		ND		ND
Aroclor 1248	0.09	ND		<b>0.723</b>		ND		ND		ND		ND
Aroclor 1254	0.09	0.048	J	<b>0.214</b>		0.062	J	ND		ND		ND
Aroclor 1260	0.09	ND		0.049	J	ND		ND		ND		ND
Aroclor 1262	0.09	ND		ND		ND		ND		ND		ND
Aroclor 1268	0.09	ND		ND		ND		ND		ND		ND
PCBs, Total	0.09	0.048	J	<b>0.986</b>	J	0.062	J	ND		ND		ND

Notes:

AWQS - Ambient Water Quality Standards

ug/L - micrograms per liter

Q - Laboratory Qualifier

J - Estimated Concentration

P - The RPD exceeds the method specific criteria

I - Lower value reported due to laboratory interference

**BOLD - Constituent detected above laboratory Minimum Detection Limit**

**Yellow Highlight - Exceeds AWQS**

Table 10 - Groundwater Sampling Analytical Results  
PFAS  
327-329 Huguenot Street, New Rochelle, Westchester County, New York

LOCATION	GW-1		GW-2		GW-3		TW-4		TW-5		TW-6		
SAMPLING DATE	10/26/2020		10/26/2020		10/26/2020		11/18/2020		11/18/2020		11/19/2020		
LAB SAMPLE ID	L2046625-01		L2046625-02		L2046625-03		L2051312-08		L2051312-09		L2051740-04		
SAMPLE TYPE	WATER		WATER		WATER		WATER		WATER		WATER		
	GWGV	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q
<b>Perfluorinated Alkyl Acids By Isotope Dilution - (ug/l)</b>													
Perfluorobutanoic Acid (PFBA)	0.1	0.0156		0.00862		0.0114		0.0106		0.0085		0.0241	
Perfluoropentanoic Acid (PFPeA)	0.1	0.036		0.0107		0.015		0.0137		0.0156		0.0557	
Perfluorobutanesulfonic Acid (PFBS)	0.1	0.00878		0.00872		0.0101		0.00788		0.0091		0.0114	
Perfluorohexanoic Acid (PFHxA)	0.1	0.0304		0.00817		0.0102		0.00955		0.0105		0.0506	
Perfluoroheptanoic Acid (PFHpA)	0.1	0.0154		0.0051		0.011		0.00614		0.00936		0.051	
Perfluorohexanesulfonic Acid (PFHxS)	0.1	0.00566		0.00195	J	0.00472		0.00277		0.0057	F	0.0116	
Perfluorooctanoic Acid (PFOA)	0.01	<b>0.037</b>		<b>0.0121</b>		<b>0.0216</b>		<b>0.0146</b>	F	<b>0.0226</b>	F	<b>0.0926</b>	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.1	ND		ND		ND		ND		ND		ND	
Perfluoroheptanesulfonic Acid (PFHpS)	0.1	ND		ND		ND		ND		0.00166	J	0.0022	
Perfluorononanoic Acid (PFNA)	0.1	0.01		0.00251		0.00217		0.00252		0.00286		0.0282	
Perfluorooctanesulfonic Acid (PFOS)	0.01	<b>0.0207</b>		<b>0.0352</b>		<b>0.0464</b>		<b>0.0243</b>	F	<b>0.0491</b>	F	<b>0.522</b>	
Perfluorodecanoic Acid (PFDA)	0.1	0.000548	J	0.00302		0.000706	J	0.000948	J	0.000777	J	0.0234	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.1	ND		ND		ND		ND		ND		ND	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.1	ND		ND		ND		ND		ND		ND	
Perfluoroundecanoic Acid (PFUnA)	0.1	ND		ND		ND		ND		ND		0.00572	
Perfluorodecanesulfonic Acid (PFDS)	0.1	ND		ND		ND		ND		ND		0.00646	
Perfluorooctanesulfonamide (FOSA)	0.1	ND		ND		0.000981	JF	ND		ND		0.00779	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.1	ND		ND		0.00593		ND		ND		0.0468	
Perfluorododecanoic Acid (PFDoA)	0.1	ND		ND		ND		ND		ND		0.00491	
Perfluorotridecanoic Acid (PFTrDA)	0.1	ND		ND		ND		ND		ND		0.00264	F
Perfluorotetradecanoic Acid (PFTA)	0.1	ND		ND		ND		ND		ND		0.00199	J
PFOA/PFOS, Total	0.5	0.0577		0.0473		0.068		0.0389		0.0717		0.615	

Notes:

GWGV - Groundwater Guidance Values

ug/L - micrograms per liter

Q - Laboratory Qualifier

**BOLD - Constituent detected above laboratory Minimum Detection Limit**

F-The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

**Exceeds Criteria**

Table 11 - Soil Vapor Sampling Analytical Results  
Volatile Organic Compounds  
327-329 Huguenot Street, New Rochelle, New York

LOCATION				V-1		V-2		V-3		V-4		AA-1	
SAMPLING DATE				10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
LAB SAMPLE ID				L2046072-01		L2046072-03		L2046072-04		L2046072-05		L2046072-02	
SAMPLE TYPE				SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		AIR	
	NY-SSC-A	NY-SSC-B	NY-SSC-C	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q
<b>Volatile Organics In Air - (ug/m3)</b>													
Dichlorodifluoromethane	NC	NC	NC	2.68		3.26		2.34		2.7		2.16	
Chloromethane	NC	NC	NC	0.456		0.413	U	0.677		0.622		0.964	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	NC	NC	NC	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Vinyl chloride	NC	NC	6	0.511	U	0.511	U	0.511	U	0.511	U	0.511	U
1,3-Butadiene	NC	NC	NC	0.56		0.442	U	0.442	U	0.442	U	0.442	U
Bromomethane	NC	NC	NC	0.777	U	0.777	U	0.777	U	0.777	U	0.777	U
Chloroethane	NC	NC	NC	0.528	U	0.528	U	0.528	U	0.528	U	0.528	U
Ethyl Alcohol	NC	NC	NC	188		202		98		23.9		21.5	
Vinyl bromide	NC	NC	NC	0.874	U	0.874	U	0.874	U	0.874	U	0.874	U
Acetone	NC	NC	NC	13.8		39.2		46.6		37.5		8.77	
Trichlorofluoromethane	NC	NC	NC	9.33		29.7		7.08		15.7		1.12	U
iso-Propyl Alcohol	NC	NC	NC	2.08		2.51		32.9		2.95		3.44	
1,1-Dichloroethene	6	NC	NC	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
tert-Butyl Alcohol	NC	NC	NC	3.02		11.4		7.4		12.5		1.52	U
Methylene chloride	NC	100	NC	1.74	U	1.74	U	1.74	U	1.85		1.74	U
3-Chloropropene	NC	NC	NC	0.626	U	0.626	U	0.626	U	0.626	U	0.626	U
Carbon disulfide	NC	NC	NC	9.09		1.04		2.33		0.906		0.623	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NC	NC	NC	1.53	U	1.53	U	1.53	U	1.53	U	1.53	U
trans-1,2-Dichloroethene	NC	NC	NC	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
1,1-Dichloroethane	NC	NC	NC	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U
Methyl tert butyl ether	NC	NC	NC	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
2-Butanone	NC	NC	NC	8.23		34.8		110		65.8		1.47	U
cis-1,2-Dichloroethene	6	NC	NC	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
Ethyl Acetate	NC	NC	NC	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
Chloroform	NC	NC	NC	1.43		2.09		0.977	U	2.02		0.977	U
Tetrahydrofuran	NC	NC	NC	4.9		9.08		8.55		3.42		1.47	U
1,2-Dichloroethane	NC	NC	NC	0.809	U	0.809	U	0.809	U	0.809	U	0.809	U
n-Hexane	NC	NC	NC	9.97		6.24		7.89		3.81		0.99	
1,1,1-Trichloroethane	NC	100	NC	1.09	U	1.44		1.09	U	1.09	U	1.09	U
Benzene	NC	NC	NC	1.41		1.69		1.99		1.32		0.764	
Carbon tetrachloride	6	NC	NC	1.26	U	1.26	U	1.26	U	1.26	U	1.26	U
Cyclohexane	NC	NC	NC	0.688	U	0.702		0.688	U	0.688	U	0.688	U
1,2-Dichloropropane	NC	NC	NC	0.924	U	0.924	U	0.924	U	0.924	U	0.924	U
Bromodichloromethane	NC	NC	NC	1.34	U	1.34	U	1.34	U	1.34	U	1.34	U
Xylene (Total)	NC	NC	NC	19.7		22.3		9.9		7.6		0.869	U
1,4-Dioxane	NC	NC	NC	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U
Trichloroethene	6	NC	NC	1.07	U	1.07	U	1.07	U	1.07	U	1.07	U
2,2,4-Trimethylpentane	NC	NC	NC	1.01		1.33		3.24		1.71		0.934	U
Heptane	NC	NC	NC	1.98		1.99		3.57		1.21		0.82	U

Table 11 - Soil Vapor Sampling Analytical Results  
 Volatile Organic Compounds  
 327-329 Huguenot Street, New Rochelle, New York

LOCATION				V-1		V-2		V-3		V-4		AA-1	
SAMPLING DATE				10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
LAB SAMPLE ID				L2046072-01		L2046072-03		L2046072-04		L2046072-05		L2046072-02	
SAMPLE TYPE				SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		SOIL VAPOR		AIR	
	NY-SSC-A	NY-SSC-B	NY-SSC-C	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q	RESULT	Q
<b>Volatile Organics In Air - (ug/m3)</b>													
cis-1,3-Dichloropropene	NC	NC	NC	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
4-Methyl-2-pentanone	NC	NC	NC	2.05	U	2.62		2.05	U	2.05	U	2.05	U
trans-1,3-Dichloropropene	NC	NC	NC	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
1,1,2-Trichloroethane	NC	NC	NC	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U
Toluene	NC	NC	NC	6.56		9.01		6.82		4.03		1.42	
1,2-Dichloroethene (total)	NC	NC	NC	0.793	U	0.793	U	0.793	U	0.793	U	0.793	U
2-Hexanone	NC	NC	NC	0.82	U	0.82	U	3.42		3.55		0.82	U
1,3-Dichloropropene, Total	NC	NC	NC	0.908	U	0.908	U	0.908	U	0.908	U	0.908	U
Dibromochloromethane	NC	NC	NC	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
1,2-Dibromoethane	NC	NC	NC	1.54	U	1.54	U	1.54	U	1.54	U	1.54	U
Tetrachloroethene	NC	100	NC	2.43		3.74		1.91		3.2		1.36	U
Chlorobenzene	NC	NC	NC	0.921	U	0.921	U	0.921	U	0.921	U	0.921	U
Ethylbenzene	NC	NC	NC	2.95		3.27		1.64		1.23		0.869	U
p/m-Xylene	NC	NC	NC	14.9		16.8		7.17		5.47		1.74	U
Bromoform	NC	NC	NC	2.07	U	2.07	U	2.07	U	2.07	U	2.07	U
Styrene	NC	NC	NC	0.971		0.988		0.852	U	0.852	U	0.852	U
1,1,2,2-Tetrachloroethane	NC	NC	NC	1.37	U	1.37	U	1.37	U	1.37	U	1.37	U
o-Xylene	NC	NC	NC	4.82		5.52		2.74		2.11		0.869	U
4-Ethyltoluene	NC	NC	NC	0.983	U	0.983	U	0.983	U	0.983	U	0.983	U
1,3,5-Trimethylbenzene	NC	NC	NC	0.983	U	0.983	U	0.983	U	0.983	U	0.983	U
1,2,4-Trimethylbenzene	NC	NC	NC	1.81		1.4		1.25		0.993		0.983	U
Benzyl chloride	NC	NC	NC	1.04	U	1.04	U	1.04	U	1.04	U	1.04	U
1,3-Dichlorobenzene	NC	NC	NC	1.2	U	1.2	U	1.34		1.2	U	1.2	U
1,4-Dichlorobenzene	NC	NC	NC	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2-Dichlorobenzene	NC	NC	NC	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2,4-Trichlorobenzene	NC	NC	NC	1.48	U	1.48	U	1.48	U	1.48	U	1.48	U
Hexachlorobutadiene	NC	NC	NC	2.13	U	2.13	U	2.13	U	2.13	U	2.13	U

Notes:

NY-SSC-A: New York DOH Matrix A Sub-slab Vapor Concentrations Criteria

NY-SSC-B: New York DOH Matrix B Sub-slab Vapor Concentrations Criteria

NY-SSC-C: New York DOH Matrix C Sub-slab Vapor Concentrations Criteria

Q - Laboratory Qualifier

U - Analyte Not Detected

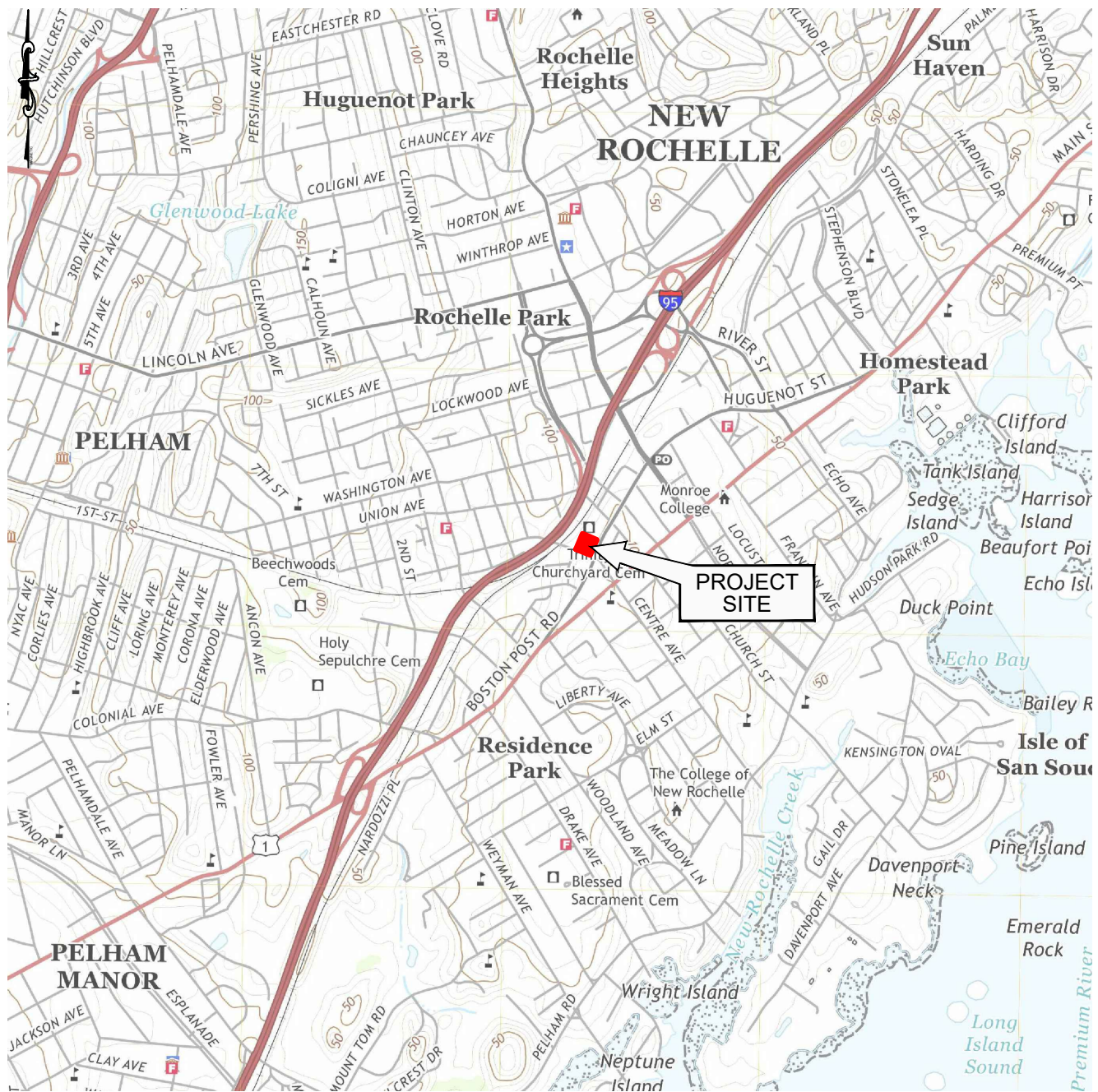
NC - No Criteria

ug/m3 - micrograms per cubic meter

## FIGURES



N:\ACAD\11571\CAD\PHASE II\11571 - FIG-1 - SITE LOCATION MAP.DWG 01/07/21 12:01:40PM, aas, LAYOUT:FIG-1



REFERENCE:  
 HISTORICAL TOPOGRAPHICAL MAP OBTAINED FROM USGS DATABASE, DATED 2019.

Scale 1"=2000'



1	2	3
4	5	
6	7	8

ADJOINING QUADRANGLES

- 1 Nyack
- 2 White Plains
- 3 Glenville
- 4 Tonawanda
- 5 Mamaroneck
- 6 Central Park
- 7 Flushing
- 8 Sea Cliff

329 HUGUENOT STREET  
 NEW ROCHELLE, NEW YORK

SITE LOCATION MAP

**SESI**  
 CONSULTING  
 ENGINEERS D.P.C.

SOILS / FOUNDATIONS  
 SITE DESIGN  
 ENVIRONMENTAL

12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

FIG-1

DRAWN BY: aas

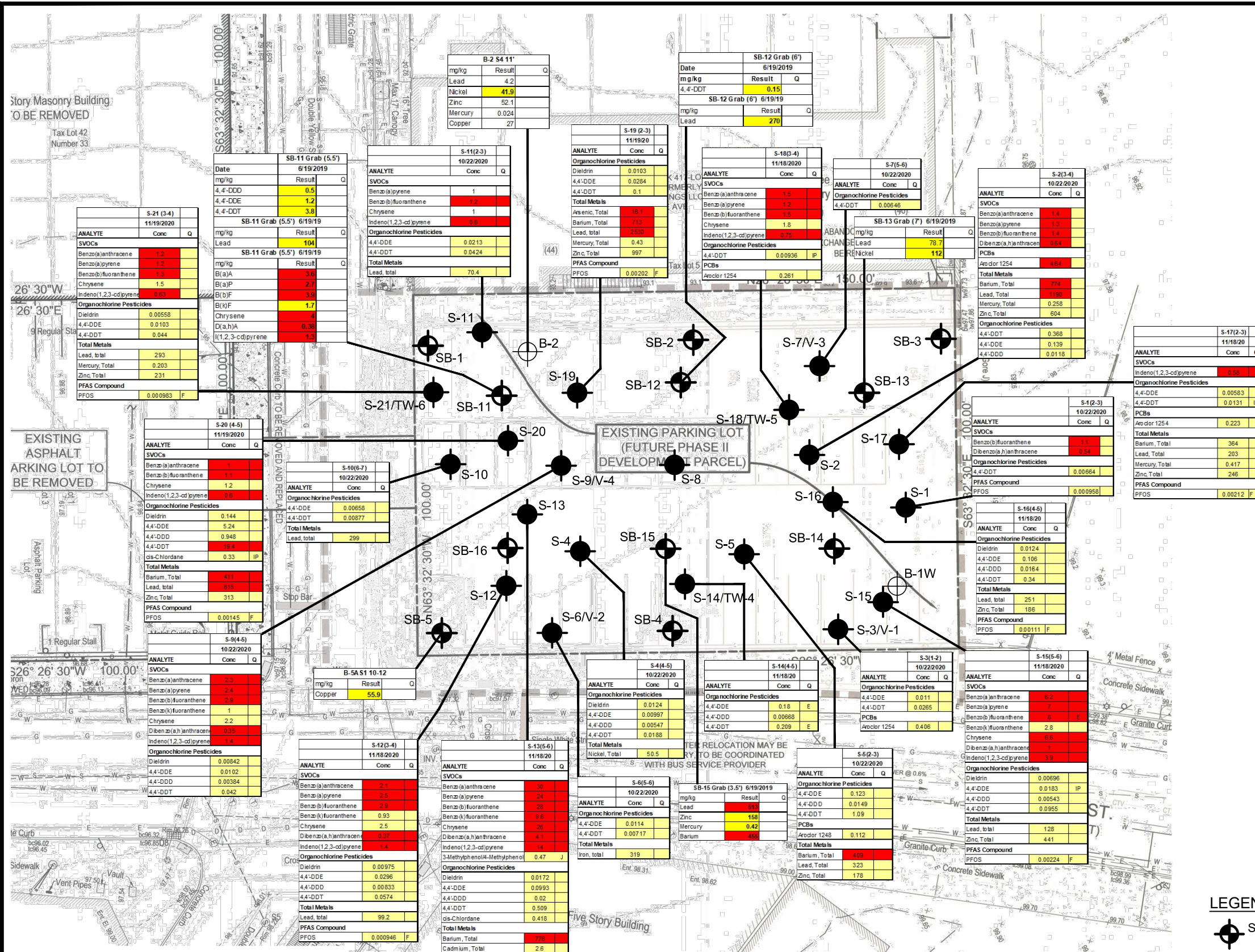
CHECKED BY: JAM

SCALE: AS NOTED

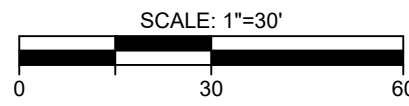
DATE: 01/07/2021

JOB NO.: 11571





ANALYTE	NY-RESR (mg/kg)		
	NY-RESR	NY-RESR	NY-UNRES
<b>SVOCs</b>			
Benzo(a)anthracene	1	1	1
Benzo(a)pyrene	1	1	1
Benzo(b)fluoranthene	1	1	1
Benzo(k)fluoranthene	1	3.9	0.8
Chrysene	1	3.9	1
Dibenz(a,h)anthracene	0.33	0.33	0.33
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5
3-Methylphenol/4-Methylphenol	34	100	0.33
<b>Total Metals</b>			
Arsenic	16	16	13
Barium	350	400	350
Cadmium	2.5	4.3	2.5
Lead	400	400	63
Mercury	0.81	0.81	0.18
Zinc	2200	10000	109
<b>Organochlorine Pesticides</b>			
Dieldrin	0.039	0.2	0.005
4,4'-DDE	1.8	8.9	0.0033
4,4'-DDD	2.6	13	0.0033
4,4'-DDT	1.7	7.9	0.0033
o,s-Chlordane	0.91	4.2	0.094
<b>PCBs</b>			
Aroclor 1254	1	1	0.1



- LEGEND:**
- SB-1 - SOIL BORING NUMBER & APPROX. LOCATION BY SESI (2019)
  - B-1 - SOIL BORING NUMBER & APPROX. LOCATION BY OTHERS
  - S-4 - SOIL BORING NUMBER & APPROX. LOCATION BY SESI (2020)

**NOTE:**  
THIS PLAN IS FOR LOCATING BORINGS ONLY. OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.

**REFERENCE**  
SITE INFORMATION TAKEN FROM "EXISTING CONDITIONS & DEMOLITION PLAN" PREPARED BY NELSON & POPE ENGINEERS & SURVEYORS. DATED 5-02-19.

**NYS Education Law**  
Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS D.P.C. 2021  
This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS D.P.C. and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS D.P.C.

dwg by: aas  
chk by: JAM  
scale: 1" = 40'  
date: 01/13/2021

**SESI**  
SOILS / FOUNDATIONS  
SITE DESIGN  
CONSULTING ENGINEERS D.P.C.  
ENVIRONMENTAL  
12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

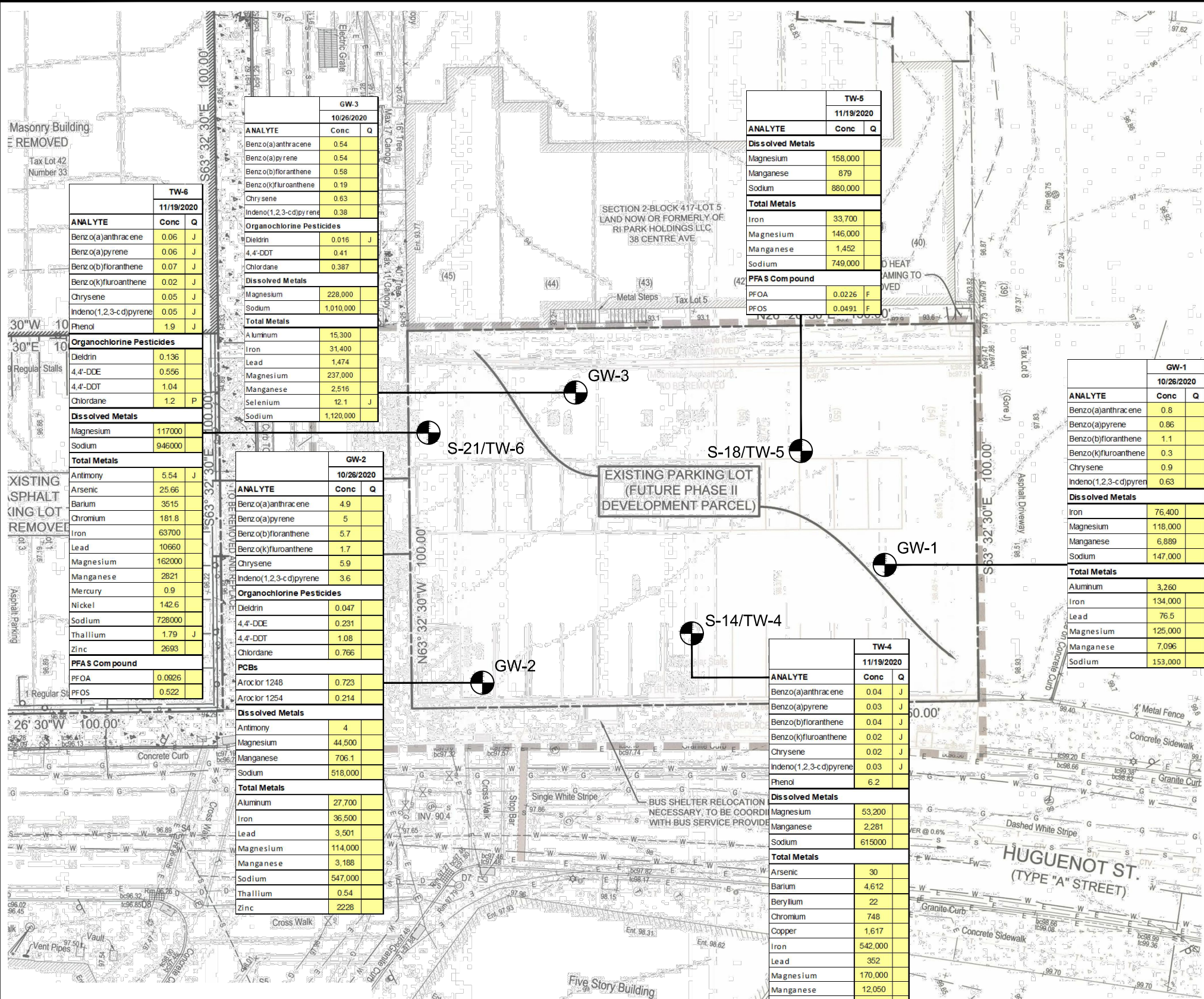
329 HUGUENOT STREET  
NEW ROCHELLE, NEW YORK  
**SOIL SAMPLE RESULTS PLAN**

job no: 11571  
drawing no:

**FIG-2**



N:\ACAD\11571\CAD\PHASE II\11571 - FIG-3 - GROUNDWATER SAMPLING RESULTS PLAN.DWG 01/13/21 01:22:52PM. acs. LAYOUT:FIG-3



TW-6		
11/19/2020		
ANALYTE	Conc	Q
Benzo(a)anthracene	0.06	J
Benzo(a)pyrene	0.06	J
Benzo(b)fluoranthene	0.07	J
Benzo(k)fluoranthene	0.02	J
Chrysene	0.05	J
Indeno(1,2,3-c-d)pyrene	0.05	J
Phenol	1.9	J

GW-3		
10/26/2020		
ANALYTE	Conc	Q
Benzo(a)anthracene	0.54	
Benzo(a)pyrene	0.54	
Benzo(b)fluoranthene	0.58	
Benzo(k)fluoranthene	0.19	
Chrysene	0.63	
Indeno(1,2,3-c-d)pyrene	0.38	

TW-5		
11/19/2020		
ANALYTE	Conc	Q
<b>Dissolved Metals</b>		
Magnesium	158,000	
Manganese	879	
Sodium	880,000	
<b>Total Metals</b>		
Iron	33,700	
Magnesium	146,000	
Manganese	1,452	
Sodium	749,000	
<b>PFA's Compound</b>		
PFOA	0.0226	F
PFOS	0.0491	F

Organochlorine Pesticides		
Dieldrin	0.016	J
4,4'-DDE	0.41	
Chlordane	0.387	

Organochlorine Pesticides		
Dieldrin	0.016	J
4,4'-DDE	0.41	
Chlordane	0.387	

Total Metals		
Iron	33,700	
Magnesium	146,000	
Manganese	1,452	
Sodium	749,000	

Dissolved Metals		
Magnesium	117,000	
Sodium	946,000	

Total Metals		
Magnesium	228,000	
Sodium	1,010,000	

PFA's Compound		
PFOA	0.0226	F
PFOS	0.0491	F

Total Metals		
Antimony	5.54	J
Arsenic	25.66	
Barium	3515	
Chromium	181.8	
Iron	63,700	
Lead	10,660	
Magnesium	162,000	
Manganese	2821	
Mercury	0.9	
Nickel	142.6	
Sodium	728,000	
Thallium	1.79	J
Zinc	2693	

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Benzo(a)anthracene	4.9	
Benzo(a)pyrene	5	
Benzo(b)fluoranthene	5.7	
Benzo(k)fluoranthene	1.7	
Chrysene	5.9	
Indeno(1,2,3-c-d)pyrene	3.6	

GW-1		
10/26/2020		
ANALYTE	Conc	Q
Benzo(a)anthracene	0.8	
Benzo(a)pyrene	0.86	
Benzo(b)fluoranthene	1.1	
Benzo(k)fluoranthene	0.3	
Chrysene	0.9	
Indeno(1,2,3-c-d)pyrene	0.63	

PFA's Compound		
PFOA	0.0926	
PFOS	0.522	

Organochlorine Pesticides		
Dieldrin	0.047	
4,4'-DDE	0.231	
4,4'-DDT	1.08	
Chlordane	0.766	

GW-2		
10/28/2020		
ANALYTE	Conc	Q
Benzo(a)anthracene	0.04	J
Benzo(a)pyrene	0.03	J
Benzo(b)fluoranthene	0.04	J
Benzo(k)fluoranthene	0.02	J
Chrysene	0.02	J
Indeno(1,2,3-c-d)pyrene	0.03	J
Phenol	6.2	

Dissolved Metals		
Antimony	4	
Magnesium	44,500	
Manganese	706.1	
Sodium	518,000	

PCBs		
Aroclor 1248	0.723	
Aroclor 1254	0.214	

Dissolved Metals		
Magnesium	53,200	
Manganese	2,281	
Sodium	615,000	

Total Metals		
Aluminum	27,700	
Iron	36,500	
Lead	3,501	
Magnesium	114,000	
Manganese	3,188	
Sodium	547,000	
Thallium	0.54	
Zinc	2,228	

PCBs		
Aroclor 1248	0.09	
Aroclor 1254	0.09	

Total Metals		
Arsenic	30	
Barium	4,612	
Beryllium	22	
Chromium	748	
Copper	1,617	
Iron	542,000	
Lead	352	
Magnesium	170,000	
Manganese	12,050	
Nickel	1,036	
Selenium	18.5	J
Sodium	636,000	
Thallium	7	J

PFA's Compound		
PFOA	0.0146	F
PFOS	0.0243	F

Organochlorine Pesticides		
Dieldrin	0.004	
4,4'-DDE	0.2	
4,4'-DDT	0.2	
Chlordane	0.05	

Total Metals		
Aluminum	3,260	
Iron	134,000	
Lead	76.5	
Magnesium	125,000	
Manganese	7,096	
Sodium	153,000	

NY-AWQS	
ANALYTE	(ug/l)
<b>SVOCs</b>	
Benzo(a)anthracene	0.002
Benzo(a)pyrene	0
Benzo(b)fluoranthene	0.002
Benzo(k)fluoranthene	0.002
Chrysene	0.002
Indeno(1,2,3-c-d)pyrene	0.002
Phenol	1
<b>Total Metals</b>	
Aluminum	NA
Antimony	3
Arsenic	25
Barium	1,000
Beryllium	3
Chromium	50
Copper	200
Iron	300
Lead	25
Magnesium	35,000
Manganese	300
Mercury	0.7
Nickel	100
Sodium	20,000
Selenium	10
Thallium	0.5
Zinc	2,000
<b>Organochlorine Pesticides</b>	
Dieldrin	0.004
4,4'-DDE	0.2
4,4'-DDT	0.2
Chlordane	0.05
<b>PCBs</b>	
Aroclor 1248	0.09
Aroclor 1254	0.09

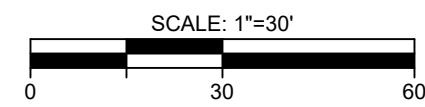
NY-MCL	
ANALYTE	(ug/l)
<b>PFA's Compounds</b>	
PFOA	0.01
PFOS	0.01

**NYS Education Law**  
 Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS D.P.C. 2021  
 This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS D.P.C. and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS D.P.C.

**REFERENCE**  
 SITE INFORMATION TAKEN FROM "EXISTING CONDITIONS & DEMOLITION PLAN" PREPARED BY NELSON & POPE ENGINEERS & SURVEYORS. DATED 5-02-19.

**NOTE:**  
 THIS PLAN IS FOR LOCATING GW SAMPLING ONLY. OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.



**LEGEND:**  
 GW-1 [Symbol] - GROUNDWATER SAMPLE NUMBER & APPROX. LOCATION

dwg by: yy  
 chk by: MF  
 scale: 1" = 40'  
 date: 12/01/2020

SOILS / FOUNDATIONS  
 SITE DESIGN  
 ENVIRONMENTAL

**SESI**  
 CONSULTING  
 ENGINEERS D.P.C.

12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050

329 HUGUENOT STREET  
 NEW ROCHELLE, NEW YORK

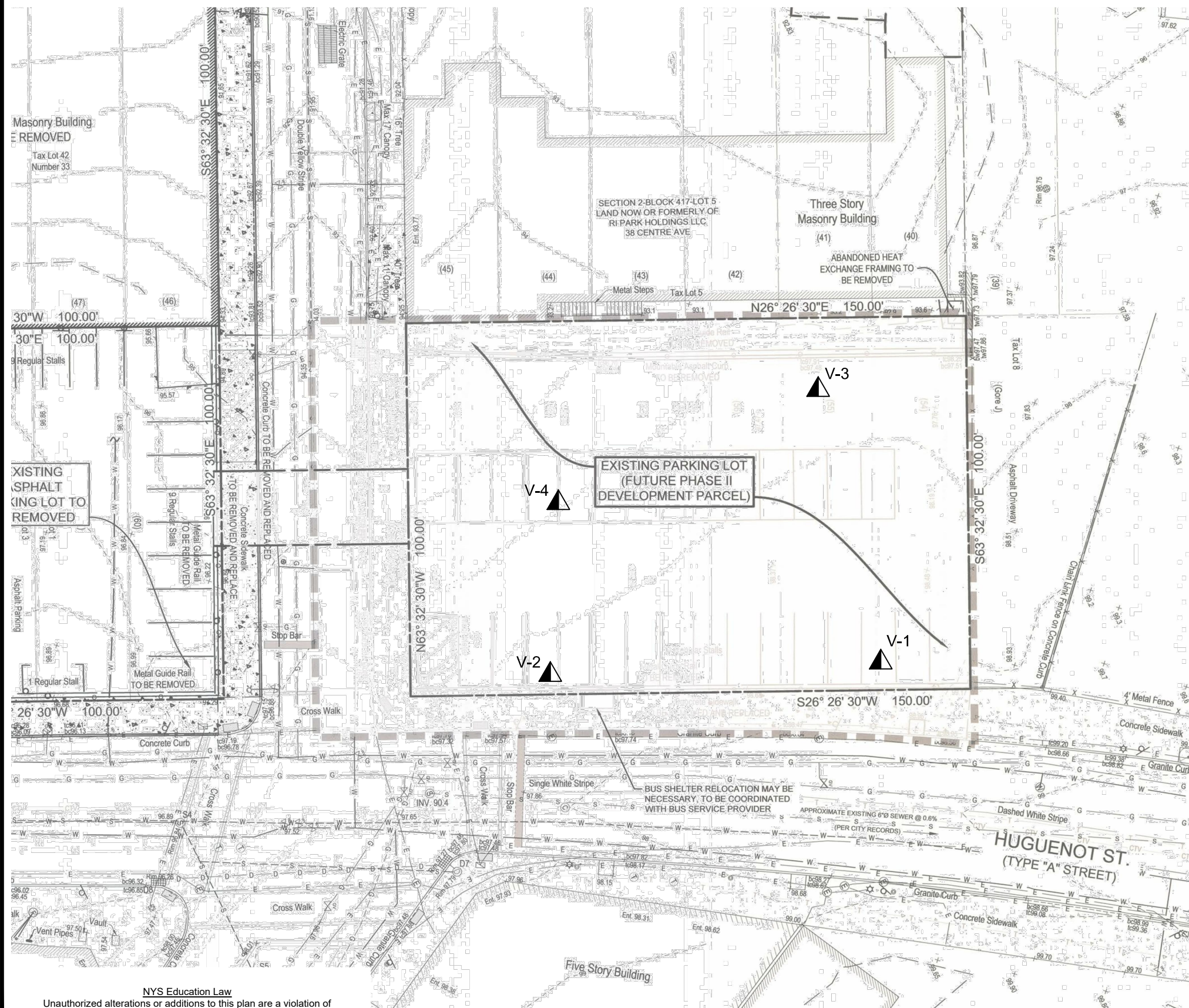
GROUNDWATER SAMPLING  
 RESULTS PLAN

job no: 10785  
 drawing no:

**FIG-3**

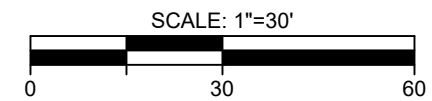


N:\ACAD\11571\CAD\PHASE II\11571 - FIG-4 - SOIL VAPOR SAMPLE LOCATION PLAN.DWG 01/07/21 04:26:43PM, .oss, LAYOUT:FIG-4



**LEGEND:**

V-1 ▲ - SOIL VAPOR SAMPLE NUMBER & APPROX. LOCATION



**NYS Education Law**  
Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

© SESI CONSULTING ENGINEERS D.P.C. 2021  
This drawing and all information contained here on is proprietary information of SESI CONSULTING ENGINEERS D.P.C. and may not be copied or reproduced, either in whole or in part, by any method, without written permission of SESI CONSULTING ENGINEERS D.P.C.

**REFERENCE**  
SITE INFORMATION TAKEN FROM "EXISTING CONDITIONS & DEMOLITION PLAN" PREPARED BY NELSON & POPE ENGINEERS & SURVEYORS. DATED 5-02-19.

**NOTE:**  
THIS PLAN IS FOR LOCATING SOIL VAPOR SAMPLING ONLY. OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.

dwg by: yy  
chk by: MF  
scale: 1" = 40'  
date: 01/07/2021

SOILS / FOUNDATIONS  
SITE DESIGN  
ENVIRONMENTAL

**SESI**  
CONSULTING  
ENGINEERS D.P.C.

12A MAPLE AVE. PINE BROOK, N.J. 07058 PH: 973-808-9050


329 HUGUENOT STREET  
NEW ROCHELLE, NEW YORK

SOIL VAPOR SAMPLING PLAN

job no: 10785  
drawing no:

**FIG-4**

**APPENDIX A**  
**Boring Logs**

				PROJECT NAME: 327 Huguenot		GEOPROBE NO. S-1	
				LOCATION: New Rochelle, NY		JOB NO. 11571	
				METHOD: Direct Push		GROUND ELEVATION: NA	
GEOPROBE BY: Aarco (Julio)				DATE STARTED: 10/22/20		GROUNDWATER TABLE DEPTH:	
INSPECTOR: JCS				DATE COMPLETED: 10/22/20		0 Hr. - 24 Hr. Date	
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			FROM (ft)	TO (ft)			
0			0	1		Asphalt	0
5			1		S-1 (2'-3')	FILL: BRICK, some brown coarse to fine Sand	0
	22	1				8.8	
						0	
10				6			0
			6		Light brown coarse to fine SAND, little Silt, trace Clay with Weathered Rock fragments	0	
	26	2				0	
				0			
15				12			0
	20	3			Boring Complete at 12 Feet BGS (Refusal) due to Direct Push refusal	0	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in


The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 2

				PROJECT NAME:		327 Huguenot		GEOPROBE NO.		S-2			
				LOCATION:		New Rochelle, NY		JOB NO.		11571			
				METHOD:		Direct Push		GROUND ELEVATION:		NA			
GEOPROBE BY:				Aarco (Julio)		DATE STARTED:		10/22/20		GROUNDWATER TABLE DEPTH:			
INSPECTOR:				JCS		DATE COMPLETED:		10/22/20		0 Hr. - 24 Hr. Date			
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID						
			FROM (ft)	TO (ft)									
0			0	1		Asphalt	0						
5			1			FILL: BRICK, some brown coarse to fine Sand.  S-2 (3'-4')	0						
	20	1			0								
					0								
10				6		Light brown coarse to fine SAND, little Silt, trace Clay with Weathered Rock fragments	0						
	26	2			0								
				9	0								
15						Boring Complete at 9 Feet BGS (Refusal) due to Direct Push refusal							
20						Boring Complete at 9 Feet BGS (Refusal) due to Direct Push refusal							
25						Boring Complete at 9 Feet BGS (Refusal) due to Direct Push refusal							
30						Boring Complete at 9 Feet BGS (Refusal) due to Direct Push refusal							
35						Boring Complete at 9 Feet BGS (Refusal) due to Direct Push refusal							
40						Boring Complete at 9 Feet BGS (Refusal) due to Direct Push refusal							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in.

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push


Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 3





				PROJECT NAME:		327 Huguenot		GEOPROBE NO.		S-4	
				LOCATION:		New Rochelle, NY		JOB NO.		11571	
				METHOD:		Direct Push		GROUND ELEVATION:		NA	
GEOPROBE BY:				Aarco (Julio)		DATE STARTED:		10/22/20		GROUNDWATER TABLE DEPTH:	
INSPECTOR:				JCS		DATE COMPLETED:		10/22/20		0 Hr. - 24 Hr. Date	
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID				
			FROM (ft)	TO (ft)							
0			0	1		Asphalt	0				
5			1			FILL: Brown coarse to fine SAND, some Brick and Concrete	0				
	32	1					0				
				5	S-4 (4'-5')		0				
10			5			Light brown coarse to fine SAND, trace Silt with Weathered Rock fragments	0				
	36	2					0				
				10			0				
15						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal	0				
							0				
							0				
20						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal	0				
							0				
							0				
25						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal	0				
							0				
							0				
30						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal	0				
							0				
							0				
35						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal	0				
							0				
							0				
40						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal	0				
							0				
							0				

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.


Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 5



				PROJECT NAME:		327 Huguenot		GEOPROBE NO.		S-5			
				LOCATION:		New Rochelle, NY		JOB NO.		11571			
				METHOD:		Direct Push		GROUND ELEVATION:		NA			
GEOPROBE BY:				Aarco (Julio)		DATE STARTED:		10/22/20		GROUNDWATER TABLE DEPTH:			
INSPECTOR:				JCS		DATE COMPLETED:		10/22/20		0 Hr. - 24 Hr. Date			
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID						
			FROM (ft)	TO (ft)									
0			0	1		Asphalt	0						
5			1			FILL: BRICK, some brown coarse to fine Sand	0						
	36	1			S-5 (2'-3')		0						
				5				0					
10			5			Light brown coarse to fine SAND, trace Silt with Weathered Rock fragments	0						
	20	2		7			0						
							Boring Complete at 7 Feet BGS (Refusal) due to Direct Push refusal						
15													
20													
25													
30													
35													
40													

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in.


The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 6

				PROJECT NAME: 327 Huguenot		GEOPROBE NO. S-6	
				LOCATION: New Rochelle, NY		JOB NO. 11571	
				METHOD: Direct Push		GROUND ELEVATION: NA	
GEOPROBE BY: Aarco (Julio)				DATE STARTED: 10/22/20		GROUNDWATER TABLE DEPTH:	
INSPECTOR: JCS				DATE COMPLETED: 10/22/20		0 Hr. - 24 Hr. Date	
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			FROM (ft)	TO (ft)			
0			0	1		Asphalt	0
5			1			FILL: Brown coarse to fine SAND, some Brick and Concrete fragments	0
	36	1					0
							0
10				6	S-6 (5'-6')		0
			6			Light brown coarse to fine SAND, trace Silt with Weathered Rock fragments	0
	38	2					0
			10		0		
15						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal	
20							
25							
30							
35							
40							


Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

				PROJECT NAME:		327 Huguenot		GEOPROBE NO.		S-7			
				LOCATION:		New Rochelle, NY		JOB NO.		11571			
				METHOD:		Direct Push		GROUND ELEVATION:		NA			
GEOPROBE BY:				Aarco (Julio)		DATE STARTED:		10/22/20		GROUNDWATER TABLE DEPTH:			
INSPECTOR:				JCS		DATE COMPLETED:		10/22/20		0 Hr. - 24 Hr. Date			
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID						
			FROM (ft)	TO (ft)									
0			0	1		Asphalt	0						
5			1			FILL: Brown coarse to fine SAND, some Brick and Concrete fragments	0						
	30	1			0								
					0								
				5	0								
10			5		S-7 (5'-6')	Light brown coarse to fine SAND, trace Silt with Weathered Rock fragments	0						
	34	2			0								
					0								
				10	0								
15						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							
20						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							
25						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							
30						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							
35						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							
40						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in


The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 8

				PROJECT NAME:		327 Huguenot		GEOPROBE NO.		S-8			
				LOCATION:		New Rochelle, NY		JOB NO.		11571			
				METHOD:		Direct Push		GROUND ELEVATION:		NA			
GEOPROBE BY:				Aarco (Julio)		DATE STARTED:		10/22/20		GROUNDWATER TABLE DEPTH:			
INSPECTOR:				JCS		DATE COMPLETED:		10/22/20		0 Hr. - 24 Hr. Date			
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID						
			FROM (ft)	TO (ft)									
0			0	1		Asphalt	0						
5			1			FILL: Brown coarse to fine SAND, some Brick and Concrete fragments	0						
	28	1			0								
					0								
				5	0								
10			5			Light brown coarse to fine SAND, trace Silt with Weathered Rock fragments, some staining / fuel odor from 8-9'	0						
	36	2			0								
					0								
				10	S-8 (8'-9')		67.2						
						0							
15						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							
20						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							
25						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							
30						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							
35						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							
40						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in


The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 9

				PROJECT NAME:		327 Huguenot		GEOPROBE NO.		S-9			
				LOCATION:		New Rochelle, NY		JOB NO.		11571			
				METHOD:		Direct Push		GROUND ELEVATION:		NA			
GEOPROBE BY:				Aarco (Julio)		DATE STARTED:		10/22/20		GROUNDWATER TABLE DEPTH:			
INSPECTOR:				JCS		DATE COMPLETED:		10/22/20		0 Hr. - 24 Hr. Date			
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID						
			FROM (ft)	TO (ft)									
0			0	1		Asphalt	0						
			1			FILL: Brown coarse to fine SAND, some Brick and Concrete	0						
	35	1					0						
							0						
5				5	S-9 (4'-5')		0						
			5			Light brown coarse to fine SAND, trace Silt with Weathered Rock fragments	0						
							0						
	38	2					0						
10				10			0						
						Boring Complete at 10 Feet BGS (Refusal) due to Direct Push refusal							
15													
20													
25													
30													
35													
40													


Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

				PROJECT NAME: 327 Huguenot		GEOPROBE NO. S-10	
				LOCATION: New Rochelle, NY		JOB NO. 11571	
				METHOD: Direct Push		GROUND ELEVATION: NA	
GEOPROBE BY: Aarco (Julio)				DATE STARTED: 10/22/20		GROUNDWATER TABLE DEPTH:	
INSPECTOR: JCS				DATE COMPLETED: 10/22/20		0 Hr. - 24 Hr. Date	
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			FROM (ft)	TO (ft)			
0			0	1		Asphalt	0
5	38	1	1			FILL: BRICK, some brown coarse to fine Sand	0
							0
							0
10	30	2		8	S-10 (6'-7')		0
				8			0
				10		Light brown coarse to fine SAND, little Silt, trace Clay with Weathered Rock fragments	0
15						Boring Complete at 9± Feet BGS due to Direct Push refusal	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in.


The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 11

				PROJECT NAME:		327 Huguenot		GEOPROBE NO.		S-11			
				LOCATION:		New Rochelle, NY		JOB NO.		11571			
				METHOD:		Direct Push		GROUND ELEVATION:		NA			
GEOPROBE BY:				Aarco (Julio)		DATE STARTED:		10/22/20		GROUNDWATER TABLE DEPTH:			
INSPECTOR:				JCS		DATE COMPLETED:		10/22/20		0 Hr. - 24 Hr. Date			
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID						
			FROM (ft)	TO (ft)									
0			0	1		Asphalt	0						
5			1			FILL: BRICK, some brown coarse to fine Sand	0						
	32	1			S-11 (2'-3')		0						
				5				0					
10			5			Light brown coarse to fine SAND, trace Silt with Weathered Rock fragments	0						
	38	2		8			0						
								0					
15						Boring Complete at 9± Feet BGS due to Direct Push refusal							
20						Boring Complete at 9± Feet BGS due to Direct Push refusal							
25						Boring Complete at 9± Feet BGS due to Direct Push refusal							
30						Boring Complete at 9± Feet BGS due to Direct Push refusal							
35						Boring Complete at 9± Feet BGS due to Direct Push refusal							
40						Boring Complete at 9± Feet BGS due to Direct Push refusal							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.


Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 12



				PROJECT NAME: 329 Huguenot		GEOPROBE NO. S-12	
				LOCATION: New Rochelle, NY		JOB NO. 11571	
				METHOD: Direct Push		GROUND ELEVATION: NA	
GEOPROBE BY: Aarco (Julio)				DATE STARTED: 11/18/20		GROUNDWATER TABLE DEPTH:	
INSPECTOR: JCS				DATE COMPLETED: 11/18/20		0 Hr. - 24 Hr. Date	
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			FROM (ft)	TO (ft)			
0			0	0.5		Asphalt	0
			0.5			FILL: Brown coarse to fine SAND, little coarse to fine Gravel with Brick and Concrete fragments	0
			30	1			0
							0
5				5	S-12 (3'-4')		0
							0
10			5			Light brown coarse to fine SAND, some coarse to fine Gravel, with Weathered Rock fragments	0
			34	2			0
							0
					9		0
15						Boring Complete at 9± Feet BGS due to Direct Push refusal	
20						Boring Complete at 9± Feet BGS due to Direct Push refusal	
25						Boring Complete at 9± Feet BGS due to Direct Push refusal	
30						Boring Complete at 9± Feet BGS due to Direct Push refusal	
35						Boring Complete at 9± Feet BGS due to Direct Push refusal	
40						Boring Complete at 9± Feet BGS due to Direct Push refusal	


Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in.

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

				PROJECT NAME:		329 Huguenot		GEOPROBE NO.		S-13			
				LOCATION:		New Rochelle, NY		JOB NO.		11571			
				METHOD:		Direct Push		GROUND ELEVATION:		NA			
GEOPROBE BY:				Aarco (Julio)		DATE STARTED:		11/18/20		GROUNDWATER TABLE DEPTH:			
INSPECTOR:				JCS		DATE COMPLETED:		11/18/20		0 Hr. - 24 Hr. Date			
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID						
			FROM (ft)	TO (ft)									
0			0	0.5		Asphalt	0						
5	33	1	0.5			FILL: Brown coarse to fine SAND with Brick and Concrete fragments	0						
							0						
							0						
10	38	2		7	S-13 (5'-6')		0						
				7			0						
				9		Light brown coarse to fine SAND, some coarse to fine Gravel with Weathered Rock fragments	0						
15						Boring Complete at 9± Feet BGS due to Direct Push refusal	0						
							0						
							0						
20							0						
							0						
							0						
25							0						
							0						
							0						
30							0						
							0						
							0						
35							0						
							0						
							0						
40							0						
							0						
							0						


Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

				PROJECT NAME: 329 Huguenot		GEOPROBE NO. S-14	
				LOCATION: New Rochelle, NY		JOB NO. 11571	
				METHOD: Direct Push		GROUND ELEVATION: NA	
GEOPROBE BY: Aarco (Julio)				DATE STARTED: 11/18/20		GROUNDWATER TABLE DEPTH:	
INSPECTOR: JCS				DATE COMPLETED: 11/18/20		0 Hr. - 24 Hr. Date	
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			FROM (ft)	TO (ft)			
0			0	0.5		Asphalt	0
5	35	1	0.5			FILL: Brown coarse to fine SAND, trace coarse to fine Gravel with fragments of brick and concrete	0
				5	S-14 (4'-5')		0
10	36	2	5			Light brown coarse to fine SAND, trace Silt with Weathered Rock at the bottom	0
				9			0
15						Boring Complete at 9± Feet BGS due to Direct Push refusal	0
20							0
25							0
30							0
35							0
40							0


Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

				PROJECT NAME: 329 Huguenot		GEOPROBE NO. S-15	
				LOCATION: New Rochelle, NY		JOB NO. 11571	
				METHOD: Direct Push		GROUND ELEVATION: NA	
GEOPROBE BY: Aarco (Julio)				DATE STARTED: 11/18/20		GROUNDWATER TABLE DEPTH:	
INSPECTOR: JCS				DATE COMPLETED: 11/18/20		0 Hr. - 24 Hr. Date	
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			FROM (ft)	TO (ft)			
0			0	0.5		Asphalt	0
			0.5			FILL: Brown coarse to fine SAND with fragments of brick and concrete	0
5	38	1					0
							0
							0
					S-15 (5'-6')		0
	40	2		7			0
			7	8		Weathered Rock	0
10						Boring Complete at 9± Feet BGS due to Direct Push refusal	
15							
20							
25							
30							
35							
40							


Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

				PROJECT NAME: 329 Huguenot		GEOPROBE NO. S-16		
				LOCATION: New Rochelle, NY		JOB NO. 11571		
				METHOD: Direct Push		GROUND ELEVATION: NA		
GEOPROBE BY: Aarco (Julio)				DATE STARTED: 11/18/20		GROUNDWATER TABLE DEPTH:		
INSPECTOR: JCS				DATE COMPLETED: 11/18/20		0 Hr.	-	
DEPTH (ft)		RECOVERY (in)	SAMPLE TUBE No.	DEPTH (ft)		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
0				FROM	TO			
				0	0.5		Asphalt	0
				0.5			FILL: Brown coarse to fine SAND, trace coarse to fine Gravel, with Brick and Concrete fragments	0
5		32	1					0
						S-16 (4'-5')		0
					6			0
							Weathered Rock	0
10		38	2	6	8			0
							Boring Complete at 9± Feet BGS due to Direct Push refusal	0
15								
20								
25								
30								
35								
40								


Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

				PROJECT NAME: 329 Huguenot		GEOPROBE NO. S-17	
				LOCATION: New Rochelle, NY		JOB NO. 11571	
				METHOD: Direct Push		GROUND ELEVATION: NA	
GEOPROBE BY: Aarco (Julio)				DATE STARTED: 11/18/20		GROUNDWATER TABLE DEPTH:	
INSPECTOR: JCS				DATE COMPLETED: 11/18/20		0 Hr.	24 Hr.
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			FROM (ft)	TO (ft)			
0			0	0.5		Asphalt	0
5			0.5			FILL: Brown coarse to fine SAND with fragments of brick and concrete	0
	32	1			S-17 (2'-3')		0
							0
10				6		Weathered Rock	0
	38	2	6	8			0
							0
15						Boring Complete at 9± Feet BGS due to Direct Push refusal	
20						Boring Complete at 9± Feet BGS due to Direct Push refusal	
25						Boring Complete at 9± Feet BGS due to Direct Push refusal	
30						Boring Complete at 9± Feet BGS due to Direct Push refusal	
35						Boring Complete at 9± Feet BGS due to Direct Push refusal	
40						Boring Complete at 9± Feet BGS due to Direct Push refusal	


Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in.

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

				PROJECT NAME: 329 Huguenot		GEOPROBE NO. S-18	
				LOCATION: New Rochelle, NY		JOB NO. 11571	
				METHOD: Direct Push		GROUND ELEVATION: NA	
GEOPROBE BY: Aarco (Julio)				DATE STARTED: 11/18/20		GROUNDWATER TABLE DEPTH:	
INSPECTOR: JCS				DATE COMPLETED: 11/18/20		0 Hr.	24 Hr.
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			FROM (ft)	TO (ft)			
0			0	0.5		Asphalt	0
5	34	1	0.5			FILL: Brown coarse to fine SAND with fragments of brick and concrete  S-18 (3'-4')	0
							0
							0
10	40	2	6			Weathered Rock	0
							0
				9			0
15						Boring Complete at 9± Feet BGS due to Direct Push refusal	
20						Boring Complete at 9± Feet BGS due to Direct Push refusal	
25						Boring Complete at 9± Feet BGS due to Direct Push refusal	
30						Boring Complete at 9± Feet BGS due to Direct Push refusal	
35						Boring Complete at 9± Feet BGS due to Direct Push refusal	
40						Boring Complete at 9± Feet BGS due to Direct Push refusal	

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in


The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push  
 Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 19



				PROJECT NAME: 329 Huguenot		GEOPROBE NO. S-19	
				LOCATION: New Rochelle, NY		JOB NO. 11571	
				METHOD: Direct Push		GROUND ELEVATION: NA	
GEOPROBE BY: Aarco (Julio)				DATE STARTED: 11/19/20		GROUNDWATER TABLE DEPTH:	
INSPECTOR: JCS				DATE COMPLETED: 11/19/20		0 Hr.	24 Hr.
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			FROM (ft)	TO (ft)			
0			0	0.5		Asphalt	0
5			0.5			FILL: Brown coarse to fine SAND, little coarse to fine Gravel with fragments of brick and concrete	0
	38	1			S-19 (2'-3')		0
							0
10				6		Weathered Rock	0
		2	6				0
	34						0
15				9		Boring Complete at 9± Feet BGS due to Direct Push refusal	0
							0
							0
20						Boring Complete at 9± Feet BGS due to Direct Push refusal	0
							0
							0
25						Boring Complete at 9± Feet BGS due to Direct Push refusal	0
							0
							0
30						Boring Complete at 9± Feet BGS due to Direct Push refusal	0
							0
							0
35						Boring Complete at 9± Feet BGS due to Direct Push refusal	0
							0
							0
40						Boring Complete at 9± Feet BGS due to Direct Push refusal	0
							0
							0

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.


Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 20



				PROJECT NAME: 329 Huguenot		GEOPROBE NO. S-21	
				LOCATION: New Rochelle, NY		JOB NO. 11571	
				METHOD: Direct Push		GROUND ELEVATION: NA	
GEOPROBE BY: Aarco (Julio)				DATE STARTED: 11/19/20		GROUNDWATER TABLE DEPTH:	
INSPECTOR: JCS				DATE COMPLETED: 11/19/20		0 Hr.	24 Hr.
DEPTH (ft)	RECOVERY (in)	SAMPLE TUBE No.	DEPTH		ENVIRONMENTAL SOIL SAMPLE NAME	SOIL DESCRIPTION AND STRATIFICATION	PID
			FROM (ft)	TO (ft)			
0			0	0.5		Asphalt	0
5			0.5			FILL: Brown coarse to fine SAND, little coarse to fine Gravel with fragments of brick	0
	34	1			S-21 (3'-4')		0
				5			0
10			5			Light brown coarse to fine SAND, little coarse to fine Gravel, trace Silt with weathered rock	0
	40	2					0
				8			0
15						----- Boring Complete at 9± Feet BGS due to Direct Push refusal	
20							
25							
30							
35							
40							

Nominal I.D. of Hole	in.
Nominal I.D. of Barrel Sampler	1 3/8 in

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted.

Pp: Pocket Penetrometer; DP: Direct Push

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

FIGURE 22

**APPENDIX B**  
**Laboratory Analytical Reports**



## ANALYTICAL REPORT

Lab Number:	L2046080
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Jesse Mausner
Phone:	(973) 808-9050
Project Name:	327 HUGUENOT
Project Number:	11571
Report Date:	11/04/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

---

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



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2046080-01	S-1 (2-3)	SOIL	NEW ROCHELLE, NY	10/22/20 08:20	10/23/20
L2046080-02	S-2 (3-4)	SOIL	NEW ROCHELLE, NY	10/22/20 08:40	10/23/20
L2046080-03	S-3 (1-2)	SOIL	NEW ROCHELLE, NY	10/22/20 09:10	10/23/20
L2046080-04	S-4 (4-5)	SOIL	NEW ROCHELLE, NY	10/22/20 09:45	10/23/20
L2046080-05	S-5 (2-3)	SOIL	NEW ROCHELLE, NY	10/22/20 10:45	10/23/20
L2046080-06	S-6 (5-6)	SOIL	NEW ROCHELLE, NY	10/22/20 10:05	10/23/20
L2046080-07	S-7 (5-6)	SOIL	NEW ROCHELLE, NY	10/22/20 11:45	10/23/20
L2046080-08	S-8 (8-9)	SOIL	NEW ROCHELLE, NY	10/22/20 12:10	10/23/20
L2046080-09	S-9 (4-5)	SOIL	NEW ROCHELLE, NY	10/22/20 12:25	10/23/20
L2046080-10	S-10 (6-7)	SOIL	NEW ROCHELLE, NY	10/22/20 12:50	10/23/20
L2046080-11	S-11 (2-3)	SOIL	NEW ROCHELLE, NY	10/22/20 13:05	10/23/20

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

### Case Narrative

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

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

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

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

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

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

---



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

### Case Narrative (continued)

#### Report Submission

November 04, 2020: This final report includes the results of all requested analyses.

October 30, 2020: This is a preliminary report.

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

#### Sample Receipt

The analyses performed were specified by the client.

#### Volatile Organics

L2046080-08: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (156%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

#### Perfluorinated Alkyl Acids by Isotope Dilution

L2046080-03, -06, -08, -09, and -11: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2046080-10: The MeOH fraction of the extraction is reported for the following compounds:

Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the Surrogates (Extracted Internal Standards).

#### PCBs

L2046080-02: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%,0%) and decachlorobiphenyl (0%,0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

### Case Narrative (continued)

#### Total Metals

L2046080-01 through -11: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

#### Cyanide, Total

The WG1426989-2/-3 LCS/LCSD recoveries for cyanide, total (67%/60%), associated with L2046080-01,-02,-03,-04,-06,-07,-08, and -09, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1426991-2/-3 LCS/LCSD recoveries for cyanide, total (66%/61%), associated with L2046080-10 and -11, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1427621-2/-3 LCS/LCSD recoveries for cyanide, total (68%/73%), associated with L2046080-05, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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

Authorized Signature:



Kelly Stenstrom

Title: Technical Director/Representative

Date: 11/04/20

# ORGANICS

# VOLATILES

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-01  
 Client ID: S-1 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:20  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/28/20 12:10  
 Analyst: MKS  
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	2.1		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-01  
 Client ID: S-1 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:20  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	13		ug/kg	2.0	0.55	1
o-Xylene	5.4		ug/kg	0.98	0.28	1
Xylenes, Total	18		ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.13	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.90	1
Acetone	ND		ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.4	1
2-Butanone	ND		ug/kg	9.8	2.2	1
Vinyl acetate	ND		ug/kg	9.8	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.98	0.16	1
sec-Butylbenzene	ND		ug/kg	0.98	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.98	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.11	1
Naphthalene	ND		ug/kg	3.9	0.64	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-01  
 Client ID: S-1 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:20  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.98	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	78	34.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.17	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	90		70-130



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-02  
 Client ID: S-2 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:40  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/28/20 12:36  
 Analyst: MKS  
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-02  
 Client ID: S-2 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:40  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-02  
 Client ID: S-2 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:40  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	84	37.	1
p-Diethylbenzene	0.43	J	ug/kg	2.1	0.18	1
p-Ethyltoluene	ND		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	89		70-130

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-03  
 Client ID: S-3 (1-2)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/28/20 13:02  
 Analyst: AD  
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.19	1
Benzene	ND		ug/kg	0.59	0.19	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.3	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-03  
 Client ID: S-3 (1-2)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.24	1
p/m-Xylene	ND		ug/kg	2.3	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.76	1
Acrylonitrile	ND		ug/kg	4.7	1.4	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-03  
 Client ID: S-3 (1-2)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	94	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.21	1
p-Ethyltoluene	ND		ug/kg	2.3	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	90		70-130

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-04  
 Client ID: S-4 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/28/20 13:27  
 Analyst: AD  
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.31	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-04  
 Client ID: S-4 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.6	1
Vinyl acetate	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-04  
 Client ID: S-4 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	91		70-130

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-05  
 Client ID: S-5 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/28/20 13:53  
 Analyst: AD  
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.23	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.63	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-05  
 Client ID: S-5 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.65	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.0	1
Acetone	ND		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-05  
 Client ID: S-5 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	93	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	90		70-130

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-06  
 Client ID: S-6 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/28/20 14:19  
 Analyst: AD  
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.3	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.86	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.86	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.86	0.11	1
Dibromochloromethane	ND		ug/kg	0.86	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.86	0.23	1
Tetrachloroethene	ND		ug/kg	0.43	0.17	1
Chlorobenzene	ND		ug/kg	0.43	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.60	1
1,2-Dichloroethane	ND		ug/kg	0.86	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.43	0.14	1
Bromodichloromethane	ND		ug/kg	0.43	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.43	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.43	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.43	0.14	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.43	0.14	1
Benzene	ND		ug/kg	0.43	0.14	1
Toluene	ND		ug/kg	0.86	0.47	1
Ethylbenzene	ND		ug/kg	0.86	0.12	1
Chloromethane	ND		ug/kg	3.4	0.80	1
Bromomethane	ND		ug/kg	1.7	0.50	1
Vinyl chloride	ND		ug/kg	0.86	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.86	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-06  
 Client ID: S-6 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.43	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.48	1
o-Xylene	ND		ug/kg	0.86	0.25	1
Xylenes, Total	ND		ug/kg	0.86	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.86	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	0.86	0.12	1
Dibromomethane	ND		ug/kg	1.7	0.20	1
Styrene	ND		ug/kg	0.86	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.6	0.78	1
Acetone	ND		ug/kg	8.6	4.1	1
Carbon disulfide	ND		ug/kg	8.6	3.9	1
2-Butanone	ND		ug/kg	8.6	1.9	1
Vinyl acetate	ND		ug/kg	8.6	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.6	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.6	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.86	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.43	0.11	1
Bromobenzene	ND		ug/kg	1.7	0.12	1
n-Butylbenzene	ND		ug/kg	0.86	0.14	1
sec-Butylbenzene	ND		ug/kg	0.86	0.12	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.86	1
Hexachlorobutadiene	ND		ug/kg	3.4	0.14	1
Isopropylbenzene	ND		ug/kg	0.86	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.86	0.09	1
Naphthalene	ND		ug/kg	3.4	0.56	1
Acrylonitrile	ND		ug/kg	3.4	0.99	1



**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-06  
 Client ID: S-6 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	0.86	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
1,4-Dioxane	ND		ug/kg	69	30.	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.33	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1
Ethyl ether	ND		ug/kg	1.7	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.3	1.2	1

**Tentatively Identified Compounds**

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	90		70-130

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-07  
 Client ID: S-7 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 11:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/28/20 14:45  
 Analyst: AD  
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.95	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.95	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.95	0.12	1
Dibromochloromethane	ND		ug/kg	0.95	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.95	0.25	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.95	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.95	0.52	1
Ethylbenzene	ND		ug/kg	0.95	0.13	1
Chloromethane	ND		ug/kg	3.8	0.89	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.95	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.95	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-07  
 Client ID: S-7 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 11:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.53	1
o-Xylene	ND		ug/kg	0.95	0.28	1
Xylenes, Total	ND		ug/kg	0.95	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.95	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.95	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.95	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.5	0.87	1
Acetone	ND		ug/kg	9.5	4.6	1
Carbon disulfide	ND		ug/kg	9.5	4.3	1
2-Butanone	ND		ug/kg	9.5	2.1	1
Vinyl acetate	ND		ug/kg	9.5	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.5	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.5	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.95	0.26	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.12	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.95	0.16	1
sec-Butylbenzene	ND		ug/kg	0.95	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.95	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.95	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.95	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-07  
 Client ID: S-7 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 11:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.95	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	76	33.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	90		70-130

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-08  
 Client ID: S-8 (8-9)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/29/20 01:31  
 Analyst: JC  
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.4	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-08  
 Client ID: S-8 (8-9)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.22	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.13	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-08  
 Client ID: S-8 (8-9)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1
p-Diethylbenzene	ND		ug/kg	2.1	0.19	1
p-Ethyltoluene	ND		ug/kg	2.1	0.41	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1

## Tentatively Identified Compounds

Total TIC Compounds	994	J	ug/kg			1
Unknown Alkane	46.7	J	ug/kg			1
Unknown Alkane	65.8	J	ug/kg			1
Adamantane, 1,3-Dimethyl-	121	NJ	ug/kg			1
Unknown	39.3	J	ug/kg			1
Unknown	61.3	J	ug/kg			1
Unknown Cyclohexane	41.9	J	ug/kg			1
Unknown	50.4	J	ug/kg			1
Unknown	53.5	J	ug/kg			1
Unknown	56.4	J	ug/kg			1
Unknown	49.4	J	ug/kg			1
Unknown Cyclohexane	69.1	J	ug/kg			1
Unknown Cyclohexane	85.5	J	ug/kg			1
Unknown	114	J	ug/kg			1
1,3,5-Trimethyladamantane	63.0	NJ	ug/kg			1
6-Tridecene, 7-methyl-	76.8	NJ	ug/kg			1



**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-08

Date Collected: 10/22/20 12:10

Client ID: S-8 (8-9)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Volatile Organics by EPA 5035 Low - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	<b>156</b>	Q	70-130
Dibromofluoromethane	91		70-130

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-09  
 Client ID: S-9 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:25  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/28/20 15:11  
 Analyst: AD  
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.13	1
Chloromethane	ND		ug/kg	3.8	0.89	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-09  
 Client ID: S-9 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:25  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
Xylenes, Total	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	ND		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
Vinyl acetate	ND		ug/kg	9.6	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.96	0.16	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.95	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.16	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
Acrylonitrile	ND		ug/kg	3.8	1.1	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-09  
 Client ID: S-9 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:25  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
1,4-Dioxane	ND		ug/kg	76	34.	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	91		70-130

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-10  
 Client ID: S-10 (6-7)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:50  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/28/20 15:37  
 Analyst: AD  
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-10  
 Client ID: S-10 (6-7)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:50  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.77	1
Acrylonitrile	ND		ug/kg	4.7	1.4	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-10  
 Client ID: S-10 (6-7)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:50  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	95	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	90		70-130



**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-11  
 Client ID: S-11 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 13:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 10/28/20 16:02  
 Analyst: AD  
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-11  
 Client ID: S-11 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 13:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.77	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-11  
 Client ID: S-11 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 13:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	95	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	90		70-130

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/28/20 07:00  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-07,09-11 Batch: WG1427598-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/28/20 07:00  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-07,09-11 Batch: WG1427598-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	0.24	J	ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
Analytical Date: 10/28/20 07:00  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-07,09-11 Batch: WG1427598-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	0.21	J	ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	0.19	J	ug/kg	1.0	0.11
Naphthalene	0.75	J	ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.54	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	0.59	J	ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	0.19	J	ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	0.27	J	ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

#### Tentatively Identified Compounds

Total TIC Compounds	14.2	J	ug/kg
Unknown	2.76	J	ug/kg
Unknown	2.68	J	ug/kg
Unknown	5.88	J	ug/kg
Cyclotrisiloxane, Hexamethyl-	2.85	NJ	ug/kg

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/28/20 07:00  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-07,09-11 Batch: WG1427598-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	87		70-130

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/28/20 18:09  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08 Batch: WG1427756-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/28/20 18:09  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08 Batch: WG1427756-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	0.27	J	ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/28/20 18:09  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08 Batch: WG1427756-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	0.30	J	ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	0.17	J	ug/kg	1.0	0.11
Naphthalene	0.72	J	ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.57	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	0.50	J	ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	0.22	J	ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	0.33	J	ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/28/20 18:09  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08 Batch: WG1427756-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	86		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-07,09-11 Batch: WG1427598-3 WG1427598-4								
Methylene chloride	92		91		70-130	1		30
1,1-Dichloroethane	102		100		70-130	2		30
Chloroform	88		89		70-130	1		30
Carbon tetrachloride	87		88		70-130	1		30
1,2-Dichloropropane	105		105		70-130	0		30
Dibromochloromethane	83		84		70-130	1		30
1,1,2-Trichloroethane	93		95		70-130	2		30
Tetrachloroethene	106		106		70-130	0		30
Chlorobenzene	91		92		70-130	1		30
Trichlorofluoromethane	85		83		70-139	2		30
1,2-Dichloroethane	92		93		70-130	1		30
1,1,1-Trichloroethane	96		95		70-130	1		30
Bromodichloromethane	88		89		70-130	1		30
trans-1,3-Dichloropropene	93		94		70-130	1		30
cis-1,3-Dichloropropene	95		96		70-130	1		30
1,1-Dichloropropene	109		108		70-130	1		30
Bromoform	83		82		70-130	1		30
1,1,2,2-Tetrachloroethane	91		91		70-130	0		30
Benzene	96		95		70-130	1		30
Toluene	99		99		70-130	0		30
Ethylbenzene	101		102		70-130	1		30
Chloromethane	105		102		52-130	3		30
Bromomethane	83		77		57-147	8		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-07,09-11 Batch: WG1427598-3 WG1427598-4								
Vinyl chloride	96		92		67-130	4		30
Chloroethane	86		83		50-151	4		30
1,1-Dichloroethene	106		102		65-135	4		30
trans-1,2-Dichloroethene	101		98		70-130	3		30
Trichloroethene	96		96		70-130	0		30
1,2-Dichlorobenzene	94		95		70-130	1		30
1,3-Dichlorobenzene	96		97		70-130	1		30
1,4-Dichlorobenzene	94		94		70-130	0		30
Methyl tert butyl ether	94		94		66-130	0		30
p/m-Xylene	99		100		70-130	1		30
o-Xylene	92		93		70-130	1		30
cis-1,2-Dichloroethene	95		94		70-130	1		30
Dibromomethane	86		86		70-130	0		30
Styrene	92		94		70-130	2		30
Dichlorodifluoromethane	93		90		30-146	3		30
Acetone	101		80		54-140	23		30
Carbon disulfide	80		77		59-130	4		30
2-Butanone	104		104		70-130	0		30
Vinyl acetate	110		107		70-130	3		30
4-Methyl-2-pentanone	108		110		70-130	2		30
1,2,3-Trichloropropane	92		92		68-130	0		30
2-Hexanone	97		99		70-130	2		30
Bromochloromethane	85		86		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-07,09-11 Batch: WG1427598-3 WG1427598-4								
2,2-Dichloropropane	98		98		70-130	0		30
1,2-Dibromoethane	91		93		70-130	2		30
1,3-Dichloropropane	94		96		69-130	2		30
1,1,1,2-Tetrachloroethane	87		88		70-130	1		30
Bromobenzene	90		89		70-130	1		30
n-Butylbenzene	104		104		70-130	0		30
sec-Butylbenzene	108		108		70-130	0		30
tert-Butylbenzene	104		103		70-130	1		30
o-Chlorotoluene	100		99		70-130	1		30
p-Chlorotoluene	98		98		70-130	0		30
1,2-Dibromo-3-chloropropane	95		97		68-130	2		30
Hexachlorobutadiene	103		104		67-130	1		30
Isopropylbenzene	106		104		70-130	2		30
p-Isopropyltoluene	106		106		70-130	0		30
Naphthalene	113		118		70-130	4		30
Acrylonitrile	115		116		70-130	1		30
n-Propylbenzene	106		104		70-130	2		30
1,2,3-Trichlorobenzene	99		103		70-130	4		30
1,2,4-Trichlorobenzene	104		106		70-130	2		30
1,3,5-Trimethylbenzene	102		102		70-130	0		30
1,2,4-Trimethylbenzene	100		100		70-130	0		30
1,4-Dioxane	125		128		65-136	2		30
p-Diethylbenzene	104		104		70-130	0		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046080

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-07,09-11 Batch: WG1427598-3 WG1427598-4								
p-Ethyltoluene	104		103		70-130	1		30
1,2,4,5-Tetramethylbenzene	107		108		70-130	1		30
Ethyl ether	95		94		67-130	1		30
trans-1,4-Dichloro-2-butene	105		109		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		91		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	88		88		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1427756-3 WG1427756-4								
Methylene chloride	88		90		70-130	2		30
1,1-Dichloroethane	98		99		70-130	1		30
Chloroform	86		88		70-130	2		30
Carbon tetrachloride	83		84		70-130	1		30
1,2-Dichloropropane	101		105		70-130	4		30
Dibromochloromethane	80		82		70-130	2		30
1,1,2-Trichloroethane	89		92		70-130	3		30
Tetrachloroethene	100		101		70-130	1		30
Chlorobenzene	87		90		70-130	3		30
Trichlorofluoromethane	74		74		70-139	0		30
1,2-Dichloroethane	90		93		70-130	3		30
1,1,1-Trichloroethane	92		94		70-130	2		30
Bromodichloromethane	86		89		70-130	3		30
trans-1,3-Dichloropropene	88		90		70-130	2		30
cis-1,3-Dichloropropene	92		95		70-130	3		30
1,1-Dichloropropene	103		104		70-130	1		30
Bromoform	78		81		70-130	4		30
1,1,2,2-Tetrachloroethane	87		88		70-130	1		30
Benzene	92		94		70-130	2		30
Toluene	94		96		70-130	2		30
Ethylbenzene	97		100		70-130	3		30
Chloromethane	98		98		52-130	0		30
Bromomethane	79		76		57-147	4		30



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1427756-3 WG1427756-4								
Vinyl chloride	85		85		67-130	0		30
Chloroethane	80		81		50-151	1		30
1,1-Dichloroethene	97		96		65-135	1		30
trans-1,2-Dichloroethene	95		96		70-130	1		30
Trichloroethene	94		95		70-130	1		30
1,2-Dichlorobenzene	90		93		70-130	3		30
1,3-Dichlorobenzene	92		94		70-130	2		30
1,4-Dichlorobenzene	90		93		70-130	3		30
Methyl tert butyl ether	91		93		66-130	2		30
p/m-Xylene	96		98		70-130	2		30
o-Xylene	88		91		70-130	3		30
cis-1,2-Dichloroethene	92		94		70-130	2		30
Dibromomethane	83		86		70-130	4		30
Styrene	89		92		70-130	3		30
Dichlorodifluoromethane	75		74		30-146	1		30
Acetone	73		87		54-140	18		30
Carbon disulfide	73		73		59-130	0		30
2-Butanone	98		92		70-130	6		30
Vinyl acetate	101		105		70-130	4		30
4-Methyl-2-pentanone	101		104		70-130	3		30
1,2,3-Trichloropropane	86		90		68-130	5		30
2-Hexanone	90		94		70-130	4		30
Bromochloromethane	83		85		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1427756-3 WG1427756-4								
2,2-Dichloropropane	95		94		70-130	1		30
1,2-Dibromoethane	86		90		70-130	5		30
1,3-Dichloropropane	90		93		69-130	3		30
1,1,1,2-Tetrachloroethane	85		88		70-130	3		30
Bromobenzene	86		88		70-130	2		30
n-Butylbenzene	97		100		70-130	3		30
sec-Butylbenzene	102		104		70-130	2		30
tert-Butylbenzene	99		101		70-130	2		30
o-Chlorotoluene	95		97		70-130	2		30
p-Chlorotoluene	93		96		70-130	3		30
1,2-Dibromo-3-chloropropane	89		93		68-130	4		30
Hexachlorobutadiene	95		99		67-130	4		30
Isopropylbenzene	100		102		70-130	2		30
p-Isopropyltoluene	100		102		70-130	2		30
Naphthalene	103		114		70-130	10		30
Acrylonitrile	109		112		70-130	3		30
n-Propylbenzene	100		102		70-130	2		30
1,2,3-Trichlorobenzene	94		100		70-130	6		30
1,2,4-Trichlorobenzene	96		102		70-130	6		30
1,3,5-Trimethylbenzene	97		100		70-130	3		30
1,2,4-Trimethylbenzene	96		98		70-130	2		30
1,4-Dioxane	120		132		65-136	10		30
p-Diethylbenzene	98		102		70-130	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046080

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08 Batch: WG1427756-3 WG1427756-4								
p-Ethyltoluene	99		101		70-130	2		30
1,2,4,5-Tetramethylbenzene	100		105		70-130	5		30
Ethyl ether	92		93		67-130	1		30
trans-1,4-Dichloro-2-butene	95		105		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	89		91		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	102		100		70-130
Dibromofluoromethane	90		90		70-130

# SEMIVOLATILES

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-01  
 Client ID: S-1 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:20  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/26/20 01:40  
 Analyst: EK  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	19	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	1100		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	27	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	75	J	ug/kg	180	61.	1
Butyl benzyl phthalate	230		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-01  
 Client ID: S-1 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:20  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	820		ug/kg	110	20.	1
Benzo(a)pyrene	930		ug/kg	140	43.	1
Benzo(b)fluoranthene	1100		ug/kg	110	30.	1
Benzo(k)fluoranthene	340		ug/kg	110	28.	1
Chrysene	900		ug/kg	110	18.	1
Acenaphthylene	120	J	ug/kg	140	27.	1
Anthracene	160		ug/kg	110	34.	1
Benzo(ghi)perylene	540		ug/kg	140	21.	1
Fluorene	20	J	ug/kg	180	17.	1
Phenanthrene	580		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	140		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	540		ug/kg	140	25.	1
Pyrene	1300		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-01  
 Client ID: S-1 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:20  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	58	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.2	1

**Tentatively Identified Compounds**

Total TIC Compounds	2430	J	ug/kg			1
Unknown	285	J	ug/kg			1
Unknown PAH	294	J	ug/kg			1
Unknown	306	J	ug/kg			1
Unknown	177	J	ug/kg			1
Unknown	532	J	ug/kg			1
Unknown Organic Acid	169	J	ug/kg			1
Unknown	174	J	ug/kg			1
Unknown PAH	260	J	ug/kg			1
Unknown PAH	231	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	73		18-120

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-01  
 Client ID: S-1 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:20  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/31/20 07:26  
 Analyst: JW  
 Percent Solids: 92%

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.496	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.496	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.496	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.496	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.496	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.496	0.060	1
Perfluorooctanoic Acid (PFOA)	0.072	J	ug/kg	0.496	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.496	0.178	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.496	0.135	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.496	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	0.958		ug/kg	0.496	0.129	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.496	0.067	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.496	0.285	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.496	0.200	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.496	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.496	0.152	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.496	0.097	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.496	0.084	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.496	0.070	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.496	0.203	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.496	0.054	1
PFOA/PFOS, Total	1.03	J	ug/kg	0.496	0.042	1



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-01

Date Collected: 10/22/20 08:20

Client ID: S-1 (2-3)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	84		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	39		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	45		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	46		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	111		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	62		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	46		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		26-160

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-02  
 Client ID: S-2 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:40  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/26/20 02:04  
 Analyst: EK  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	43	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	1400		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	58	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	260		ug/kg	180	64.	1
Butyl benzyl phthalate	920		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-02  
 Client ID: S-2 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:40  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	1400		ug/kg	110	21.	1
Benzo(a)pyrene	1300		ug/kg	150	45.	1
Benzo(b)fluoranthene	1400		ug/kg	110	31.	1
Benzo(k)fluoranthene	390		ug/kg	110	30.	1
Chrysene	1600		ug/kg	110	19.	1
Acenaphthylene	130	J	ug/kg	150	28.	1
Anthracene	230		ug/kg	110	36.	1
Benzo(ghi)perylene	730		ug/kg	150	22.	1
Fluorene	58	J	ug/kg	180	18.	1
Phenanthrene	980		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	200		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	640		ug/kg	150	26.	1
Pyrene	2100		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	37	J	ug/kg	180	18.	1
2-Methylnaphthalene	38	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	49	J	ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-02  
 Client ID: S-2 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:40  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	67	J	ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

## Tentatively Identified Compounds

Total TIC Compounds	6690	J	ug/kg			1
Unknown PAH	458	J	ug/kg			1
Unknown PAH	498	J	ug/kg			1
Unknown	584	J	ug/kg			1
Unknown	290	J	ug/kg			1
Unknown PAH	380	J	ug/kg			1
Unknown	260	J	ug/kg			1
Unknown	417	J	ug/kg			1
Unknown	564	J	ug/kg			1
Unknown PAH	253	J	ug/kg			1
Unknown PAH	260	J	ug/kg			1
Unknown	607	J	ug/kg			1
Unknown PAH	1180	J	ug/kg			1
Unknown Organic Acid	378	J	ug/kg			1
Unknown Ketone	254	J	ug/kg			1
Unknown	304	J	ug/kg			1

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-02

Date Collected: 10/22/20 08:40

Client ID: S-2 (3-4)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	65		18-120

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-02  
 Client ID: S-2 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:40  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/31/20 07:43  
 Analyst: JW  
 Percent Solids: 88%

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.512	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.512	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.512	0.040	1
Perfluorohexanoic Acid (PFHxA)	0.065	J	ug/kg	0.512	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.512	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.512	0.062	1
Perfluorooctanoic Acid (PFOA)	0.113	J	ug/kg	0.512	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.512	0.184	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.512	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.512	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	0.599		ug/kg	0.512	0.133	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.512	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.512	0.294	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.512	0.206	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.512	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.512	0.157	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.512	0.100	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.512	0.087	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.512	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.512	0.209	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.512	0.055	1
PFOA/PFOS, Total	0.712	J	ug/kg	0.512	0.043	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-02  
 Client ID: S-2 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:40  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	99		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	106		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	91		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	103		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	16		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		26-160

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-03  
 Client ID: S-3 (1-2)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/26/20 02:29  
 Analyst: EK  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	380		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	2000		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-03  
 Client ID: S-3 (1-2)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	330		ug/kg	120	23.	1
Benzo(a)pyrene	440		ug/kg	160	49.	1
Benzo(b)fluoranthene	490		ug/kg	120	34.	1
Benzo(k)fluoranthene	140		ug/kg	120	32.	1
Chrysene	350		ug/kg	120	21.	1
Acenaphthylene	38	J	ug/kg	160	31.	1
Anthracene	39	J	ug/kg	120	39.	1
Benzo(ghi)perylene	280		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	160		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	68	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	270		ug/kg	160	28.	1
Pyrene	450		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-03  
 Client ID: S-3 (1-2)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	25	J	ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.3	1

## Tentatively Identified Compounds

Total TIC Compounds	189	J	ug/kg			1
Unknown Organic Acid	189	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	58		18-120

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-03  
 Client ID: S-3 (1-2)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/31/20 07:59  
 Analyst: JW  
 Percent Solids: 83%

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.584	0.027	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.584	0.054	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.584	0.046	1
Perfluorohexanoic Acid (PFHxA)	0.072	J	ug/kg	0.584	0.061	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.584	0.053	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.584	0.071	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.584	0.049	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.584	0.210	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.584	0.159	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.584	0.088	1
Perfluorooctanesulfonic Acid (PFOS)	0.424	J	ug/kg	0.584	0.152	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.584	0.078	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.584	0.335	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.584	0.235	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.584	0.055	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.584	0.179	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.584	0.114	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.584	0.099	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.584	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.584	0.239	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.584	0.063	1
PFOA/PFOS, Total	0.424	J	ug/kg	0.584	0.049	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-03  
 Client ID: S-3 (1-2)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	102		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	104		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	45		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	92		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	66		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	37	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	112		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	81		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	40	Q	42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	73		26-160

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-04  
 Client ID: S-4 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/26/20 04:05  
 Analyst: EK  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	640		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	34	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	3100		ug/kg	190	65.	1
Butyl benzyl phthalate	93	J	ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-04  
 Client ID: S-4 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	440		ug/kg	110	21.	1
Benzo(a)pyrene	660		ug/kg	150	46.	1
Benzo(b)fluoranthene	720		ug/kg	110	32.	1
Benzo(k)fluoranthene	230		ug/kg	110	30.	1
Chrysene	520		ug/kg	110	20.	1
Acenaphthylene	110	J	ug/kg	150	29.	1
Anthracene	97	J	ug/kg	110	37.	1
Benzo(ghi)perylene	420		ug/kg	150	22.	1
Fluorene	30	J	ug/kg	190	18.	1
Phenanthrene	400		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	100	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	410		ug/kg	150	26.	1
Pyrene	680		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	20	J	ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-04  
 Client ID: S-4 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	50	J	ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

**Tentatively Identified Compounds**

Total TIC Compounds	786	J	ug/kg			1
Unknown Organic Acid	569	J	ug/kg			1
Unknown	217	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	71		18-120

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-04  
 Client ID: S-4 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/31/20 08:16  
 Analyst: JW  
 Percent Solids: 87%

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.522	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.522	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.522	0.041	1
Perfluorohexanoic Acid (PFHxA)	0.061	J	ug/kg	0.522	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.522	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.522	0.063	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.522	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.522	0.188	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.522	0.143	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.522	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	0.464	J	ug/kg	0.522	0.136	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.522	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.522	0.300	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.522	0.210	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.522	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.522	0.160	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.522	0.102	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.522	0.088	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.522	0.073	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.522	0.214	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.522	0.056	1
PFOA/PFOS, Total	0.464	J	ug/kg	0.522	0.044	1



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-04  
 Client ID: S-4 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	112		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	105		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	113		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	123		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	109		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	73		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	115		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	108		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	98		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	64		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	116		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	84		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	57		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	107		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	81		26-160

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-05  
 Client ID: S-5 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/26/20 00:28  
 Analyst: EK  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	340		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	80	J	ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-05  
 Client ID: S-5 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	250		ug/kg	110	22.	1
Benzo(a)pyrene	340		ug/kg	150	47.	1
Benzo(b)fluoranthene	400		ug/kg	110	32.	1
Benzo(k)fluoranthene	150		ug/kg	110	30.	1
Chrysene	290		ug/kg	110	20.	1
Acenaphthylene	74	J	ug/kg	150	30.	1
Anthracene	50	J	ug/kg	110	37.	1
Benzo(ghi)perylene	220		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	120		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	57	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	220		ug/kg	150	27.	1
Pyrene	380		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-05  
 Client ID: S-5 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

**Tentatively Identified Compounds**

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	42		10-136
4-Terphenyl-d14	71		18-120

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-05  
 Client ID: S-5 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/31/20 08:32  
 Analyst: JW  
 Percent Solids: 85%

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.561	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.561	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.561	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.561	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.561	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.561	0.068	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.561	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.561	0.201	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.561	0.153	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.561	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	0.399	J	ug/kg	0.561	0.146	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.561	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.561	0.322	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.561	0.226	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.561	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.561	0.172	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.561	0.110	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.561	0.095	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.561	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.561	0.229	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.561	0.061	1
PFOA/PFOS, Total	0.399	J	ug/kg	0.561	0.047	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-05  
 Client ID: S-5 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	108		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	112		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	106		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	113		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	123		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	109		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	113		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	125		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	113		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	85		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	103		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		26-160

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-06  
 Client ID: S-6 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/25/20 23:16  
 Analyst: EK  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	520		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-06  
 Client ID: S-6 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	220		ug/kg	110	20.	1
Benzo(a)pyrene	200		ug/kg	140	44.	1
Benzo(b)fluoranthene	210		ug/kg	110	30.	1
Benzo(k)fluoranthene	82	J	ug/kg	110	29.	1
Chrysene	250		ug/kg	110	19.	1
Acenaphthylene	32	J	ug/kg	140	28.	1
Anthracene	49	J	ug/kg	110	35.	1
Benzo(ghi)perylene	91	J	ug/kg	140	21.	1
Fluorene	26	J	ug/kg	180	17.	1
Phenanthrene	350		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	28	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	98	J	ug/kg	140	25.	1
Pyrene	480		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1



**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-06  
 Client ID: S-6 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	25	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

**Tentatively Identified Compounds**

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	94		18-120

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-06  
 Client ID: S-6 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/31/20 08:49  
 Analyst: JW  
 Percent Solids: 92%

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.515	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.515	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.515	0.040	1
Perfluorohexanoic Acid (PFHxA)	0.058	J	ug/kg	0.515	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.515	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.515	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.515	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.515	0.185	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.515	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.515	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	0.197	J	ug/kg	0.515	0.134	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.515	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.515	0.296	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.515	0.208	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.515	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.515	0.158	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.515	0.101	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.515	0.087	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.515	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.515	0.211	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.515	0.056	1
PFOA/PFOS, Total	0.197	J	ug/kg	0.515	0.043	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-06  
 Client ID: S-6 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	103		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	109		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	38		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	47		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	32	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	115		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	84		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	29	Q	42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		26-160

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-07  
 Client ID: S-7 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 11:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/26/20 00:04  
 Analyst: EK  
 Percent Solids: 86%

Extraction Method: EPA 3546  
 Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	530		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-07  
 Client ID: S-7 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 11:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	260		ug/kg	120	22.	1
Benzo(a)pyrene	230		ug/kg	150	47.	1
Benzo(b)fluoranthene	240		ug/kg	120	32.	1
Benzo(k)fluoranthene	78	J	ug/kg	120	31.	1
Chrysene	270		ug/kg	120	20.	1
Acenaphthylene	38	J	ug/kg	150	30.	1
Anthracene	60	J	ug/kg	120	37.	1
Benzo(ghi)perylene	110	J	ug/kg	150	22.	1
Fluorene	30	J	ug/kg	190	19.	1
Phenanthrene	480		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	33	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	150	27.	1
Pyrene	530		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	26	J	ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-07  
 Client ID: S-7 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 11:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	36	J	ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

## Tentatively Identified Compounds

Total TIC Compounds	169	J	ug/kg			1
Unknown PAH	169	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	80		18-120

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-07  
 Client ID: S-7 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 11:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/31/20 09:05  
 Analyst: JW  
 Percent Solids: 86%

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.554	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.554	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.554	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.554	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.554	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.554	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.554	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.554	0.199	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.554	0.151	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.554	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	0.237	J	ug/kg	0.554	0.144	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.554	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.554	0.318	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.554	0.223	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.554	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.554	0.170	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.554	0.109	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.554	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.554	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.554	0.227	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.554	0.060	1
PFOA/PFOS, Total	0.237	J	ug/kg	0.554	0.047	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-07  
 Client ID: S-7 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 11:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	109		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	120		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	95		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	115		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	115		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	16		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	102		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		26-160



**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-08  
 Client ID: S-8 (8-9)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/25/20 22:28  
 Analyst: EK  
 Percent Solids: 82%

Extraction Method: EPA 3546  
 Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-08  
 Client ID: S-8 (8-9)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	38	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	440	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	970	94.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	97.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-08  
 Client ID: S-8 (8-9)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	650	200	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1
1,4-Dioxane	ND		ug/kg	30	9.3	1

## Tentatively Identified Compounds

Total TIC Compounds	27000	J	ug/kg			1
Unknown	1060	J	ug/kg			1
Unknown	545	J	ug/kg			1
Unknown Alkane	5530	J	ug/kg			1
Unknown	1760	J	ug/kg			1
Unknown Alkane	1430	J	ug/kg			1
Unknown	1890	J	ug/kg			1
Unknown Alkane	4130	J	ug/kg			1
Unknown Alkane	1860	J	ug/kg			1
Unknown	410	J	ug/kg			1
Cyclic Octaatomic Sulfur	878	NJ	ug/kg			1
Unknown	1610	J	ug/kg			1
Unknown Alkane	1530	J	ug/kg			1
Unknown	1660	J	ug/kg			1
Unknown	414	J	ug/kg			1
Unknown	2300	J	ug/kg			1

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-08

Date Collected: 10/22/20 12:10

Client ID: S-8 (8-9)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	119		10-136
4-Terphenyl-d14	84		18-120

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-08  
 Client ID: S-8 (8-9)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/31/20 09:39  
 Analyst: JW  
 Percent Solids: 82%

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.554	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.554	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.554	0.043	1
Perfluorohexanoic Acid (PFHxA)	0.059	J	ug/kg	0.554	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.554	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.554	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.554	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.554	0.199	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.554	0.151	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.554	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	0.159	J	ug/kg	0.554	0.144	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.554	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.554	0.318	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.554	0.223	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.554	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.554	0.170	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.554	0.108	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.554	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.554	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.554	0.226	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.554	0.060	1
PFOA/PFOS, Total	0.159	J	ug/kg	0.554	0.046	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-08  
 Client ID: S-8 (8-9)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	104		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	113		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	126		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	52		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	112		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	71		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	40	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	118		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	85		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	43		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	107		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		26-160

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-09  
 Client ID: S-9 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:25  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/25/20 23:40  
 Analyst: EK  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	99	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	4100		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	260		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	69	J	ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-09  
 Client ID: S-9 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:25  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	2300		ug/kg	100	20.	1
Benzo(a)pyrene	2400		ug/kg	140	43.	1
Benzo(b)fluoranthene	2900		ug/kg	100	30.	1
Benzo(k)fluoranthene	1000		ug/kg	100	28.	1
Chrysene	2200		ug/kg	100	18.	1
Acenaphthylene	200		ug/kg	140	27.	1
Anthracene	770		ug/kg	100	34.	1
Benzo(ghi)perylene	1200		ug/kg	140	21.	1
Fluorene	170	J	ug/kg	180	17.	1
Phenanthrene	1700		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	350		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	1400		ug/kg	140	24.	1
Pyrene	3700		ug/kg	100	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	140	J	ug/kg	180	17.	1
2-Methylnaphthalene	94	J	ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-09  
 Client ID: S-9 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:25  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	160	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

## Tentatively Identified Compounds

Total TIC Compounds	8420	J	ug/kg			1
Unknown PAH	334	J	ug/kg			1
Unknown PAH	2020	J	ug/kg			1
Unknown PAH	244	J	ug/kg			1
Unknown PAH	341	J	ug/kg			1
Unknown Ketone	475	J	ug/kg			1
Unknown	2290	J	ug/kg			1
Unknown	220	J	ug/kg			1
Unknown PAH	200	J	ug/kg			1
Unknown Thiophene	184	J	ug/kg			1
Unknown	209	J	ug/kg			1
Unknown Organic Acid	279	J	ug/kg			1
Unknown PAH	644	J	ug/kg			1
Unknown Thiophene	202	J	ug/kg			1
Unknown PAH	464	J	ug/kg			1
Unknown PAH	313	J	ug/kg			1

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-09

Date Collected: 10/22/20 12:25

Client ID: S-9 (4-5)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	80		18-120

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-09  
 Client ID: S-9 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:25  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/31/20 09:55  
 Analyst: JW  
 Percent Solids: 92%

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.512	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.512	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.512	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.512	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.512	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.512	0.062	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.512	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.512	0.184	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.512	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.512	0.077	1
Perfluorooctanesulfonic Acid (PFOS)	0.333	JF	ug/kg	0.512	0.133	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.512	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.512	0.294	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.512	0.206	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.512	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.512	0.156	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.512	0.100	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.512	0.086	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.512	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.512	0.209	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.512	0.055	1
PFOA/PFOS, Total	0.333	J	ug/kg	0.512	0.043	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-09  
 Client ID: S-9 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:25  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	39		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	51		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	32	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	75		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	24	Q	42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	89		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		26-160

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-10  
 Client ID: S-10 (6-7)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:50  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/26/20 01:16  
 Analyst: EK  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	33	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	560		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-10  
 Client ID: S-10 (6-7)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:50  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	480		ug/kg	110	21.	1
Benzo(a)pyrene	400		ug/kg	150	45.	1
Benzo(b)fluoranthene	390		ug/kg	110	31.	1
Benzo(k)fluoranthene	100	J	ug/kg	110	29.	1
Chrysene	610		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	59	J	ug/kg	110	36.	1
Benzo(ghi)perylene	210		ug/kg	150	22.	1
Fluorene	22	J	ug/kg	180	18.	1
Phenanthrene	720		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	59	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	160		ug/kg	150	26.	1
Pyrene	990		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-10  
 Client ID: S-10 (6-7)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:50  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.4	1

## Tentatively Identified Compounds

Total TIC Compounds	3650	J	ug/kg			1
Unknown	166	J	ug/kg			1
Unknown PAH	394	J	ug/kg			1
Unknown PAH	352	J	ug/kg			1
Unknown PAH	154	J	ug/kg			1
Unknown	268	J	ug/kg			1
Unknown	330	J	ug/kg			1
Unknown PAH	168	J	ug/kg			1
Unknown PAH	227	J	ug/kg			1
Unknown PAH	402	J	ug/kg			1
Unknown PAH	331	J	ug/kg			1
Unknown PAH	191	J	ug/kg			1
Unknown	156	J	ug/kg			1
Unknown	336	J	ug/kg			1
Unknown Ketone	173	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	113		10-136
4-Terphenyl-d14	85		18-120

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-10  
 Client ID: S-10 (6-7)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:50  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/31/20 10:12  
 Analyst: JW  
 Percent Solids: 89%

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.506	0.023	1
Perfluoropentanoic Acid (PFPeA)	0.072	J	ug/kg	0.506	0.047	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.506	0.039	1
Perfluorohexanoic Acid (PFHxA)	0.076	J	ug/kg	0.506	0.053	1
Perfluoroheptanoic Acid (PFHpA)	0.068	J	ug/kg	0.506	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.506	0.061	1
Perfluorooctanoic Acid (PFOA)	0.138	JF	ug/kg	0.506	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.506	0.181	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.506	0.138	1
Perfluorononanoic Acid (PFNA)	0.115	J	ug/kg	0.506	0.076	1
Perfluorooctanesulfonic Acid (PFOS)	0.810	F	ug/kg	0.506	0.131	1
Perfluorodecanoic Acid (PFDA)	0.090	J	ug/kg	0.506	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.506	0.290	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.506	0.204	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.506	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.506	0.155	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.506	0.085	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.506	0.071	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.506	0.207	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.506	0.055	1
PFOA/PFOS, Total	0.948	J	ug/kg	0.506	0.042	1



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-10  
 Client ID: S-10 (6-7)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:50  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	100		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	98		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	112		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	80		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		64-158
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	81		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	102		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	76		26-160

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-10  
 Client ID: S-10 (6-7)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:50  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 11/02/20 14:46  
 Analyst: PB  
 Percent Solids: 89%

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.506	0.099	1
<b>Surrogate (Extracted Internal Standard)</b>			<b>% Recovery</b>	<b>Qualifier</b>	<b>Acceptance Criteria</b>	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			77		1-125	

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-11  
 Client ID: S-11 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 13:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 10/26/20 03:17  
 Analyst: EK  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	1400		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	34	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	180	J	ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-11  
 Client ID: S-11 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 13:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	900		ug/kg	120	22.	1
Benzo(a)pyrene	1000		ug/kg	160	48.	1
Benzo(b)fluoranthene	1200		ug/kg	120	33.	1
Benzo(k)fluoranthene	400		ug/kg	120	31.	1
Chrysene	1000		ug/kg	120	20.	1
Acenaphthylene	180		ug/kg	160	30.	1
Anthracene	160		ug/kg	120	38.	1
Benzo(ghi)perylene	590		ug/kg	160	23.	1
Fluorene	31	J	ug/kg	200	19.	1
Phenanthrene	520		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	160		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	600		ug/kg	160	27.	1
Pyrene	1500		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	450	45.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-11  
 Client ID: S-11 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 13:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	52	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

**Tentatively Identified Compounds**

Total TIC Compounds	3120	J	ug/kg			1
Unknown PAH	197	J	ug/kg			1
Unknown Ketone	186	J	ug/kg			1
Unknown PAH	160	J	ug/kg			1
Unknown PAH	314	J	ug/kg			1
Unknown PAH	172	J	ug/kg			1
Unknown PAH	777	J	ug/kg			1
Unknown PAH	274	J	ug/kg			1
Unknown	165	J	ug/kg			1
Unknown	283	J	ug/kg			1
Unknown PAH	188	J	ug/kg			1
Unknown	234	J	ug/kg			1
Unknown	174	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	115		10-136
4-Terphenyl-d14	91		18-120

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-11  
 Client ID: S-11 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 13:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/31/20 10:28  
 Analyst: JW  
 Percent Solids: 83%

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.569	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.569	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.569	0.044	1
Perfluorohexanoic Acid (PFHxA)	0.065	J	ug/kg	0.569	0.060	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.569	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.569	0.069	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.569	0.048	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.569	0.204	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.569	0.155	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.569	0.085	1
Perfluorooctanesulfonic Acid (PFOS)	0.574	F	ug/kg	0.569	0.148	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.569	0.076	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.569	0.327	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.569	0.229	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.569	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.569	0.174	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.569	0.112	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.569	0.096	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.569	0.080	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.569	0.233	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.569	0.061	1
PFOA/PFOS, Total	0.574		ug/kg	0.569	0.048	1

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-11

Date Collected: 10/22/20 13:05

Client ID: S-11 (2-3)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	104		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	104		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	111		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	46		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	56		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	42	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	119		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	84		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	33	Q	42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	105		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		26-160

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 10/25/20 19:37  
Analyst: EK

Extraction Method: EPA 3546  
Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1426260-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 10/25/20 19:37  
Analyst: EK

Extraction Method: EPA 3546  
Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1426260-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 10/25/20 19:37  
Analyst: EK

Extraction Method: EPA 3546  
Extraction Date: 10/25/20 00:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1426260-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.5

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	97		30-120
2,4,6-Tribromophenol	113		10-136
4-Terphenyl-d14	110		18-120

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 10/31/20 03:51  
**Analyst:** JW

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-11 Batch: WG1427921-1					
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.500	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.500	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.500	0.061
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.500	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.500	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	0.500	0.130
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.500	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.500	0.054
PFOA/PFOS, Total	ND		ug/kg	0.500	0.042

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 10/31/20 03:51  
Analyst: JW

Extraction Method: ALPHA 23528  
Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-11 Batch: WG1427921-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	114		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	120		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	120		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	114		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	122		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	136		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	115		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	87		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	106		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	120		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	113		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	100		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	88		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	120		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	19		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	82		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	105		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		26-160

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 11/02/20 14:21  
Analyst: PB

Extraction Method: ALPHA 23528  
Extraction Date: 10/29/20 10:45

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-11 Batch: WG1427921-1					
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	84		1-125

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1426260-2 WG1426260-3								
Acenaphthene	105		100		31-137	5		50
1,2,4-Trichlorobenzene	105		100		38-107	5		50
Hexachlorobenzene	124		119		40-140	4		50
Bis(2-chloroethyl)ether	95		90		40-140	5		50
2-Chloronaphthalene	108		105		40-140	3		50
1,2-Dichlorobenzene	97		91		40-140	6		50
1,3-Dichlorobenzene	95		90		40-140	5		50
1,4-Dichlorobenzene	95		91		28-104	4		50
3,3'-Dichlorobenzidine	82		80		40-140	2		50
2,4-Dinitrotoluene	122		116		40-132	5		50
2,6-Dinitrotoluene	124		121		40-140	2		50
Fluoranthene	114		111		40-140	3		50
4-Chlorophenyl phenyl ether	114		110		40-140	4		50
4-Bromophenyl phenyl ether	125		119		40-140	5		50
Bis(2-chloroisopropyl)ether	80		76		40-140	5		50
Bis(2-chloroethoxy)methane	97		94		40-117	3		50
Hexachlorobutadiene	114		110		40-140	4		50
Hexachlorocyclopentadiene	80		78		40-140	3		50
Hexachloroethane	96		92		40-140	4		50
Isophorone	99		95		40-140	4		50
Naphthalene	99		96		40-140	3		50
Nitrobenzene	94		90		40-140	4		50
NDPA/DPA	116		110		36-157	5		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1426260-2 WG1426260-3								
n-Nitrosodi-n-propylamine	98		94		32-121	4		50
Bis(2-ethylhexyl)phthalate	137		129		40-140	6		50
Butyl benzyl phthalate	135		130		40-140	4		50
Di-n-butylphthalate	127		120		40-140	6		50
Di-n-octylphthalate	125		120		40-140	4		50
Diethyl phthalate	117		112		40-140	4		50
Dimethyl phthalate	115		113		40-140	2		50
Benzo(a)anthracene	107		102		40-140	5		50
Benzo(a)pyrene	125		118		40-140	6		50
Benzo(b)fluoranthene	121		117		40-140	3		50
Benzo(k)fluoranthene	118		111		40-140	6		50
Chrysene	107		104		40-140	3		50
Acenaphthylene	111		107		40-140	4		50
Anthracene	108		105		40-140	3		50
Benzo(ghi)perylene	115		110		40-140	4		50
Fluorene	111		106		40-140	5		50
Phenanthrene	105		102		40-140	3		50
Dibenzo(a,h)anthracene	116		112		40-140	4		50
Indeno(1,2,3-cd)pyrene	122		116		40-140	5		50
Pyrene	110		107		35-142	3		50
Biphenyl	108		106		37-127	2		50
4-Chloroaniline	81		81		40-140	0		50
2-Nitroaniline	123		120		47-134	2		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1426260-2 WG1426260-3								
3-Nitroaniline	82		78		26-129	5		50
4-Nitroaniline	110		107		41-125	3		50
Dibenzofuran	107		102		40-140	5		50
2-Methylnaphthalene	105		102		40-140	3		50
1,2,4,5-Tetrachlorobenzene	116		112		40-117	4		50
Acetophenone	102		98		14-144	4		50
2,4,6-Trichlorophenol	120		117		30-130	3		50
p-Chloro-m-cresol	<b>113</b>	Q	<b>111</b>	Q	26-103	2		50
2-Chlorophenol	<b>105</b>	Q	101		25-102	4		50
2,4-Dichlorophenol	110		107		30-130	3		50
2,4-Dimethylphenol	106		103		30-130	3		50
2-Nitrophenol	109		107		30-130	2		50
4-Nitrophenol	100		97		11-114	3		50
2,4-Dinitrophenol	99		94		4-130	5		50
4,6-Dinitro-o-cresol	128		122		10-130	5		50
Pentachlorophenol	<b>114</b>	Q	<b>113</b>	Q	17-109	1		50
Phenol	<b>94</b>	Q	90		26-90	4		50
2-Methylphenol	102		99		30-130	3		50
3-Methylphenol/4-Methylphenol	109		105		30-130	4		50
2,4,5-Trichlorophenol	119		119		30-130	0		50
Benzoic Acid	<b>113</b>	Q	110		10-110	3		50
Benzyl Alcohol	100		96		40-140	4		50
Carbazole	106		104		54-128	2		50



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1426260-2 WG1426260-3								
1,4-Dioxane	62		60		40-140	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	90		87		25-120
Phenol-d6	89		87		10-120
Nitrobenzene-d5	85		83		23-120
2-Fluorobiphenyl	96		95		30-120
2,4,6-Tribromophenol	119		114		10-136
4-Terphenyl-d14	103		101		18-120

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-11 Batch: WG1427921-2 WG1427921-3								
Perfluorooctanesulfonamide (FOSA)	96		95		67-137	1		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	85		85		1-125

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-11 Batch: WG1427921-2 WG1427921-3								
Perfluorobutanoic Acid (PFBA)	106		108		71-135	2		30
Perfluoropentanoic Acid (PFPeA)	113		116		69-132	3		30
Perfluorobutanesulfonic Acid (PFBS)	112		116		72-128	4		30
Perfluorohexanoic Acid (PFHxA)	112		110		70-132	2		30
Perfluoroheptanoic Acid (PFHpA)	106		106		71-131	0		30
Perfluorohexanesulfonic Acid (PFHxS)	105		112		67-130	6		30
Perfluorooctanoic Acid (PFOA)	107		107		69-133	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	121		123		64-140	2		30
Perfluoroheptanesulfonic Acid (PFHpS)	107		107		70-132	0		30
Perfluorononanoic Acid (PFNA)	113		114		72-129	1		30
Perfluorooctanesulfonic Acid (PFOS)	116		113		68-136	3		30
Perfluorodecanoic Acid (PFDA)	105		106		69-133	1		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	123		106		65-137	15		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	90		104		63-144	14		30
Perfluoroundecanoic Acid (PFUnA)	108		108		64-136	0		30
Perfluorodecanesulfonic Acid (PFDS)	119		121		59-134	2		30
Perfluorooctanesulfonamide (FOSA)	106		103		67-137	3		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	105		112		61-139	6		30
Perfluorododecanoic Acid (PFDoA)	107		111		69-135	4		30
Perfluorotridecanoic Acid (PFTrDA)	103		105		66-139	2		30
Perfluorotetradecanoic Acid (PFTA)	117		119		69-133	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	---------------

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-11 Batch: WG1427921-2 WG1427921-3

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	111		108		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	115		110		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	110		114		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	110		108		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	117		114		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	120		124		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	110		109		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	84		95		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		99		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		115		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	108		106		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	93		111		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	91		85		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	115		112		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	23		28		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	86		82		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		100		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	67		68		26-160

# PCBS

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-01  
 Client ID: S-1 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:20  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 10/25/20 11:40  
 Analyst: JAW  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:49  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/24/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.9	3.10	1	A
Aroclor 1221	ND		ug/kg	34.9	3.50	1	A
Aroclor 1232	ND		ug/kg	34.9	7.41	1	A
Aroclor 1242	ND		ug/kg	34.9	4.71	1	A
Aroclor 1248	ND		ug/kg	34.9	5.24	1	A
Aroclor 1254	63.5	P	ug/kg	34.9	3.82	1	B
Aroclor 1260	ND		ug/kg	34.9	6.46	1	A
Aroclor 1262	ND		ug/kg	34.9	4.44	1	A
Aroclor 1268	ND		ug/kg	34.9	3.62	1	A
PCBs, Total	63.5		ug/kg	34.9	3.10	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-02 D  
 Client ID: S-2 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:40  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 10/25/20 15:22  
 Analyst: JAW  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:49  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/24/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	725	64.4	20	A
Aroclor 1221	ND		ug/kg	725	72.6	20	A
Aroclor 1232	ND		ug/kg	725	154.	20	A
Aroclor 1242	ND		ug/kg	725	97.7	20	A
Aroclor 1248	ND		ug/kg	725	109.	20	A
Aroclor 1254	4640		ug/kg	725	79.3	20	B
Aroclor 1260	ND		ug/kg	725	134.	20	A
Aroclor 1262	ND		ug/kg	725	92.1	20	A
Aroclor 1268	ND		ug/kg	725	75.1	20	A
PCBs, Total	4640		ug/kg	725	64.4	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-03  
 Client ID: S-3 (1-2)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 10/25/20 11:53  
 Analyst: JAW  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:49  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/24/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	39.9	3.54	1	A
Aroclor 1221	ND		ug/kg	39.9	4.00	1	A
Aroclor 1232	ND		ug/kg	39.9	8.46	1	A
Aroclor 1242	ND		ug/kg	39.9	5.38	1	A
Aroclor 1248	ND		ug/kg	39.9	5.99	1	A
Aroclor 1254	406		ug/kg	39.9	4.37	1	A
Aroclor 1260	ND		ug/kg	39.9	7.38	1	A
Aroclor 1262	ND		ug/kg	39.9	5.07	1	A
Aroclor 1268	ND		ug/kg	39.9	4.14	1	A
PCBs, Total	406		ug/kg	39.9	3.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	69		30-150	B



**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-04  
 Client ID: S-4 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 10/25/20 12:00  
 Analyst: JAW  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:49  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/24/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	37.1	3.29	1	A
Aroclor 1221	ND		ug/kg	37.1	3.72	1	A
Aroclor 1232	ND		ug/kg	37.1	7.86	1	A
Aroclor 1242	ND		ug/kg	37.1	5.00	1	A
Aroclor 1248	ND		ug/kg	37.1	5.56	1	A
Aroclor 1254	14.9	J	ug/kg	37.1	4.06	1	A
Aroclor 1260	ND		ug/kg	37.1	6.85	1	A
Aroclor 1262	ND		ug/kg	37.1	4.71	1	A
Aroclor 1268	ND		ug/kg	37.1	3.84	1	A
PCBs, Total	14.9	J	ug/kg	37.1	3.29	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	67		30-150	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-05  
 Client ID: S-5 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 10/25/20 15:29  
 Analyst: JAW  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:49  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/24/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	36.9	3.28	1	A
Aroclor 1221	ND		ug/kg	36.9	3.70	1	A
Aroclor 1232	ND		ug/kg	36.9	7.82	1	A
Aroclor 1242	ND		ug/kg	36.9	4.98	1	A
Aroclor 1248	ND		ug/kg	36.9	5.54	1	A
Aroclor 1254	112		ug/kg	36.9	4.04	1	A
Aroclor 1260	ND		ug/kg	36.9	6.82	1	A
Aroclor 1262	ND		ug/kg	36.9	4.69	1	A
Aroclor 1268	ND		ug/kg	36.9	3.82	1	A
PCBs, Total	112		ug/kg	36.9	3.28	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	68		30-150	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-06  
 Client ID: S-6 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 10/25/20 12:14  
 Analyst: JAW  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:49  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/24/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.5	3.06	1	A
Aroclor 1221	ND		ug/kg	34.5	3.46	1	A
Aroclor 1232	ND		ug/kg	34.5	7.32	1	A
Aroclor 1242	ND		ug/kg	34.5	4.65	1	A
Aroclor 1248	ND		ug/kg	34.5	5.18	1	A
Aroclor 1254	17.5	J	ug/kg	34.5	3.78	1	A
Aroclor 1260	ND		ug/kg	34.5	6.38	1	A
Aroclor 1262	ND		ug/kg	34.5	4.38	1	A
Aroclor 1268	ND		ug/kg	34.5	3.58	1	A
PCBs, Total	17.5	J	ug/kg	34.5	3.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	56		30-150	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-07  
 Client ID: S-7 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 11:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 10/25/20 12:21  
 Analyst: JAW  
 Percent Solids: 86%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:49  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/24/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	36.6	3.25	1	A
Aroclor 1221	ND		ug/kg	36.6	3.67	1	A
Aroclor 1232	ND		ug/kg	36.6	7.76	1	A
Aroclor 1242	ND		ug/kg	36.6	4.94	1	A
Aroclor 1248	ND		ug/kg	36.6	5.49	1	A
Aroclor 1254	ND		ug/kg	36.6	4.01	1	A
Aroclor 1260	ND		ug/kg	36.6	6.77	1	A
Aroclor 1262	ND		ug/kg	36.6	4.65	1	A
Aroclor 1268	ND		ug/kg	36.6	3.79	1	A
PCBs, Total	ND		ug/kg	36.6	3.25	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	60		30-150	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-08  
 Client ID: S-8 (8-9)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 10/25/20 12:28  
 Analyst: JAW  
 Percent Solids: 82%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:49  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/24/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	40.1	3.56	1	A
Aroclor 1221	ND		ug/kg	40.1	4.02	1	A
Aroclor 1232	ND		ug/kg	40.1	8.51	1	A
Aroclor 1242	ND		ug/kg	40.1	5.41	1	A
Aroclor 1248	ND		ug/kg	40.1	6.02	1	A
Aroclor 1254	ND		ug/kg	40.1	4.39	1	A
Aroclor 1260	ND		ug/kg	40.1	7.41	1	A
Aroclor 1262	ND		ug/kg	40.1	5.10	1	A
Aroclor 1268	ND		ug/kg	40.1	4.16	1	A
PCBs, Total	ND		ug/kg	40.1	3.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	58		30-150	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-09  
 Client ID: S-9 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:25  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 10/25/20 12:42  
 Analyst: JAW  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:49  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/24/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	35.3	3.14	1	A
Aroclor 1221	ND		ug/kg	35.3	3.54	1	A
Aroclor 1232	ND		ug/kg	35.3	7.49	1	A
Aroclor 1242	ND		ug/kg	35.3	4.76	1	A
Aroclor 1248	ND		ug/kg	35.3	5.30	1	A
Aroclor 1254	26.3	J	ug/kg	35.3	3.86	1	A
Aroclor 1260	ND		ug/kg	35.3	6.52	1	A
Aroclor 1262	ND		ug/kg	35.3	4.48	1	A
Aroclor 1268	ND		ug/kg	35.3	3.66	1	A
PCBs, Total	26.3	J	ug/kg	35.3	3.14	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-10  
 Client ID: S-10 (6-7)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:50  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 10/25/20 12:48  
 Analyst: JAW  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:49  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/24/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.6	3.25	1	A
Aroclor 1221	ND		ug/kg	36.6	3.67	1	A
Aroclor 1232	ND		ug/kg	36.6	7.76	1	A
Aroclor 1242	ND		ug/kg	36.6	4.93	1	A
Aroclor 1248	ND		ug/kg	36.6	5.49	1	A
Aroclor 1254	ND		ug/kg	36.6	4.00	1	A
Aroclor 1260	ND		ug/kg	36.6	6.76	1	A
Aroclor 1262	ND		ug/kg	36.6	4.65	1	A
Aroclor 1268	ND		ug/kg	36.6	3.79	1	A
PCBs, Total	ND		ug/kg	36.6	3.25	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-11  
 Client ID: S-11 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 13:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 10/25/20 12:55  
 Analyst: JAW  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:49  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/24/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.4	3.50	1	A
Aroclor 1221	ND		ug/kg	39.4	3.95	1	A
Aroclor 1232	ND		ug/kg	39.4	8.36	1	A
Aroclor 1242	ND		ug/kg	39.4	5.32	1	A
Aroclor 1248	ND		ug/kg	39.4	5.92	1	A
Aroclor 1254	ND		ug/kg	39.4	4.31	1	A
Aroclor 1260	ND		ug/kg	39.4	7.29	1	A
Aroclor 1262	ND		ug/kg	39.4	5.01	1	A
Aroclor 1268	ND		ug/kg	39.4	4.08	1	A
PCBs, Total	ND		ug/kg	39.4	3.50	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	54		30-150	B



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 10/25/20 10:17  
Analyst: SH

Extraction Method: EPA 3546  
Extraction Date: 10/23/20 21:25  
Cleanup Method: EPA 3665A  
Cleanup Date: 10/24/20  
Cleanup Method: EPA 3660B  
Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-11 Batch: WG1425855-1						
Aroclor 1016	ND		ug/kg	32.8	2.91	A
Aroclor 1221	ND		ug/kg	32.8	3.28	A
Aroclor 1232	ND		ug/kg	32.8	6.95	A
Aroclor 1242	ND		ug/kg	32.8	4.42	A
Aroclor 1248	ND		ug/kg	32.8	4.91	A
Aroclor 1254	ND		ug/kg	32.8	3.58	A
Aroclor 1260	ND		ug/kg	32.8	6.06	A
Aroclor 1262	ND		ug/kg	32.8	4.16	A
Aroclor 1268	ND		ug/kg	32.8	3.39	A
PCBs, Total	ND		ug/kg	32.8	2.91	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	75		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-11 Batch: WG1425855-2 WG1425855-3									
Aroclor 1016	85		87		40-140	2		50	A
Aroclor 1260	80		85		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		70		30-150	A
Decachlorobiphenyl	78		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		75		30-150	B
Decachlorobiphenyl	70		69		30-150	B

# PESTICIDES

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-01  
 Client ID: S-1 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:20  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 10/25/20 19:11  
 Analyst: JMC  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.334	1	A
Lindane	ND		ug/kg	0.710	0.318	1	A
Alpha-BHC	ND		ug/kg	0.710	0.202	1	A
Beta-BHC	ND		ug/kg	1.70	0.647	1	A
Heptachlor	ND		ug/kg	0.853	0.382	1	A
Aldrin	ND		ug/kg	1.70	0.600	1	A
Heptachlor epoxide	ND		ug/kg	3.20	0.959	1	A
Endrin	ND		ug/kg	0.710	0.291	1	A
Endrin aldehyde	ND		ug/kg	2.13	0.746	1	A
Endrin ketone	ND		ug/kg	1.70	0.439	1	A
Dieldrin	ND		ug/kg	1.06	0.533	1	A
4,4'-DDE	3.06	IP	ug/kg	1.70	0.394	1	A
4,4'-DDD	ND		ug/kg	1.70	0.608	1	A
4,4'-DDT	6.64		ug/kg	3.20	1.37	1	B
Endosulfan I	ND		ug/kg	1.70	0.403	1	A
Endosulfan II	ND		ug/kg	1.70	0.570	1	A
Endosulfan sulfate	ND		ug/kg	0.710	0.338	1	A
Methoxychlor	ND		ug/kg	3.20	0.995	1	A
Toxaphene	ND		ug/kg	32.0	8.95	1	A
cis-Chlordane	5.36		ug/kg	2.13	0.594	1	A
trans-Chlordane	3.21		ug/kg	2.13	0.563	1	A
Chlordane	ND		ug/kg	14.2	5.65	1	A

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-01

Date Collected: 10/22/20 08:20

Client ID: S-1 (2-3)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	143		30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-02  
 Client ID: S-2 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:40  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 10/25/20 19:22  
 Analyst: JMC  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.353	1	A
Lindane	ND		ug/kg	0.752	0.336	1	A
Alpha-BHC	ND		ug/kg	0.752	0.213	1	A
Beta-BHC	ND		ug/kg	1.80	0.684	1	A
Heptachlor	ND		ug/kg	0.902	0.404	1	A
Aldrin	ND		ug/kg	1.80	0.635	1	A
Heptachlor epoxide	32.2	P	ug/kg	3.38	1.01	1	B
Endrin	ND		ug/kg	0.752	0.308	1	A
Endrin aldehyde	ND		ug/kg	2.25	0.789	1	A
Endrin ketone	ND		ug/kg	1.80	0.464	1	A
Dieldrin	ND		ug/kg	1.13	0.564	1	A
4,4'-DDE	139		ug/kg	1.80	0.417	1	A
4,4'-DDD	11.8		ug/kg	1.80	0.643	1	B
4,4'-DDT	251	E	ug/kg	3.38	1.45	1	B
Endosulfan I	ND		ug/kg	1.80	0.426	1	A
Endosulfan II	ND		ug/kg	1.80	0.603	1	A
Endosulfan sulfate	ND		ug/kg	0.752	0.358	1	A
Methoxychlor	ND		ug/kg	3.38	1.05	1	A
Toxaphene	ND		ug/kg	33.8	9.47	1	A
cis-Chlordane	22.2		ug/kg	2.25	0.628	1	A
trans-Chlordane	48.7	P	ug/kg	2.25	0.595	1	B
Chlordane	262	P	ug/kg	15.0	5.98	1	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-02

Date Collected: 10/22/20 08:40

Client ID: S-2 (3-4)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	119		30-150	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-02 D

Date Collected: 10/22/20 08:40

Client ID: S-2 (3-4)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8081B

Extraction Date: 10/24/20 06:21

Analytical Date: 10/27/20 16:49

Cleanup Method: EPA 3620B

Analyst: JMC

Cleanup Date: 10/24/20

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
4,4'-DDT	368	P	ug/kg	16.9	7.25	5	B



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-03  
 Client ID: S-3 (1-2)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 10/26/20 15:03  
 Analyst: JMC  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.92	0.376	1	A
Lindane	ND		ug/kg	0.800	0.358	1	A
Alpha-BHC	ND		ug/kg	0.800	0.227	1	A
Beta-BHC	ND		ug/kg	1.92	0.728	1	A
Heptachlor	ND		ug/kg	0.960	0.430	1	A
Aldrin	ND		ug/kg	1.92	0.676	1	A
Heptachlor epoxide	1.77	JIP	ug/kg	3.60	1.08	1	A
Endrin	ND		ug/kg	0.800	0.328	1	A
Endrin aldehyde	ND		ug/kg	2.40	0.840	1	A
Endrin ketone	ND		ug/kg	1.92	0.494	1	A
Dieldrin	ND		ug/kg	1.20	0.600	1	A
4,4'-DDE	11.0		ug/kg	1.92	0.444	1	A
4,4'-DDD	1.86	J	ug/kg	1.92	0.685	1	B
4,4'-DDT	26.5		ug/kg	3.60	1.54	1	B
Endosulfan I	ND		ug/kg	1.92	0.454	1	A
Endosulfan II	ND		ug/kg	1.92	0.642	1	A
Endosulfan sulfate	ND		ug/kg	0.800	0.381	1	A
Methoxychlor	ND		ug/kg	3.60	1.12	1	A
Toxaphene	ND		ug/kg	36.0	10.1	1	A
cis-Chlordane	1.21	JIP	ug/kg	2.40	0.669	1	B
trans-Chlordane	2.62	IP	ug/kg	2.40	0.634	1	A
Chlordane	70.5	P	ug/kg	16.0	6.36	1	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-03

Date Collected: 10/22/20 09:10

Client ID: S-3 (1-2)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-04  
 Client ID: S-4 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 09:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 10/26/20 15:14  
 Analyst: JMC  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.347	1	A
Lindane	ND		ug/kg	0.739	0.330	1	A
Alpha-BHC	ND		ug/kg	0.739	0.210	1	A
Beta-BHC	ND		ug/kg	1.77	0.672	1	A
Heptachlor	ND		ug/kg	0.887	0.398	1	A
Aldrin	ND		ug/kg	1.77	0.624	1	A
Heptachlor epoxide	ND	I	ug/kg	3.32	0.998	1	B
Endrin	ND		ug/kg	0.739	0.303	1	A
Endrin aldehyde	ND		ug/kg	2.22	0.776	1	A
Endrin ketone	ND		ug/kg	1.77	0.457	1	A
Dieldrin	12.4		ug/kg	1.11	0.554	1	A
4,4'-DDE	9.97		ug/kg	1.77	0.410	1	B
4,4'-DDD	5.47		ug/kg	1.77	0.632	1	A
4,4'-DDT	18.8		ug/kg	3.32	1.43	1	A
Endosulfan I	ND		ug/kg	1.77	0.419	1	A
Endosulfan II	ND		ug/kg	1.77	0.593	1	A
Endosulfan sulfate	ND		ug/kg	0.739	0.352	1	A
Methoxychlor	35.7	IP	ug/kg	3.32	1.03	1	A
Toxaphene	ND		ug/kg	33.2	9.31	1	A
cis-Chlordane	7.83		ug/kg	2.22	0.618	1	A
trans-Chlordane	8.24		ug/kg	2.22	0.585	1	B
Chlordane	88.4		ug/kg	14.8	5.87	1	A

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-04

Date Collected: 10/22/20 09:45

Client ID: S-4 (4-5)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-05  
 Client ID: S-5 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 10/26/20 15:25  
 Analyst: JMC  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.359	1	A
Lindane	ND		ug/kg	0.764	0.342	1	A
Alpha-BHC	ND		ug/kg	0.764	0.217	1	A
Beta-BHC	ND		ug/kg	1.83	0.695	1	A
Heptachlor	ND		ug/kg	0.917	0.411	1	A
Aldrin	ND		ug/kg	1.83	0.646	1	A
Heptachlor epoxide	2.46	JIP	ug/kg	3.44	1.03	1	B
Endrin	ND		ug/kg	0.764	0.313	1	A
Endrin aldehyde	ND		ug/kg	2.29	0.802	1	A
Endrin ketone	ND		ug/kg	1.83	0.472	1	A
Dieldrin	3.19		ug/kg	1.15	0.573	1	B
4,4'-DDE	123		ug/kg	1.83	0.424	1	B
4,4'-DDD	14.9		ug/kg	1.83	0.654	1	B
4,4'-DDT	677	E	ug/kg	3.44	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.433	1	A
Endosulfan II	ND		ug/kg	1.83	0.613	1	A
Endosulfan sulfate	ND		ug/kg	0.764	0.364	1	A
Methoxychlor	ND		ug/kg	3.44	1.07	1	A
Toxaphene	ND		ug/kg	34.4	9.63	1	A
cis-Chlordane	4.55		ug/kg	2.29	0.639	1	B
trans-Chlordane	3.07	IP	ug/kg	2.29	0.605	1	A
Chlordane	73.6		ug/kg	15.3	6.08	1	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-05

Date Collected: 10/22/20 10:45

Client ID: S-5 (2-3)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	77		30-150	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-05 D

Date Collected: 10/22/20 10:45

Client ID: S-5 (2-3)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8081B

Extraction Date: 10/24/20 06:21

Analytical Date: 10/27/20 08:19

Cleanup Method: EPA 3620B

Analyst: SL

Cleanup Date: 10/24/20

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
4,4'-DDT	1090		ug/kg	34.4	14.7	10	A

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-06  
 Client ID: S-6 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 10:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 10/26/20 15:37  
 Analyst: JMC  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.323	1	A
Lindane	ND		ug/kg	0.687	0.307	1	A
Alpha-BHC	ND		ug/kg	0.687	0.195	1	A
Beta-BHC	ND		ug/kg	1.65	0.625	1	A
Heptachlor	ND		ug/kg	0.824	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.580	1	A
Heptachlor epoxide	ND		ug/kg	3.09	0.928	1	A
Endrin	ND		ug/kg	0.687	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.721	1	A
Endrin ketone	ND		ug/kg	1.65	0.424	1	A
Dieldrin	3.49		ug/kg	1.03	0.515	1	A
4,4'-DDE	11.4		ug/kg	1.65	0.381	1	B
4,4'-DDD	1.62	J	ug/kg	1.65	0.588	1	A
4,4'-DDT	7.17		ug/kg	3.09	1.32	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.551	1	A
Endosulfan sulfate	ND		ug/kg	0.687	0.327	1	A
Methoxychlor	2.85	JIP	ug/kg	3.09	0.962	1	A
Toxaphene	ND		ug/kg	30.9	8.66	1	A
cis-Chlordane	3.34		ug/kg	2.06	0.574	1	A
trans-Chlordane	3.40		ug/kg	2.06	0.544	1	A
Chlordane	56.3		ug/kg	13.7	5.46	1	B



**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-06

Date Collected: 10/22/20 10:05

Client ID: S-6 (5-6)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-07  
 Client ID: S-7 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 11:45  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 10/26/20 15:48  
 Analyst: JMC  
 Percent Solids: 86%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.82	0.358	1	A
Lindane	ND		ug/kg	0.761	0.340	1	A
Alpha-BHC	ND		ug/kg	0.761	0.216	1	A
Beta-BHC	ND		ug/kg	1.82	0.692	1	A
Heptachlor	ND		ug/kg	0.913	0.409	1	A
Aldrin	ND		ug/kg	1.82	0.643	1	A
Heptachlor epoxide	ND		ug/kg	3.42	1.03	1	A
Endrin	ND		ug/kg	0.761	0.312	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.799	1	A
Endrin ketone	ND		ug/kg	1.82	0.470	1	A
Dieldrin	ND		ug/kg	1.14	0.571	1	A
4,4'-DDE	ND		ug/kg	1.82	0.422	1	A
4,4'-DDD	ND		ug/kg	1.82	0.651	1	A
4,4'-DDT	6.46		ug/kg	3.42	1.47	1	B
Endosulfan I	ND		ug/kg	1.82	0.431	1	A
Endosulfan II	ND		ug/kg	1.82	0.610	1	A
Endosulfan sulfate	ND		ug/kg	0.761	0.362	1	A
Methoxychlor	4.38		ug/kg	3.42	1.06	1	A
Toxaphene	ND		ug/kg	34.2	9.59	1	A
cis-Chlordane	32.5		ug/kg	2.28	0.636	1	A
trans-Chlordane	32.8		ug/kg	2.28	0.602	1	A
Chlordane	287		ug/kg	15.2	6.05	1	A

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-07

Date Collected: 10/22/20 11:45

Client ID: S-7 (5-6)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-08  
 Client ID: S-8 (8-9)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:10  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 10/26/20 17:20  
 Analyst: JMC  
 Percent Solids: 82%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.365	1	A
Lindane	ND		ug/kg	0.777	0.347	1	A
Alpha-BHC	ND		ug/kg	0.777	0.221	1	A
Beta-BHC	ND		ug/kg	1.86	0.707	1	A
Heptachlor	ND		ug/kg	0.932	0.418	1	A
Aldrin	ND		ug/kg	1.86	0.657	1	A
Heptachlor epoxide	ND		ug/kg	3.50	1.05	1	A
Endrin	ND		ug/kg	0.777	0.318	1	A
Endrin aldehyde	ND		ug/kg	2.33	0.816	1	A
Endrin ketone	ND		ug/kg	1.86	0.480	1	A
Dieldrin	1.02	JIP	ug/kg	1.16	0.583	1	B
4,4'-DDE	ND		ug/kg	1.86	0.431	1	A
4,4'-DDD	ND		ug/kg	1.86	0.665	1	A
4,4'-DDT	ND		ug/kg	3.50	1.50	1	A
Endosulfan I	ND		ug/kg	1.86	0.440	1	A
Endosulfan II	ND		ug/kg	1.86	0.623	1	A
Endosulfan sulfate	ND		ug/kg	0.777	0.370	1	A
Methoxychlor	ND		ug/kg	3.50	1.09	1	A
Toxaphene	ND		ug/kg	35.0	9.79	1	A
cis-Chlordane	26.8		ug/kg	2.33	0.650	1	A
trans-Chlordane	9.22		ug/kg	2.33	0.615	1	A
Chlordane	329		ug/kg	15.5	6.18	1	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-08

Date Collected: 10/22/20 12:10

Client ID: S-8 (8-9)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	119		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	119		30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-09  
 Client ID: S-9 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:25  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 10/26/20 17:32  
 Analyst: JMC  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.331	1	A
Lindane	ND		ug/kg	0.704	0.315	1	A
Alpha-BHC	ND		ug/kg	0.704	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.641	1	A
Heptachlor	ND		ug/kg	0.845	0.379	1	A
Aldrin	ND		ug/kg	1.69	0.595	1	A
Heptachlor epoxide	0.953	JP	ug/kg	3.17	0.950	1	A
Endrin	ND		ug/kg	0.704	0.289	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.739	1	A
Endrin ketone	ND		ug/kg	1.69	0.435	1	A
Dieldrin	8.42		ug/kg	1.06	0.528	1	A
4,4'-DDE	10.2		ug/kg	1.69	0.391	1	A
4,4'-DDD	3.84		ug/kg	1.69	0.603	1	B
4,4'-DDT	42.0		ug/kg	3.17	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.399	1	A
Endosulfan II	ND		ug/kg	1.69	0.564	1	A
Endosulfan sulfate	ND		ug/kg	0.704	0.335	1	A
Methoxychlor	ND		ug/kg	3.17	0.986	1	A
Toxaphene	ND		ug/kg	31.7	8.87	1	A
cis-Chlordane	9.05		ug/kg	2.11	0.588	1	B
trans-Chlordane	6.14		ug/kg	2.11	0.558	1	B
Chlordane	78.6	P	ug/kg	14.1	5.60	1	B

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

**SAMPLE RESULTS**

Lab ID: L2046080-09  
 Client ID: S-9 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:25  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	156	Q	30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-10  
 Client ID: S-10 (6-7)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 12:50  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 10/26/20 17:43  
 Analyst: JMC  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.344	1	A
Lindane	ND		ug/kg	0.731	0.327	1	A
Alpha-BHC	ND		ug/kg	0.731	0.208	1	A
Beta-BHC	ND		ug/kg	1.75	0.665	1	A
Heptachlor	ND		ug/kg	0.877	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.618	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.987	1	A
Endrin	ND		ug/kg	0.731	0.300	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.767	1	A
Endrin ketone	ND		ug/kg	1.75	0.452	1	A
Dieldrin	0.892	JIP	ug/kg	1.10	0.548	1	B
4,4'-DDE	6.58		ug/kg	1.75	0.406	1	A
4,4'-DDD	1.33	JIP	ug/kg	1.75	0.626	1	B
4,4'-DDT	8.77	IP	ug/kg	3.29	1.41	1	B
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.586	1	A
Endosulfan sulfate	ND		ug/kg	0.731	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.21	1	A
cis-Chlordane	ND		ug/kg	2.19	0.611	1	A
trans-Chlordane	2.32		ug/kg	2.19	0.579	1	B
Chlordane	30.1		ug/kg	14.6	5.81	1	B



**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-10

Date Collected: 10/22/20 12:50

Client ID: S-10 (6-7)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-11  
 Client ID: S-11 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 13:05  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 10/26/20 17:55  
 Analyst: JMC  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 10/24/20 06:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.369	1	A
Lindane	ND		ug/kg	0.786	0.351	1	A
Alpha-BHC	ND		ug/kg	0.786	0.223	1	A
Beta-BHC	ND		ug/kg	1.88	0.715	1	A
Heptachlor	ND		ug/kg	0.943	0.423	1	A
Aldrin	ND		ug/kg	1.88	0.664	1	A
Heptachlor epoxide	ND		ug/kg	3.54	1.06	1	A
Endrin	ND		ug/kg	0.786	0.322	1	A
Endrin aldehyde	ND		ug/kg	2.36	0.825	1	A
Endrin ketone	ND		ug/kg	1.88	0.486	1	A
Dieldrin	ND		ug/kg	1.18	0.589	1	A
4,4'-DDE	21.3		ug/kg	1.88	0.436	1	A
4,4'-DDD	2.02		ug/kg	1.88	0.672	1	B
4,4'-DDT	42.4		ug/kg	3.54	1.52	1	B
Endosulfan I	ND		ug/kg	1.88	0.445	1	A
Endosulfan II	ND		ug/kg	1.88	0.630	1	A
Endosulfan sulfate	ND		ug/kg	0.786	0.374	1	A
Methoxychlor	ND		ug/kg	3.54	1.10	1	A
Toxaphene	ND		ug/kg	35.4	9.90	1	A
cis-Chlordane	5.95		ug/kg	2.36	0.657	1	B
trans-Chlordane	7.72		ug/kg	2.36	0.622	1	A
Chlordane	60.5		ug/kg	15.7	6.25	1	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20**SAMPLE RESULTS**

Lab ID: L2046080-11

Date Collected: 10/22/20 13:05

Client ID: S-11 (2-3)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	81		30-150	B

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 10/24/20 08:28  
Analyst: JMC

Extraction Method: EPA 3546  
Extraction Date: 10/23/20 17:36  
Cleanup Method: EPA 3620B  
Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-11 Batch: WG1425805-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.632	0.283	A
Alpha-BHC	ND		ug/kg	0.632	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.759	0.340	A
Aldrin	ND		ug/kg	1.52	0.534	A
Heptachlor epoxide	ND		ug/kg	2.85	0.854	A
Endrin	ND		ug/kg	0.632	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.949	0.474	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.541	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.507	A
Endosulfan sulfate	ND		ug/kg	0.632	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.886	A
Toxaphene	ND		ug/kg	28.5	7.97	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.6	5.03	A

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 10/24/20 08:28  
Analyst: JMC

Extraction Method: EPA 3546  
Extraction Date: 10/23/20 17:36  
Cleanup Method: EPA 3620B  
Cleanup Date: 10/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-11 Batch: WG1425805-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	57		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-11 Batch: WG1425805-2 WG1425805-3									
Delta-BHC	83		88		30-150	6		30	A
Lindane	83		89		30-150	7		30	A
Alpha-BHC	84		91		30-150	8		30	A
Beta-BHC	103		112		30-150	8		30	A
Heptachlor	94		103		30-150	9		30	A
Aldrin	77		86		30-150	11		30	A
Heptachlor epoxide	87		99		30-150	13		30	A
Endrin	88		101		30-150	14		30	A
Endrin aldehyde	73		80		30-150	9		30	A
Endrin ketone	77		81		30-150	5		30	A
Dieldrin	76		85		30-150	11		30	A
4,4'-DDE	74		82		30-150	10		30	A
4,4'-DDD	79		90		30-150	13		30	A
4,4'-DDT	88		102		30-150	15		30	A
Endosulfan I	85		92		30-150	8		30	A
Endosulfan II	91		101		30-150	10		30	A
Endosulfan sulfate	74		81		30-150	9		30	A
Methoxychlor	92		103		30-150	11		30	A
cis-Chlordane	68		76		30-150	11		30	A
trans-Chlordane	85		87		30-150	2		30	A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-11 Batch: WG1425805-2 WG1425805-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	77		84		30-150	A
Decachlorobiphenyl	89		99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		72		30-150	B
Decachlorobiphenyl	78		86		30-150	B

## METALS



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-01  
 Client ID: S-1 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/22/20 08:20  
 Date Received: 10/23/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	6180		mg/kg	8.27	2.23	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.14	0.314	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Arsenic, Total	1.22		mg/kg	0.827	0.172	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Barium, Total	49.3		mg/kg	0.827	0.144	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Beryllium, Total	0.182	J	mg/kg	0.414	0.027	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Cadmium, Total	0.174	J	mg/kg	0.827	0.081	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Calcium, Total	7360		mg/kg	8.27	2.89	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Chromium, Total	10.3		mg/kg	0.827	0.079	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Cobalt, Total	6.29		mg/kg	1.65	0.137	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Copper, Total	16.3		mg/kg	0.827	0.213	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Iron, Total	10700		mg/kg	4.14	0.747	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Lead, Total	10.8		mg/kg	4.14	0.222	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Magnesium, Total	3090		mg/kg	8.27	1.27	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Manganese, Total	386		mg/kg	0.827	0.132	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.073	0.048	1	10/27/20 21:22	10/28/20 21:30	EPA 7471B	1,7471B	AL
Nickel, Total	10.6		mg/kg	2.07	0.200	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Potassium, Total	1450		mg/kg	207	11.9	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.65	0.213	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.827	0.234	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Sodium, Total	452		mg/kg	165	2.60	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.65	0.260	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Vanadium, Total	16.8		mg/kg	0.827	0.168	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD
Zinc, Total	17.8		mg/kg	4.14	0.242	2	10/27/20 20:50	10/29/20 17:51	EPA 3050B	1,6010D	GD



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-02

Date Collected: 10/22/20 08:40

Client ID: S-2 (3-4)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	3100		mg/kg	9.01	2.43	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.51	0.342	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Arsenic, Total	2.23		mg/kg	0.901	0.187	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Barium, Total	774		mg/kg	0.901	0.157	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Beryllium, Total	0.144	J	mg/kg	0.451	0.030	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Cadmium, Total	0.874	J	mg/kg	0.901	0.088	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Calcium, Total	30900		mg/kg	9.01	3.15	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Chromium, Total	7.35		mg/kg	0.901	0.087	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Cobalt, Total	2.98		mg/kg	1.80	0.150	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Copper, Total	9.99		mg/kg	0.901	0.232	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Iron, Total	3850		mg/kg	4.51	0.814	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Lead, Total	1190		mg/kg	4.51	0.242	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Magnesium, Total	4240		mg/kg	9.01	1.39	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Manganese, Total	79.0		mg/kg	0.901	0.143	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Mercury, Total	0.258		mg/kg	0.080	0.052	1	10/27/20 21:22	10/28/20 21:34	EPA 7471B	1,7471B	AL
Nickel, Total	6.53		mg/kg	2.25	0.218	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Potassium, Total	540		mg/kg	225	13.0	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.80	0.232	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.901	0.255	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Sodium, Total	542		mg/kg	180	2.84	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.80	0.284	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Vanadium, Total	25.3		mg/kg	0.901	0.183	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD
Zinc, Total	604		mg/kg	4.51	0.264	2	10/27/20 20:50	10/29/20 17:55	EPA 3050B	1,6010D	GD



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-03

Date Collected: 10/22/20 09:10

Client ID: S-3 (1-2)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	7710		mg/kg	9.42	2.54	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.71	0.358	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Arsenic, Total	2.16		mg/kg	0.942	0.196	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Barium, Total	92.4		mg/kg	0.942	0.164	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Beryllium, Total	0.094	J	mg/kg	0.471	0.031	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Cadmium, Total	0.292	J	mg/kg	0.942	0.092	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Calcium, Total	33000		mg/kg	9.42	3.30	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Chromium, Total	18.4		mg/kg	0.942	0.090	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Cobalt, Total	7.47		mg/kg	1.88	0.156	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Copper, Total	17.2		mg/kg	0.942	0.243	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Iron, Total	13000		mg/kg	4.71	0.850	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Lead, Total	28.7		mg/kg	4.71	0.252	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Magnesium, Total	18400		mg/kg	9.42	1.45	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Manganese, Total	282		mg/kg	0.942	0.150	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/27/20 21:22	10/28/20 21:37	EPA 7471B	1,7471B	AL
Nickel, Total	14.0		mg/kg	2.35	0.228	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Potassium, Total	3450		mg/kg	235	13.6	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Selenium, Total	0.480	J	mg/kg	1.88	0.243	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.942	0.266	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Sodium, Total	392		mg/kg	188	2.97	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.88	0.297	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Vanadium, Total	24.7		mg/kg	0.942	0.191	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD
Zinc, Total	49.9		mg/kg	4.71	0.276	2	10/27/20 20:50	10/29/20 18:00	EPA 3050B	1,6010D	GD



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-04

Date Collected: 10/22/20 09:45

Client ID: S-4 (4-5)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	8400		mg/kg	8.83	2.38	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.41	0.335	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Arsenic, Total	1.48		mg/kg	0.883	0.184	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Barium, Total	86.4		mg/kg	0.883	0.154	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Beryllium, Total	0.185	J	mg/kg	0.441	0.029	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Cadmium, Total	0.282	J	mg/kg	0.883	0.087	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Calcium, Total	16900		mg/kg	8.83	3.09	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Chromium, Total	100		mg/kg	0.883	0.085	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Cobalt, Total	9.82		mg/kg	1.76	0.146	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Copper, Total	17.2		mg/kg	0.883	0.228	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Iron, Total	18000		mg/kg	4.41	0.797	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Lead, Total	18.7		mg/kg	4.41	0.236	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Magnesium, Total	8390		mg/kg	8.83	1.36	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Manganese, Total	520		mg/kg	0.883	0.140	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Mercury, Total	0.052	J	mg/kg	0.078	0.051	1	10/27/20 21:22	10/28/20 21:40	EPA 7471B	1,7471B	AL
Nickel, Total	50.5		mg/kg	2.21	0.214	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Potassium, Total	3460		mg/kg	221	12.7	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Selenium, Total	0.397	J	mg/kg	1.76	0.228	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.883	0.250	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Sodium, Total	486		mg/kg	176	2.78	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.76	0.278	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Vanadium, Total	28.1		mg/kg	0.883	0.179	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD
Zinc, Total	35.4		mg/kg	4.41	0.259	2	10/27/20 20:50	10/29/20 18:14	EPA 3050B	1,6010D	GD



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-05

Date Collected: 10/22/20 10:45

Client ID: S-5 (2-3)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	6440		mg/kg	9.18	2.48	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.59	0.349	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Arsenic, Total	3.72		mg/kg	0.918	0.191	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Barium, Total	409		mg/kg	0.918	0.160	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Beryllium, Total	0.275	J	mg/kg	0.459	0.030	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Cadmium, Total	0.275	J	mg/kg	0.918	0.090	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Calcium, Total	46700		mg/kg	9.18	3.21	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Chromium, Total	8.94		mg/kg	0.918	0.088	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Cobalt, Total	4.04		mg/kg	1.84	0.152	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Copper, Total	6.95		mg/kg	0.918	0.237	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Iron, Total	7120		mg/kg	4.59	0.829	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Lead, Total	323		mg/kg	4.59	0.246	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Magnesium, Total	7860		mg/kg	9.18	1.41	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Manganese, Total	158		mg/kg	0.918	0.146	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Mercury, Total	0.113		mg/kg	0.075	0.049	1	10/27/20 21:22	10/28/20 21:44	EPA 7471B	1,7471B	AL
Nickel, Total	6.85		mg/kg	2.30	0.222	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Potassium, Total	1160		mg/kg	230	13.2	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Selenium, Total	0.597	J	mg/kg	1.84	0.237	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.918	0.260	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Sodium, Total	902		mg/kg	184	2.89	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.84	0.289	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Vanadium, Total	23.5		mg/kg	0.918	0.186	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD
Zinc, Total	178		mg/kg	4.59	0.269	2	10/27/20 20:50	10/29/20 18:19	EPA 3050B	1,6010D	GD



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-06

Date Collected: 10/22/20 10:05

Client ID: S-6 (5-6)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4730		mg/kg	8.38	2.26	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.19	0.319	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Arsenic, Total	3.29		mg/kg	0.838	0.174	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Barium, Total	133		mg/kg	0.838	0.146	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Beryllium, Total	0.201	J	mg/kg	0.419	0.028	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Cadmium, Total	0.252	J	mg/kg	0.838	0.082	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Calcium, Total	44200		mg/kg	8.38	2.93	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Chromium, Total	6.74		mg/kg	0.838	0.081	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Cobalt, Total	2.85		mg/kg	1.68	0.139	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Copper, Total	6.40		mg/kg	0.838	0.216	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Iron, Total	5670		mg/kg	4.19	0.757	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Lead, Total	319		mg/kg	4.19	0.225	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Magnesium, Total	9690		mg/kg	8.38	1.29	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Manganese, Total	118		mg/kg	0.838	0.133	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.076	0.050	1	10/27/20 21:22	10/28/20 21:47	EPA 7471B	1,7471B	AL
Nickel, Total	6.01		mg/kg	2.10	0.203	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Potassium, Total	750		mg/kg	210	12.1	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Selenium, Total	0.335	J	mg/kg	1.68	0.216	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.838	0.237	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Sodium, Total	599		mg/kg	168	2.64	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.68	0.264	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Vanadium, Total	35.2		mg/kg	0.838	0.170	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV
Zinc, Total	75.4		mg/kg	4.19	0.246	2	10/27/20 20:50	10/29/20 18:23	EPA 3050B	1,6010D	BV



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-07

Date Collected: 10/22/20 11:45

Client ID: S-7 (5-6)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	9670		mg/kg	8.86	2.39	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.43	0.337	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Arsenic, Total	ND		mg/kg	0.886	0.184	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Barium, Total	93.4		mg/kg	0.886	0.154	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Beryllium, Total	0.044	J	mg/kg	0.443	0.029	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Cadmium, Total	0.239	J	mg/kg	0.886	0.087	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Calcium, Total	422		mg/kg	8.86	3.10	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Chromium, Total	35.7		mg/kg	0.886	0.085	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Cobalt, Total	13.1		mg/kg	1.77	0.147	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Copper, Total	17.5		mg/kg	0.886	0.229	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Iron, Total	17200		mg/kg	4.43	0.800	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Lead, Total	4.84		mg/kg	4.43	0.238	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Magnesium, Total	5410		mg/kg	8.86	1.36	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Manganese, Total	609		mg/kg	0.886	0.141	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.078	0.051	1	10/27/20 21:22	10/28/20 21:50	EPA 7471B	1,7471B	AL
Nickel, Total	29.7		mg/kg	2.22	0.214	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Potassium, Total	4450		mg/kg	222	12.8	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Selenium, Total	0.399	J	mg/kg	1.77	0.229	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.886	0.251	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Sodium, Total	399		mg/kg	177	2.79	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.77	0.279	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Vanadium, Total	25.9		mg/kg	0.886	0.180	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV
Zinc, Total	35.4		mg/kg	4.43	0.260	2	10/27/20 20:50	10/29/20 18:28	EPA 3050B	1,6010D	BV





Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-08

Date Collected: 10/22/20 12:10

Client ID: S-8 (8-9)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	8080		mg/kg	9.68	2.61	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.84	0.368	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Arsenic, Total	0.600	J	mg/kg	0.968	0.201	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Barium, Total	60.7		mg/kg	0.968	0.168	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.484	0.032	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Cadmium, Total	0.203	J	mg/kg	0.968	0.095	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Calcium, Total	3130		mg/kg	9.68	3.39	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Chromium, Total	13.2		mg/kg	0.968	0.093	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Cobalt, Total	7.95		mg/kg	1.94	0.161	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Copper, Total	14.4		mg/kg	0.968	0.250	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Iron, Total	13400		mg/kg	4.84	0.874	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Lead, Total	3.79	J	mg/kg	4.84	0.259	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Magnesium, Total	4110		mg/kg	9.68	1.49	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Manganese, Total	289		mg/kg	0.968	0.154	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.082	0.054	1	10/27/20 21:22	10/28/20 21:53	EPA 7471B	1,7471B	AL
Nickel, Total	14.8		mg/kg	2.42	0.234	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Potassium, Total	4550		mg/kg	242	13.9	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.94	0.250	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.968	0.274	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Sodium, Total	269		mg/kg	194	3.05	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.94	0.305	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Vanadium, Total	14.4		mg/kg	0.968	0.196	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV
Zinc, Total	31.8		mg/kg	4.84	0.284	2	10/27/20 20:50	10/29/20 18:33	EPA 3050B	1,6010D	BV





Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-09

Date Collected: 10/22/20 12:25

Client ID: S-9 (4-5)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	6500		mg/kg	8.43	2.28	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.22	0.320	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Arsenic, Total	0.253	J	mg/kg	0.843	0.175	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Barium, Total	49.5		mg/kg	0.843	0.147	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Beryllium, Total	0.076	J	mg/kg	0.422	0.028	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Cadmium, Total	0.126	J	mg/kg	0.843	0.083	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Calcium, Total	3530		mg/kg	8.43	2.95	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Chromium, Total	13.8		mg/kg	0.843	0.081	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Cobalt, Total	4.65		mg/kg	1.69	0.140	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Copper, Total	6.59		mg/kg	0.843	0.218	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Iron, Total	7860		mg/kg	4.22	0.761	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Lead, Total	8.16		mg/kg	4.22	0.226	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Magnesium, Total	2990		mg/kg	8.43	1.30	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Manganese, Total	188		mg/kg	0.843	0.134	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.075	0.049	1	10/27/20 21:22	10/28/20 21:57	EPA 7471B	1,7471B	AL
Nickel, Total	20.3		mg/kg	2.11	0.204	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Potassium, Total	2220		mg/kg	211	12.1	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.69	0.218	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.843	0.239	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Sodium, Total	232		mg/kg	169	2.66	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.69	0.266	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Vanadium, Total	11.6		mg/kg	0.843	0.171	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV
Zinc, Total	19.8		mg/kg	4.22	0.247	2	10/27/20 20:50	10/29/20 18:37	EPA 3050B	1,6010D	BV



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-10

Date Collected: 10/22/20 12:50

Client ID: S-10 (6-7)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4110		mg/kg	8.81	2.38	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.41	0.335	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Arsenic, Total	3.07		mg/kg	0.881	0.183	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Barium, Total	173		mg/kg	0.881	0.153	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Beryllium, Total	0.176	J	mg/kg	0.441	0.029	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Cadmium, Total	0.185	J	mg/kg	0.881	0.086	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Calcium, Total	37800		mg/kg	8.81	3.08	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Chromium, Total	5.69		mg/kg	0.881	0.085	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Cobalt, Total	2.58		mg/kg	1.76	0.146	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Copper, Total	6.01		mg/kg	0.881	0.227	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Iron, Total	7030		mg/kg	4.41	0.796	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Lead, Total	299		mg/kg	4.41	0.236	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Magnesium, Total	8550		mg/kg	8.81	1.36	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Manganese, Total	116		mg/kg	0.881	0.140	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.073	0.048	1	10/27/20 21:22	10/28/20 22:07	EPA 7471B	1,7471B	AL
Nickel, Total	5.26		mg/kg	2.20	0.213	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Potassium, Total	680		mg/kg	220	12.7	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Selenium, Total	0.273	J	mg/kg	1.76	0.227	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.881	0.249	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Sodium, Total	658		mg/kg	176	2.78	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.76	0.278	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Vanadium, Total	19.4		mg/kg	0.881	0.179	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV
Zinc, Total	89.9		mg/kg	4.41	0.258	2	10/27/20 20:50	10/29/20 18:42	EPA 3050B	1,6010D	BV



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-11

Date Collected: 10/22/20 13:05

Client ID: S-11 (2-3)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	3040		mg/kg	9.24	2.49	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.62	0.351	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Arsenic, Total	1.85		mg/kg	0.924	0.192	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Barium, Total	55.6		mg/kg	0.924	0.161	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Beryllium, Total	0.065	J	mg/kg	0.462	0.031	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Cadmium, Total	0.194	J	mg/kg	0.924	0.091	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Calcium, Total	49200		mg/kg	9.24	3.23	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Chromium, Total	8.97		mg/kg	0.924	0.089	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Cobalt, Total	3.86		mg/kg	1.85	0.153	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Copper, Total	17.3		mg/kg	0.924	0.238	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Iron, Total	7590		mg/kg	4.62	0.834	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Lead, Total	70.4		mg/kg	4.62	0.248	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Magnesium, Total	20600		mg/kg	9.24	1.42	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Manganese, Total	127		mg/kg	0.924	0.147	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.088	0.058	1	10/27/20 21:22	10/28/20 22:10	EPA 7471B	1,7471B	AL
Nickel, Total	7.64		mg/kg	2.31	0.224	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Potassium, Total	1030		mg/kg	231	13.3	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Selenium, Total	0.360	J	mg/kg	1.85	0.238	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.924	0.261	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Sodium, Total	505		mg/kg	185	2.91	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.85	0.291	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Vanadium, Total	17.1		mg/kg	0.924	0.188	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV
Zinc, Total	50.8		mg/kg	4.62	0.271	2	10/27/20 20:50	10/29/20 18:46	EPA 3050B	1,6010D	BV



Project Name: 327 HUGUENOT  
Project Number: 11571

Lab Number: L2046080  
Report Date: 11/04/20

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1426742-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Antimony, Total	ND		mg/kg	2.00	0.152	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Barium, Total	ND		mg/kg	0.400	0.070	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Calcium, Total	ND		mg/kg	4.00	1.40	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Chromium, Total	ND		mg/kg	0.400	0.038	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Cobalt, Total	ND		mg/kg	0.800	0.066	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Copper, Total	ND		mg/kg	0.400	0.103	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Iron, Total	ND		mg/kg	2.00	0.361	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Lead, Total	ND		mg/kg	2.00	0.107	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Magnesium, Total	ND		mg/kg	4.00	0.616	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Manganese, Total	ND		mg/kg	0.400	0.064	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Potassium, Total	ND		mg/kg	100	5.76	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Silver, Total	ND		mg/kg	0.400	0.113	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Sodium, Total	5.23	J	mg/kg	80.0	1.26	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Thallium, Total	ND		mg/kg	0.800	0.126	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Vanadium, Total	ND		mg/kg	0.400	0.081	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/27/20 20:50	10/29/20 12:31	1,6010D	GD

### Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-11 Batch: WG1426743-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/27/20 21:22	10/28/20 21:04	1,7471B	AL



**Project Name:** 327 HUGUENOT

**Lab Number:** L2046080

**Project Number:** 11571

**Report Date:** 11/04/20

## **Method Blank Analysis Batch Quality Control**

### **Prep Information**

---

Digestion Method: EPA 7471B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1426742-2 SRM Lot Number: D109-540								
Aluminum, Total	50		-		50-150	-		
Antimony, Total	119		-		19-250	-		
Arsenic, Total	86		-		70-130	-		
Barium, Total	79		-		75-125	-		
Beryllium, Total	89		-		75-125	-		
Cadmium, Total	88		-		75-125	-		
Calcium, Total	88		-		73-128	-		
Chromium, Total	82		-		70-130	-		
Cobalt, Total	92		-		75-125	-		
Copper, Total	80		-		75-125	-		
Iron, Total	67		-		35-165	-		
Lead, Total	82		-		72-128	-		
Magnesium, Total	70		-		62-138	-		
Manganese, Total	84		-		74-126	-		
Nickel, Total	88		-		70-130	-		
Potassium, Total	65		-		59-141	-		
Selenium, Total	87		-		68-132	-		
Silver, Total	78		-		68-131	-		
Sodium, Total	100		-		35-165	-		
Thallium, Total	85		-		68-131	-		
Vanadium, Total	77		-		59-141	-		

## Lab Control Sample Analysis

Batch Quality Control

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046080

Report Date: 11/04/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1426742-2 SRM Lot Number: D109-540					
Zinc, Total	82	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1426743-2 SRM Lot Number: D109-540					
Mercury, Total	81	-	60-140	-	

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1426742-3 WG1426742-4 QC Sample: L2046130-01 Client ID: MS Sample												
Aluminum, Total	4450	175	4460	6	Q	4380	0	Q	75-125	2		20
Aluminum, Total	4450	175	4280	0	Q	4240	0	Q	75-125	1		20
Antimony, Total	ND	43.8	34.7	79		35.0	80		75-125	1		20
Arsenic, Total	1.47	10.5	11.5	96		11.2	93		75-125	3		20
Barium, Total	32.6	175	183	86		180	84		75-125	2		20
Beryllium, Total	0.238J	4.38	4.24	97		4.26	98		75-125	0		20
Cadmium, Total	0.353J	4.46	4.54	102		4.48	100		75-125	1		20
Calcium, Total	802	875	1680	100		1500	80		75-125	11		20
Chromium, Total	14.1	17.5	30.3	92		29.8	90		75-125	2		20
Cobalt, Total	6.73	43.8	44.7	87		43.6	84		75-125	2		20
Copper, Total	10.2	21.9	30.2	91		30.5	93		75-125	1		20
Iron, Total	19100	87.5	18700	0	Q	20100	1140	Q	75-125	7		20
Lead, Total	9.59	44.6	47.9	86		46.3	82		75-125	3		20
Magnesium, Total	1780	875	2300	59	Q	2250	54	Q	75-125	2		20
Manganese, Total	734	43.8	765	71	Q	779	103		75-125	2		20
Nickel, Total	12.3	43.8	49.8	86		48.9	84		75-125	2		20
Potassium, Total	1310	875	1600	33	Q	1500	22	Q	75-125	6		20
Selenium, Total	0.283J	10.5	9.77	93		9.40	90		75-125	4		20
Silver, Total	ND	26.2	24.0	91		23.5	90		75-125	2		20
Sodium, Total	91.2J	875	947	108		930	106		75-125	2		20
Thallium, Total	0.715J	10.5	9.96	95		9.83	94		75-125	1		20



### Matrix Spike Analysis Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11    QC Batch ID: WG1426742-3    WG1426742-4    QC Sample: L2046130-01    Client ID: MS Sample									
Vanadium, Total	22.8	43.8	59.8	84	59.3	84	75-125	1	20
Zinc, Total	27.8	43.8	65.9	87	65.6	86	75-125	0	20
Total Metals - Mansfield Lab Associated sample(s): 01-11    QC Batch ID: WG1426743-3    WG1426743-4    QC Sample: L2046130-01    Client ID: MS Sample									
Mercury, Total	ND	0.164	0.149	91	0.143	91	80-120	4	20

# **INORGANICS & MISCELLANEOUS**

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-01

Date Collected: 10/22/20 08:20

Client ID: S-1 (2-3)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	10/24/20 10:53	121,2540G	RI
Cyanide, Total	0.50	J	mg/kg	1.0	0.22	1	10/27/20 13:00	10/27/20 15:27	1,9010C/9012B	CR



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-02

Date Collected: 10/22/20 08:40

Client ID: S-2 (3-4)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	10/24/20 10:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	10/27/20 13:00	10/27/20 15:30	1,9010C/9012B	CR



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-03

Date Collected: 10/22/20 09:10

Client ID: S-3 (1-2)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.5		%	0.100	NA	1	-	10/24/20 10:53	121,2540G	RI
Cyanide, Total	0.38	J	mg/kg	1.2	0.25	1	10/27/20 13:00	10/27/20 15:31	1,9010C/9012B	CR



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-04

Date Collected: 10/22/20 09:45

Client ID: S-4 (4-5)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	10/24/20 10:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	10/27/20 13:00	10/27/20 15:32	1,9010C/9012B	CR



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-05

Date Collected: 10/22/20 10:45

Client ID: S-5 (2-3)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3		%	0.100	NA	1	-	10/24/20 10:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	10/28/20 14:20	10/29/20 10:04	1,9010C/9012B	CR



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-06

Date Collected: 10/22/20 10:05

Client ID: S-6 (5-6)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	10/24/20 10:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	10/27/20 13:00	10/27/20 15:35	1,9010C/9012B	CR





Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-07

Date Collected: 10/22/20 11:45

Client ID: S-7 (5-6)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.3		%	0.100	NA	1	-	10/24/20 10:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	10/27/20 13:00	10/27/20 15:36	1,9010C/9012B	CR



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-08

Date Collected: 10/22/20 12:10

Client ID: S-8 (8-9)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.5		%	0.100	NA	1	-	10/24/20 10:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.24	1	10/27/20 13:00	10/27/20 15:37	1,9010C/9012B	CR



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-09

Date Collected: 10/22/20 12:25

Client ID: S-9 (4-5)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	10/24/20 10:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	10/27/20 13:00	10/27/20 15:42	1,9010C/9012B	CR



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-10

Date Collected: 10/22/20 12:50

Client ID: S-10 (6-7)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.5		%	0.100	NA	1	-	10/24/20 10:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	10/27/20 13:00	10/27/20 15:43	1,9010C/9012B	CR



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

## SAMPLE RESULTS

Lab ID: L2046080-11

Date Collected: 10/22/20 13:05

Client ID: S-11 (2-3)

Date Received: 10/23/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	10/24/20 10:53	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	10/27/20 13:00	10/27/20 15:44	1,9010C/9012B	CR



Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04,06-09 Batch: WG1426989-1									
Cyanide, Total	ND	mg/kg	0.94	0.20	1	10/27/20 13:00	10/27/20 15:18	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 10-11 Batch: WG1426991-1									
Cyanide, Total	ND	mg/kg	0.94	0.20	1	10/27/20 13:00	10/27/20 15:57	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1427621-1									
Cyanide, Total	ND	mg/kg	0.91	0.19	1	10/28/20 14:20	10/29/20 10:46	1,9010C/9012B	CR

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046080

Report Date: 11/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04,06-09 Batch: WG1426989-2 WG1426989-3								
Cyanide, Total	67	Q	60	Q	80-120	3		35
General Chemistry - Westborough Lab Associated sample(s): 10-11 Batch: WG1426991-2 WG1426991-3								
Cyanide, Total	66	Q	61	Q	80-120	5		35
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1427621-2 WG1427621-3								
Cyanide, Total	68	Q	73	Q	80-120	2		35

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04,06-09 QC Batch ID: WG1426989-4 WG1426989-5 QC Sample: L2046080-08 Client ID: S-8 (8-9)												
Cyanide, Total	ND	12	10	87		9.8	87		75-125	2		35
General Chemistry - Westborough Lab Associated sample(s): 10-11 QC Batch ID: WG1426991-4 WG1426991-5 QC Sample: L2046112-05 Client ID: MS Sample												
Cyanide, Total	ND	11	10	90		9.2	90		75-125	8		35
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1427621-4 WG1427621-5 QC Sample: L2046300-03 Client ID: MS Sample												
Cyanide, Total	ND	22	18	80		18	81		75-125	0		35



## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046080

Report Date: 11/04/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1426095-1 QC Sample: L2045674-01 Client ID: DUP Sample						
Solids, Total	69.7	70.8	%	2		20

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

Cooler	Custody Seal
A	Absent
B	Absent

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2046080-01A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-01B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-01C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-01D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2046080-01D1	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)
L2046080-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),MG-TI(180),FE-TI(180),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2046080-01F	Plastic 8oz unpreserved	B	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046080-01G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2046080-01X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-01Y	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-01Z	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-02A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-02B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-02C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-02D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2046080-02D1	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)
L2046080-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)

Project Name: 327 HUGUENOT

Lab Number: L2046080

Project Number: 11571

Report Date: 11/04/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2046080-02F	Plastic 8oz unpreserved	B	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046080-02G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2046080-02X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-02Y	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-02Z	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-03A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-03B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-03C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-03D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2046080-03D1	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)
L2046080-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2046080-03F	Plastic 8oz unpreserved	B	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046080-03G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2046080-03X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-03Y	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-03Z	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-04A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-04B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-04C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-04D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2046080-04D1	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)
L2046080-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2046080-04F	Plastic 8oz unpreserved	B	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Serial\_No:**11042020:09  
**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2046080-04G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2046080-04X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-04Y	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-04Z	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-05A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-05B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-05C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-05D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2046080-05D1	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)
L2046080-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2046080-05F	Plastic 8oz unpreserved	B	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046080-05G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2046080-05X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-05Y	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-05Z	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-06A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-06B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-06C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-06D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2046080-06D1	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)
L2046080-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2046080-06F	Plastic 8oz unpreserved	B	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Serial\_No:** 11042020:09  
**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2046080-06G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2046080-06X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-06Y	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-06Z	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-07A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-07B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-07C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-07D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2046080-07D1	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)
L2046080-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2046080-07F	Plastic 8oz unpreserved	B	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046080-07G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2046080-07X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-07Y	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-07Z	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-08A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-08B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-08C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-08D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2046080-08D1	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)
L2046080-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2046080-08F	Plastic 8oz unpreserved	B	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Serial\_No:** 11042020:09  
**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2046080-08G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2046080-08X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-08Y	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-08Z	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-09A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-09B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-09C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-09D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2046080-09D1	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)
L2046080-09E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2046080-09F	Plastic 8oz unpreserved	B	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046080-09G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2046080-09X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-09Y	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-09Z	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-10A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-10B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-10C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-10D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2046080-10D1	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)
L2046080-10E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2046080-10F	Plastic 8oz unpreserved	B	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Serial\_No:**11042020:09  
**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2046080-10G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2046080-10X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-10Y	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-10Z	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-11A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-11B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-11C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-11D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2046080-11D1	Plastic 2oz unpreserved for TS	B	NA		2.8	Y	Absent		TS(7)
L2046080-11E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2046080-11F	Plastic 8oz unpreserved	B	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046080-11G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2046080-11X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2046080-11Y	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)
L2046080-11Z	Vial Water preserved split	A	NA		2.8	Y	Absent	24-OCT-20 05:28	NYTCL-8260HLW(14)

\*Values in parentheses indicate holding time in days



Project Name: 327 HUGUENOT

Project Number: 11571

Serial\_No:11042020:09  
Lab Number: L2046080

Report Date: 11/04/20

## PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
<b>PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)</b>		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
<b>PERFLUOROALKYL SULFONIC ACIDS (PFSAs)</b>		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
<b>FLUOROTELOMERS</b>		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
<b>PERFLUOROALKANE SULFONAMIDES (FASAs)</b>		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
<b>PERFLUOROALKANE SULFONYL SUBSTANCES</b>		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
<b>PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS</b>		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
<b>CHLORO-PERFLUOROALKYL SULFONIC ACIDS</b>		
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
<b>PERFLUOROETHER SULFONIC ACIDS (PFESAs)</b>		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEEESA	113507-82-7
<b>PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)</b>		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

#### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046080  
**Report Date:** 11/04/20

**Data Qualifiers**

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** 327 HUGUENOT**Lab Number:** L2046080**Project Number:** 11571**Report Date:** 11/04/20

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**EPA TO-12** Non-methane organics

**EPA 3C** Fixed gases

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

**EPA 522.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1** Hg.

**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.





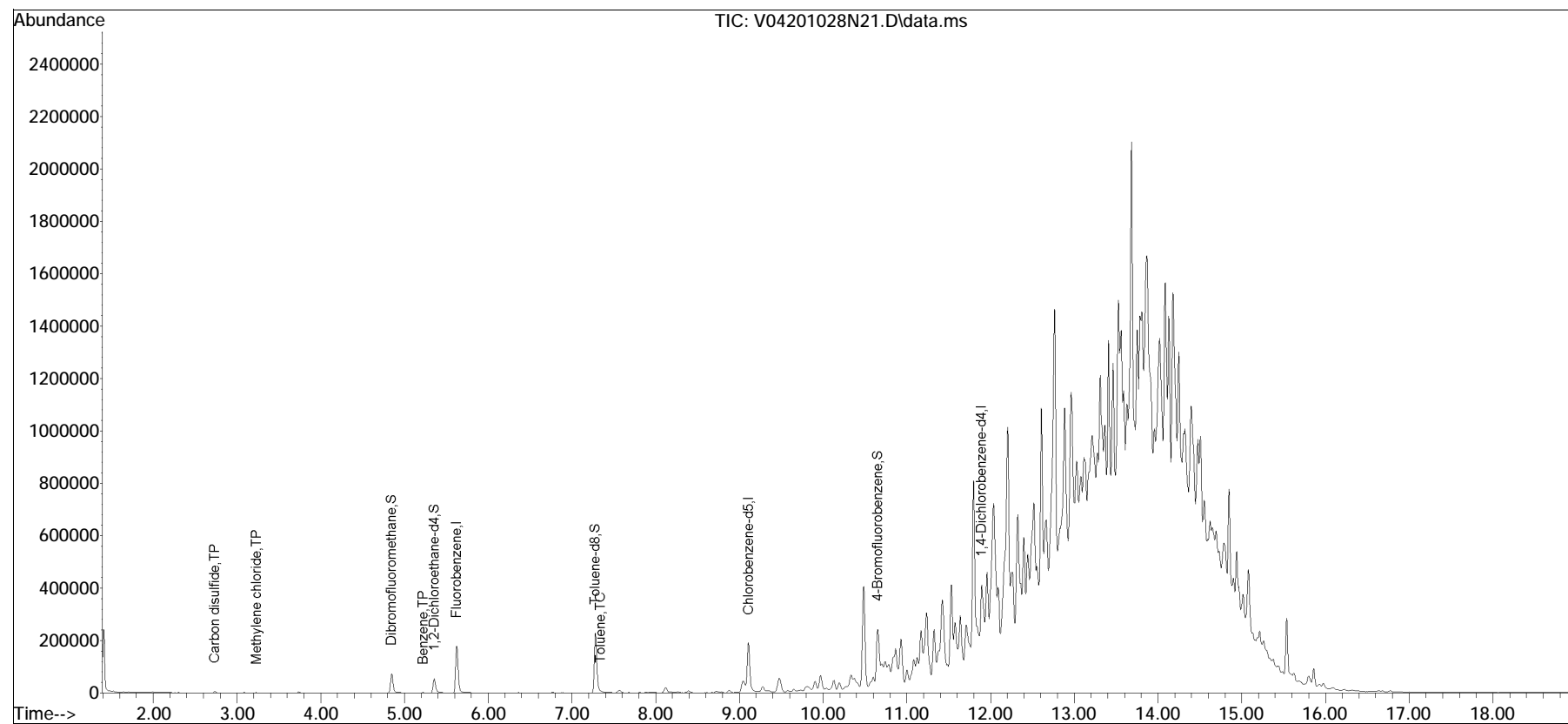


## Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA104\2020\201028N\  
Data File : V04201028N21.D  
Acq On : 29 Oct 2020 1:31 am  
Operator : VOA104:JC  
Sample : 12046080-08,31,5.73,5,,y  
Misc : WG1427756,ICAL16845  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 29 06:41:51 2020  
Quant Method : I:\VOLATILES\VOA104\2020\201028N\V104\_200602B\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Tue Jun 02 13:53:50 2020  
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox01028N\V04201028N01.D•







## ANALYTICAL REPORT

Lab Number:	L2046625
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Jesse Mausner
Phone:	(973) 808-9050
Project Name:	327 HUGUENOT
Project Number:	11571
Report Date:	11/03/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

---

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



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2046625-01	GW-1	WATER	NEW ROCHELLE, NY	10/26/20 11:30	10/27/20
L2046625-02	GW-2	WATER	NEW ROCHELLE, NY	10/26/20 12:50	10/27/20
L2046625-03	GW-3	WATER	NEW ROCHELLE, NY	10/26/20 14:00	10/27/20
L2046625-04	FB	FIELD BLANK	NEW ROCHELLE, NY	10/26/20 12:00	10/27/20

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

### Case Narrative

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

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

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

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

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

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

---

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

### Case Narrative (continued)

#### Report Submission

November 03, 2020: This final report includes the results of all requested analyses.

October 30, 2020: This is a preliminary report.

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

#### Volatile Organics

L2046625-03: The pH of the sample was greater than two; however, the sample was analyzed within the method required holding time.

#### Perfluorinated Alkyl Acids by Isotope Dilution

L2046625-01, -02, WG1427914-4 and WG1427914-5: The MeOH fraction of the extraction is reported for the following compounds: Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the Surrogates (Extracted Internal Standards).

L2046625-03: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

#### Total Metals

L2046625-03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the high concentrations of target elements.

#### Dissolved Metals

The WG1427727-3 MS recoveries for calcium (0%), iron (0%), magnesium (60%), manganese (0%) and sodium (0%), performed on L2046625-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

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

Authorized Signature:  Tiffani Morrissey

Title: Technical Director/Representative

Date: 11/03/20

# ORGANICS

# VOLATILES

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-01  
 Client ID: GW-1  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 11:30  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 10/29/20 12:29  
 Analyst: JMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-01  
 Client ID: GW-1  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 11:30  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1



Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-01  
 Client ID: GW-1  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 11:30  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-02  
 Client ID: GW-2  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:50  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 10/29/20 12:52  
 Analyst: JMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-02  
 Client ID: GW-2  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:50  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.9	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-02  
 Client ID: GW-2  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:50  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	93		70-130

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-03  
 Client ID: GW-3  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 14:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 10/29/20 13:16  
 Analyst: JMT

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-03  
 Client ID: GW-3  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 14:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	2.4	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-03  
 Client ID: GW-3  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 14:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1
-------------------------------------	----	------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	93		70-130

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/29/20 08:37  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1428105-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/29/20 08:37  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1428105-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/29/20 08:37  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1428105-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 10/29/20 08:37  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1428105-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1428105-3 WG1428105-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	98		100		70-130	2		20
Carbon tetrachloride	99		100		63-132	1		20
1,2-Dichloropropane	100		110		70-130	10		20
Dibromochloromethane	89		90		63-130	1		20
1,1,2-Trichloroethane	98		100		70-130	2		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	97		100		75-130	3		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	97		100		70-130	3		20
1,1,1-Trichloroethane	97		100		67-130	3		20
Bromodichloromethane	96		100		67-130	4		20
trans-1,3-Dichloropropene	86		84		70-130	2		20
cis-1,3-Dichloropropene	98		98		70-130	0		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	91		94		54-136	3		20
1,1,1,2-Tetrachloroethane	95		100		67-130	5		20
Benzene	100		110		70-130	10		20
Toluene	100		100		70-130	0		20
Ethylbenzene	99		100		70-130	1		20
Chloromethane	110		120		64-130	9		20
Bromomethane	90		90		39-139	0		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1428105-3 WG1428105-4								
Vinyl chloride	130		130		55-140	0		20
Chloroethane	130		130		55-138	0		20
1,1-Dichloroethene	90		94		61-145	4		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	95		98		70-130	3		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	90		76		63-130	17		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Dibromomethane	97		100		70-130	3		20
1,2,3-Trichloropropane	96		100		64-130	4		20
Acrylonitrile	94		95		70-130	1		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	160	Q	170	Q	36-147	6		20
Acetone	91		100		58-148	9		20
Carbon disulfide	100		110		51-130	10		20
2-Butanone	84		87		63-138	4		20
Vinyl acetate	96		96		70-130	0		20
4-Methyl-2-pentanone	91		97		59-130	6		20
2-Hexanone	90		95		57-130	5		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1428105-3 WG1428105-4								
Bromochloromethane	97		100		70-130	3		20
2,2-Dichloropropane	110		100		63-133	10		20
1,2-Dibromoethane	96		99		70-130	3		20
1,3-Dichloropropane	140	Q	140	Q	70-130	0		20
1,1,1,2-Tetrachloroethane	96		99		64-130	3		20
Bromobenzene	100		110		70-130	10		20
n-Butylbenzene	94		94		53-136	0		20
sec-Butylbenzene	99		100		70-130	1		20
tert-Butylbenzene	97		100		70-130	3		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	89		93		41-144	4		20
Hexachlorobutadiene	100		100		63-130	0		20
Isopropylbenzene	100		110		70-130	10		20
p-Isopropyltoluene	95		96		70-130	1		20
Naphthalene	77		78		70-130	1		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	85		87		70-130	2		20
1,2,4-Trichlorobenzene	92		92		70-130	0		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	76		74		56-162	3		20
p-Diethylbenzene	92		93		70-130	1		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046625

Report Date: 11/03/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1428105-3 WG1428105-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	93		90		70-130	3		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	57	Q	46	Q	70-130	21	Q	20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	97		97		70-130
Toluene-d8	103		100		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	97		98		70-130

# SEMIVOLATILES



**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-01  
 Client ID: GW-1  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 11:30  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 10/29/20 05:34  
 Analyst: JG

Extraction Method: EPA 3510C  
 Extraction Date: 10/28/20 11:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.6	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	0.85	J	ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-01  
 Client ID: GW-1  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 11:30  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-01

Date Collected: 10/26/20 11:30

Client ID: GW-1

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

## Tentatively Identified Compounds

Total TIC Compounds	41.6	J	ug/l			1
Unknown	2.33	J	ug/l			1
Unknown	2.33	J	ug/l			1
Unknown	5.09	J	ug/l			1
Unknown	1.74	J	ug/l			1
Unknown Organic Acid	6.11	J	ug/l			1
Unknown	5.27	J	ug/l			1
Unknown Alcohol	3.31	J	ug/l			1
Unknown	3.74	J	ug/l			1
Unknown	1.85	J	ug/l			1
Unknown	1.96	J	ug/l			1
Unknown	2.11	J	ug/l			1
Unknown Alkene	2.36	J	ug/l			1
Unknown	3.38	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	68		10-120
Nitrobenzene-d5	109		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	107		41-149

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-01  
 Client ID: GW-1  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 11:30  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 10/29/20 12:33  
 Analyst: DV

Extraction Method: EPA 3510C  
 Extraction Date: 10/28/20 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	0.04	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	1.6		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.06	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.80		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.86		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	1.1		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.30		ug/l	0.10	0.01	1
Chrysene	0.90		ug/l	0.10	0.01	1
Acenaphthylene	0.06	J	ug/l	0.10	0.01	1
Anthracene	0.10		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.66		ug/l	0.10	0.01	1
Fluorene	0.05	J	ug/l	0.10	0.01	1
Phenanthrene	0.75		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.13		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.63		ug/l	0.10	0.01	1
Pyrene	2.0		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.07	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-01

Date Collected: 10/26/20 11:30

Client ID: GW-1

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	109		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	149		41-149

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-01  
 Client ID: GW-1  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 11:30  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 10/30/20 08:54  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 10/29/20 04:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			56		15-110	

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-01  
 Client ID: GW-1  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 11:30  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/30/20 22:30  
 Analyst: RS

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	15.6		ng/l	1.90	0.388	1
Perfluoropentanoic Acid (PFPeA)	36.0		ng/l	1.90	0.376	1
Perfluorobutanesulfonic Acid (PFBS)	8.78		ng/l	1.90	0.226	1
Perfluorohexanoic Acid (PFHxA)	30.4		ng/l	1.90	0.312	1
Perfluoroheptanoic Acid (PFHpA)	15.4		ng/l	1.90	0.214	1
Perfluorohexanesulfonic Acid (PFHxS)	5.66		ng/l	1.90	0.357	1
Perfluorooctanoic Acid (PFOA)	37.0		ng/l	1.90	0.224	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.90	1.27	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.90	0.654	1
Perfluorononanoic Acid (PFNA)	10.0		ng/l	1.90	0.296	1
Perfluorooctanesulfonic Acid (PFOS)	20.7		ng/l	1.90	0.479	1
Perfluorodecanoic Acid (PFDA)	0.548	J	ng/l	1.90	0.289	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.90	1.15	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.90	0.616	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.90	0.247	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.90	0.932	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.90	0.764	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.90	0.354	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.90	0.311	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.90	0.236	1
PFOA/PFOS, Total	57.7		ng/l	1.90	0.224	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-01

Date Collected: 10/26/20 11:30

Client ID: GW-1

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	102		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	82		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	65		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	92		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	110		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	121		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	135		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	71		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	122		40-144
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	103		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	117		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	112		33-143



**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-01  
 Client ID: GW-1  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 11:30  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 11/03/20 11:34  
 Analyst: PB

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.90	0.551	1
<b>Surrogate (Extracted Internal Standard)</b>			<b>% Recovery</b>	<b>Qualifier</b>	<b>Acceptance Criteria</b>	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			75		1-87	

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-02  
 Client ID: GW-2  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:50  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 10/29/20 06:21  
 Analyst: JG

Extraction Method: EPA 3510C  
 Extraction Date: 10/28/20 11:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.8	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	0.72	J	ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-02  
 Client ID: GW-2  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:50  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

## Tentatively Identified Compounds

Total TIC Compounds	90.3	J	ug/l			1
Unknown	23.1	J	ug/l			1
Unknown	3.64	J	ug/l			1
Unknown	3.67	J	ug/l			1
Unknown Organic Acid	10.4	J	ug/l			1
Unknown	4.11	J	ug/l			1
Unknown	4.22	J	ug/l			1
Unknown	29.0	J	ug/l			1
Unknown Alkane	4.18	J	ug/l			1
Unknown PAH	4.25	J	ug/l			1
Unknown Alkane	3.71	J	ug/l			1

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-02

Date Collected: 10/26/20 12:50

Client ID: GW-2

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	67		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	103		41-149

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-02  
 Client ID: GW-2  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:50  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 10/29/20 12:54  
 Analyst: DV

Extraction Method: EPA 3510C  
 Extraction Date: 10/28/20 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	0.10	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	5.4		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.19		ug/l	0.10	0.05	1
Benzo(a)anthracene	4.9		ug/l	0.10	0.02	1
Benzo(a)pyrene	5.0		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	5.7		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	1.7		ug/l	0.10	0.01	1
Chrysene	5.9		ug/l	0.10	0.01	1
Acenaphthylene	0.37		ug/l	0.10	0.01	1
Anthracene	0.43		ug/l	0.10	0.01	1
Benzo(ghi)perylene	4.2		ug/l	0.10	0.01	1
Fluorene	0.15		ug/l	0.10	0.01	1
Phenanthrene	3.8		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.98		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	3.6		ug/l	0.10	0.01	1
Pyrene	8.1		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.12		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-02

Date Collected: 10/26/20 12:50

Client ID: GW-2

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	65		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	99		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	103		41-149

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-02  
 Client ID: GW-2  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:50  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 10/30/20 09:17  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 10/29/20 04:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	150	33.9	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			58		15-110	

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-02  
 Client ID: GW-2  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:50  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/30/20 23:03  
 Analyst: RS

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	8.62		ng/l	2.20	0.449	1
Perfluoropentanoic Acid (PFPeA)	10.7		ng/l	2.20	0.436	1
Perfluorobutanesulfonic Acid (PFBS)	8.72		ng/l	2.20	0.262	1
Perfluorohexanoic Acid (PFHxA)	8.17		ng/l	2.20	0.361	1
Perfluoroheptanoic Acid (PFHpA)	5.10		ng/l	2.20	0.248	1
Perfluorohexanesulfonic Acid (PFHxS)	1.95	J	ng/l	2.20	0.414	1
Perfluorooctanoic Acid (PFOA)	12.1		ng/l	2.20	0.260	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.20	1.47	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.20	0.758	1
Perfluorononanoic Acid (PFNA)	2.51		ng/l	2.20	0.344	1
Perfluorooctanesulfonic Acid (PFOS)	35.2		ng/l	2.20	0.555	1
Perfluorodecanoic Acid (PFDA)	3.02		ng/l	2.20	0.335	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.20	1.33	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.20	0.714	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.20	0.286	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.20	1.08	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.20	0.885	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.20	0.410	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.20	0.360	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.20	0.273	1
PFOA/PFOS, Total	47.3		ng/l	2.20	0.260	1



Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-02  
 Client ID: GW-2  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:50  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	88		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	61		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	80		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	111		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	108		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	147		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	53		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	114		40-144
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	67		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	105		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	99		33-143

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-02  
 Client ID: GW-2  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:50  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 11/03/20 11:47  
 Analyst: PB

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.20	0.639	1
<b>Surrogate (Extracted Internal Standard)</b>			<b>% Recovery</b>	<b>Qualifier</b>	<b>Acceptance Criteria</b>	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			66		1-87	

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-03  
 Client ID: GW-3  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 14:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 10/29/20 05:58  
 Analyst: JG

Extraction Method: EPA 3510C  
 Extraction Date: 10/28/20 11:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.7	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	0.57	J	ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-03  
 Client ID: GW-3  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 14:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-03  
 Client ID: GW-3  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 14:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

## Tentatively Identified Compounds

Total TIC Compounds	78.6	J	ug/l			1
Unknown	4.18	J	ug/l			1
Unknown	2.54	J	ug/l			1
Unknown	2.40	J	ug/l			1
Unknown	2.58	J	ug/l			1
Unknown	3.78	J	ug/l			1
Unknown Alcohol	2.76	J	ug/l			1
Unknown	2.58	J	ug/l			1
Unknown Organic Acid	9.82	J	ug/l			1
Unknown Alkane	4.76	J	ug/l			1
Unknown Organic Acid	2.76	J	ug/l			1
Cyclic Octaatomic Sulfur	4.54	NJ	ug/l			1
Unknown	13.0	J	ug/l			1
Unknown Alkane	2.87	J	ug/l			1
Unknown	15.1	J	ug/l			1
Unknown Alkane	4.94	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		21-120
Phenol-d6	71		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	100		41-149

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-03  
 Client ID: GW-3  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 14:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 10/29/20 13:15  
 Analyst: DV

Extraction Method: EPA 3510C  
 Extraction Date: 10/28/20 11:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.74		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.54		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.54		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.58		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.19		ug/l	0.10	0.01	1
Chrysene	0.63		ug/l	0.10	0.01	1
Acenaphthylene	0.03	J	ug/l	0.10	0.01	1
Anthracene	0.07	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.40		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.41		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.10	J	ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.38		ug/l	0.10	0.01	1
Pyrene	1.0		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

**SAMPLE RESULTS**

Lab ID: L2046625-03

Date Collected: 10/26/20 14:00

Client ID: GW-3

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	<b>124</b>	Q	23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	101		10-120
4-Terphenyl-d14	108		41-149

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-03  
 Client ID: GW-3  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 14:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 10/30/20 09:39  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 10/29/20 04:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	150	33.9	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			59		15-110	



Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-03  
 Client ID: GW-3  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 14:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/30/20 23:36  
 Analyst: RS

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	11.4		ng/l	1.91	0.389	1
Perfluoropentanoic Acid (PFPeA)	15.0		ng/l	1.91	0.378	1
Perfluorobutanesulfonic Acid (PFBS)	10.1		ng/l	1.91	0.227	1
Perfluorohexanoic Acid (PFHxA)	10.2		ng/l	1.91	0.313	1
Perfluoroheptanoic Acid (PFHpA)	11.0		ng/l	1.91	0.215	1
Perfluorohexanesulfonic Acid (PFHxS)	4.72		ng/l	1.91	0.359	1
Perfluorooctanoic Acid (PFOA)	21.6		ng/l	1.91	0.225	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.91	1.27	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.91	0.656	1
Perfluorononanoic Acid (PFNA)	2.17		ng/l	1.91	0.298	1
Perfluorooctanesulfonic Acid (PFOS)	46.4		ng/l	1.91	0.481	1
Perfluorodecanoic Acid (PFDA)	0.706	J	ng/l	1.91	0.290	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.91	1.16	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.91	0.618	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.91	0.248	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.91	0.935	1
Perfluorooctanesulfonamide (FOSA)	0.981	JF	ng/l	1.91	0.553	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	5.93		ng/l	1.91	0.767	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.91	0.355	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.91	0.312	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.91	0.237	1
PFOA/PFOS, Total	68.0		ng/l	1.91	0.225	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-03  
 Client ID: GW-3  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 14:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	72		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	70		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	47		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	72		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	86		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	133		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	131		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	180	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	60		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	121		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	17		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	101		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	109		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	106		33-143

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-04  
 Client ID: FB  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Field Blank  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 10/30/20 23:53  
 Analyst: RS

Extraction Method: ALPHA 23528  
 Extraction Date: 10/29/20 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.84	0.375	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.84	0.364	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.84	0.219	1
Perfluorohexanoic Acid (PFHxA)	0.331	JF	ng/l	1.84	0.301	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.84	0.207	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.84	0.346	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.84	0.217	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.84	1.22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.84	0.632	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.84	0.287	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.84	0.463	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.84	0.279	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.84	1.11	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.84	0.596	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.84	0.239	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.84	0.901	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.84	0.533	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.84	0.739	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.84	0.342	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.84	0.301	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.84	0.228	1
PFOA/PFOS, Total	ND		ng/l	1.84	0.217	1

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-04  
 Client ID: FB  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	105		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	143		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	111		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	109		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	66		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	121		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	112		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	127		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	30		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	93		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	125		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	118		33-143

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 10/28/20 23:24  
Analyst: JG

Extraction Method: EPA 3510C  
Extraction Date: 10/28/20 07:52

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1427424-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 10/28/20 23:24  
Analyst: JG

Extraction Method: EPA 3510C  
Extraction Date: 10/28/20 07:52

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1427424-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 10/28/20 23:24  
Analyst: JG

Extraction Method: EPA 3510C  
Extraction Date: 10/28/20 07:52

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1427424-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Tentatively Identified Compounds

Total TIC Compounds	3.41	J	ug/l
Unknown	1.45	J	ug/l
Unknown	1.96	J	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	75		41-149

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 10/29/20 08:21  
Analyst: DV

Extraction Method: EPA 3510C  
Extraction Date: 10/28/20 07:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1427426-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 10/29/20 08:21  
Analyst: DV

Extraction Method: EPA 3510C  
Extraction Date: 10/28/20 07:54

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-03 Batch: WG1427426-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	106		41-149

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 10/30/20 07:50  
Analyst: PS

Extraction Method: EPA 3510C  
Extraction Date: 10/29/20 04:30

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-03 Batch: WG1427840-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	71		15-110

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 10/30/20 21:40  
Analyst: RS

Extraction Method: ALPHA 23528  
Extraction Date: 10/29/20 10:26

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04 Batch: WG1427914-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	0.400	J	ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 10/30/20 21:40  
Analyst: RS

Extraction Method: ALPHA 23528  
Extraction Date: 10/29/20 10:26

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04 Batch: WG1427914-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	137		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	112		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	127		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	100		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	120		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	100		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	129		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	37		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	90		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	124		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	124		33-143

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 11/03/20 11:16  
Analyst: PB

Extraction Method: ALPHA 23528  
Extraction Date: 10/29/20 10:26

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04 Batch: WG1427914-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	73		1-87

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1427424-2 WG1427424-3								
Acenaphthene	68		76		37-111	11		30
1,2,4-Trichlorobenzene	57		71		39-98	22		30
Hexachlorobenzene	68		72		40-140	6		30
Bis(2-chloroethyl)ether	59		74		40-140	23		30
2-Chloronaphthalene	62		73		40-140	16		30
1,2-Dichlorobenzene	57		70		40-140	20		30
1,3-Dichlorobenzene	55		69		40-140	23		30
1,4-Dichlorobenzene	57		71		36-97	22		30
3,3'-Dichlorobenzidine	64		64		40-140	0		30
2,4-Dinitrotoluene	67		71		48-143	6		30
2,6-Dinitrotoluene	65		69		40-140	6		30
Fluoranthene	76		79		40-140	4		30
4-Chlorophenyl phenyl ether	69		74		40-140	7		30
4-Bromophenyl phenyl ether	70		72		40-140	3		30
Bis(2-chloroisopropyl)ether	58		73		40-140	23		30
Bis(2-chloroethoxy)methane	60		71		40-140	17		30
Hexachlorobutadiene	55		68		40-140	21		30
Hexachlorocyclopentadiene	50		64		40-140	25		30
Hexachloroethane	52		67		40-140	25		30
Isophorone	60		73		40-140	20		30
Naphthalene	60		73		40-140	20		30
Nitrobenzene	58		74		40-140	24		30
NDPA/DPA	74		77		40-140	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1427424-2 WG1427424-3								
n-Nitrosodi-n-propylamine	62		78		29-132	23		30
Bis(2-ethylhexyl)phthalate	62		63		40-140	2		30
Butyl benzyl phthalate	68		69		40-140	1		30
Di-n-butylphthalate	62		68		40-140	9		30
Di-n-octylphthalate	64		67		40-140	5		30
Diethyl phthalate	72		74		40-140	3		30
Dimethyl phthalate	68		72		40-140	6		30
Benzo(a)anthracene	74		78		40-140	5		30
Benzo(a)pyrene	81		82		40-140	1		30
Benzo(b)fluoranthene	77		83		40-140	8		30
Benzo(k)fluoranthene	84		83		40-140	1		30
Chrysene	79		82		40-140	4		30
Acenaphthylene	65		73		45-123	12		30
Anthracene	76		77		40-140	1		30
Benzo(ghi)perylene	83		83		40-140	0		30
Fluorene	72		76		40-140	5		30
Phenanthrene	74		75		40-140	1		30
Dibenzo(a,h)anthracene	80		80		40-140	0		30
Indeno(1,2,3-cd)pyrene	80		81		40-140	1		30
Pyrene	74		76		26-127	3		30
Biphenyl	65		75		40-140	14		30
4-Chloroaniline	56		49		40-140	13		30
2-Nitroaniline	62		68		52-143	9		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1427424-2 WG1427424-3								
3-Nitroaniline	64		68		25-145	6		30
4-Nitroaniline	63		66		51-143	5		30
Dibenzofuran	70		77		40-140	10		30
2-Methylnaphthalene	61		73		40-140	18		30
1,2,4,5-Tetrachlorobenzene	60		72		2-134	18		30
Acetophenone	60		75		39-129	22		30
2,4,6-Trichlorophenol	65		72		30-130	10		30
p-Chloro-m-cresol	70		73		23-97	4		30
2-Chlorophenol	62		76		27-123	20		30
2,4-Dichlorophenol	66		76		30-130	14		30
2,4-Dimethylphenol	57		64		30-130	12		30
2-Nitrophenol	58		72		30-130	22		30
4-Nitrophenol	59		62		10-80	5		30
2,4-Dinitrophenol	70		74		20-130	6		30
4,6-Dinitro-o-cresol	68		71		20-164	4		30
Pentachlorophenol	62		66		9-103	6		30
Phenol	49		55		12-110	12		30
2-Methylphenol	63		73		30-130	15		30
3-Methylphenol/4-Methylphenol	66		75		30-130	13		30
2,4,5-Trichlorophenol	69		71		30-130	3		30
Benzoic Acid	46		51		10-164	10		30
Benzyl Alcohol	56		68		26-116	19		30
Carbazole	75		77		55-144	3		30



## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1427424-2 WG1427424-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	51		62		21-120
Phenol-d6	47		55		10-120
Nitrobenzene-d5	61		75		23-120
2-Fluorobiphenyl	63		73		15-120
2,4,6-Tribromophenol	94		91		10-120
4-Terphenyl-d14	75		77		41-149

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1427426-2 WG1427426-3								
Acenaphthene	73		79		40-140	8		40
2-Chloronaphthalene	80		84		40-140	5		40
Fluoranthene	89		95		40-140	7		40
Hexachlorobutadiene	71		72		40-140	1		40
Naphthalene	70		74		40-140	6		40
Benzo(a)anthracene	81		88		40-140	8		40
Benzo(a)pyrene	84		94		40-140	11		40
Benzo(b)fluoranthene	83		87		40-140	5		40
Benzo(k)fluoranthene	91		95		40-140	4		40
Chrysene	86		91		40-140	6		40
Acenaphthylene	79		84		40-140	6		40
Anthracene	82		92		40-140	11		40
Benzo(ghi)perylene	91		94		40-140	3		40
Fluorene	79		85		40-140	7		40
Phenanthrene	80		85		40-140	6		40
Dibenzo(a,h)anthracene	93		102		40-140	9		40
Indeno(1,2,3-cd)pyrene	89		97		40-140	9		40
Pyrene	88		94		40-140	7		40
2-Methylnaphthalene	79		81		40-140	3		40
Pentachlorophenol	144	Q	141	Q	40-140	2		40
Hexachlorobenzene	74		79		40-140	7		40
Hexachloroethane	63		64		40-140	2		40

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046625

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-03 Batch: WG1427426-2 WG1427426-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		58		21-120
Phenol-d6	47		49		10-120
Nitrobenzene-d5	76		79		23-120
2-Fluorobiphenyl	84		89		15-120
2,4,6-Tribromophenol	82		84		10-120
4-Terphenyl-d14	103		108		41-149

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG1427840-2 WG1427840-3								
1,4-Dioxane	100		102		40-140	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	72		74		15-110

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 Batch: WG1427914-2 WG1427914-3								
Perfluorobutanoic Acid (PFBA)	104		103		67-148	1		30
Perfluoropentanoic Acid (PFPeA)	111		110		63-161	1		30
Perfluorobutanesulfonic Acid (PFBS)	95		95		65-157	0		30
Perfluorohexanoic Acid (PFHxA)	103		105		69-168	2		30
Perfluoroheptanoic Acid (PFHpA)	97		97		58-159	0		30
Perfluorohexanesulfonic Acid (PFHxS)	75		78		69-177	4		30
Perfluorooctanoic Acid (PFOA)	96		96		63-159	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	107		103		49-187	4		30
Perfluoroheptanesulfonic Acid (PFHpS)	81		83		61-179	2		30
Perfluorononanoic Acid (PFNA)	95		92		68-171	3		30
Perfluorooctanesulfonic Acid (PFOS)	98		98		52-151	0		30
Perfluorodecanoic Acid (PFDA)	106		104		63-171	2		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	97		104		56-173	7		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	100		94		60-166	6		30
Perfluoroundecanoic Acid (PFUnA)	90		88		60-153	2		30
Perfluorodecanesulfonic Acid (PFDS)	108		99		38-156	9		30
Perfluorooctanesulfonamide (FOSA)	101		100		46-170	1		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	104		108		45-170	4		30
Perfluorododecanoic Acid (PFDoA)	83		84		67-153	1		30
Perfluorotridecanoic Acid (PFTrDA)	98		99		48-158	1		30
Perfluorotetradecanoic Acid (PFTA)	100		102		59-182	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 Batch: WG1427914-2 WG1427914-3								

Surrogate (Extracted Internal Standard)	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		105		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	137		133		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		110		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		88		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	103		102		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	111		108		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	113		108		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	77		76		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	128		124		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		107		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		94		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	122		114		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	89		84		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	130		124		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	38		32		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	110		97		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	132		121		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	129		121		33-143

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 Batch: WG1427914-2 WG1427914-3								
Perfluorooctanesulfonamide (FOSA)	98		100		46-170	2		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	68		59		1-87

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** 327 HUGUENOT

**Project Number:** 11571

**Lab Number:** L2046625

**Report Date:** 11/03/20

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1427914-4 QC Sample: L2046625-01 Client ID: GW-1												
Perfluorobutanoic Acid (PFBA)	15.6	40.2	57.1	103		-	-		67-148	-		30
Perfluoropentanoic Acid (PFPeA)	36.0	40.2	80.1	110		-	-		63-161	-		30
Perfluorobutanesulfonic Acid (PFBS)	8.78	35.7	42.0	93		-	-		65-157	-		30
Perfluorohexanoic Acid (PFHxA)	30.4	40.2	72.9	106		-	-		69-168	-		30
Perfluoroheptanoic Acid (PFHpA)	15.4	40.2	53.9	96		-	-		58-159	-		30
Perfluorohexanesulfonic Acid (PFHxS)	5.66	36.7	34.3	78		-	-		69-177	-		30
Perfluorooctanoic Acid (PFOA)	37.0	40.2	75.8	97		-	-		63-159	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	38.2	38.7	101		-	-		49-187	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	38.2	32.3	84		-	-		61-179	-		30
Perfluorononanoic Acid (PFNA)	10.0	40.2	48.5	96		-	-		68-171	-		30
Perfluorooctanesulfonic Acid (PFOS)	20.7	37.3	54.9	92		-	-		52-151	-		30
Perfluorodecanoic Acid (PFDA)	0.548J	40.2	40.1	98		-	-		63-171	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	38.6	34.4	89		-	-		56-173	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	40.2	40.1	100		-	-		60-166	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	40.2	34.8	87		-	-		60-153	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	38.7	39.8	103		-	-		38-156	-		30
Perfluorooctanesulfonamide (FOSA)	ND	40.2	38.4	96		-	-		46-170	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	40.2	56.2	140		-	-		45-170	-		30
Perfluorododecanoic Acid (PFDoA)	ND	40.2	32.9	82		-	-		67-153	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	40.2	38.8	97		-	-		48-158	-		30
Perfluorotetradecanoic Acid (PFTTA)	ND	40.2	39.2	98		-	-		59-182	-		30



## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** 327 HUGUENOT

**Lab Number:** L2046625

**Project Number:** 11571

**Report Date:** 11/03/20

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1427914-4 QC Sample: L2046625-01 Client ID: GW-1												

<i>Surrogate (Extracted Internal Standard)</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	130				7-170
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	108				1-244
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	77				23-146
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	69				1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	113				40-144
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90				38-144
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	65				21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89				30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94				47-153
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	116				24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	112				33-143
Perfluoro[13C4]Butanoic Acid (MPFBA)	96				2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103				16-173
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	80				1-87
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100				42-146
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101				36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	114				34-146
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85				31-159

## Lab Duplicate Analysis

Batch Quality Control

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046625

Report Date: 11/03/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1427914-5 QC Sample: L2046625-02 Client ID: GW-2						
Perfluorobutanoic Acid (PFBA)	8.62	8.76	ng/l	2		30
Perfluoropentanoic Acid (PFPeA)	10.7	10.4	ng/l	3		30
Perfluorobutanesulfonic Acid (PFBS)	8.72	8.76	ng/l	0		30
Perfluorohexanoic Acid (PFHxA)	8.17	7.94	ng/l	3		30
Perfluoroheptanoic Acid (PFHpA)	5.10	5.12	ng/l	0		30
Perfluorohexanesulfonic Acid (PFHxS)	1.95J	2.28F	ng/l	NC		30
Perfluorooctanoic Acid (PFOA)	12.1	12.2	ng/l	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/l	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/l	NC		30
Perfluorononanoic Acid (PFNA)	2.51	2.63	ng/l	5		30
Perfluorooctanesulfonic Acid (PFOS)	35.2	37.2	ng/l	6		30
Perfluorodecanoic Acid (PFDA)	3.02	3.23	ng/l	7		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/l	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/l	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	0.332J	ng/l	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/l	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/l	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	0.402JF	ng/l	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/l	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/l	NC		30

## Lab Duplicate Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046625

Report Date: 11/03/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1427914-5 QC Sample: L2046625-02 Client ID: GW-2						
PFOA/PFOS, Total	47.3	49.4	ng/l	4		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		86		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		98		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	88		87		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	61		59		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	80		78		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		83		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		94		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	111		114		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	108		112		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		104		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	83		86		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	147		154		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	53		65		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	114		123		40-144
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	67		103		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	105		111		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	99		107		33-143

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Project Name:** 327 HUGUENOT

**Project Number:** 11571

**Lab Number:** L2046625

**Report Date:** 11/03/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1427914-5 QC Sample: L2046625-02 Client ID: GW-2						
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/l	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	66		65		1-87

# PCBS

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-01  
 Client ID: GW-1  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 11:30  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8082A  
 Analytical Date: 10/29/20 10:57  
 Analyst: CW

Extraction Method: EPA 3510C  
 Extraction Date: 10/28/20 08:18  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/28/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/28/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	0.048	J	ug/l	0.083	0.039	1	B
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	0.048	J	ug/l	0.083	0.032	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	56		30-150	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-02  
 Client ID: GW-2  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:50  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8082A  
 Analytical Date: 10/29/20 11:06  
 Analyst: CW

Extraction Method: EPA 3510C  
 Extraction Date: 10/28/20 08:18  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/28/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/28/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	0.723		ug/l	0.083	0.049	1	B
Aroclor 1254	0.214		ug/l	0.083	0.039	1	B
Aroclor 1260	0.049	J	ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	0.986	J	ug/l	0.083	0.032	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	47		30-150	B

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-03  
 Client ID: GW-3  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 14:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8082A  
 Analytical Date: 10/29/20 11:14  
 Analyst: CW

Extraction Method: EPA 3510C  
 Extraction Date: 10/28/20 08:18  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 10/28/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 10/28/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	0.062	J	ug/l	0.083	0.039	1	B
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	0.062	J	ug/l	0.083	0.032	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	39		30-150	B



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 10/27/20 15:00  
Analyst: CW

Extraction Method: EPA 3510C  
Extraction Date: 10/27/20 08:36  
Cleanup Method: EPA 3665A  
Cleanup Date: 10/27/20  
Cleanup Method: EPA 3660B  
Cleanup Date: 10/27/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1426949-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	78		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1426949-2 WG1426949-3									
Aroclor 1016	96		83		40-140	14		50	A
Aroclor 1260	85		75		40-140	13		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		82		30-150	A
Decachlorobiphenyl	97		84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		79		30-150	B
Decachlorobiphenyl	93		83		30-150	B

# PESTICIDES

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-01  
 Client ID: GW-1  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 11:30  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8081B  
 Analytical Date: 10/28/20 23:23  
 Analyst: BM

Extraction Method: EPA 3510C  
 Extraction Date: 10/28/20 08:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-01

Date Collected: 10/26/20 11:30

Client ID: GW-1

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-02  
 Client ID: GW-2  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 12:50  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8081B  
 Analytical Date: 10/29/20 12:25  
 Analyst: SM

Extraction Method: EPA 3510C  
 Extraction Date: 10/28/20 08:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	0.021		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	0.047		ug/l	0.029	0.003	1	A
4,4'-DDE	0.231		ug/l	0.029	0.003	1	A
4,4'-DDD	0.085		ug/l	0.029	0.003	1	B
4,4'-DDT	1.08		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	0.177		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	0.061	IP	ug/l	0.014	0.005	1	B
trans-Chlordane	0.095	IP	ug/l	0.014	0.004	1	A
Chlordane	0.766		ug/l	0.143	0.033	1	A

**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-02

Date Collected: 10/26/20 12:50

Client ID: GW-2

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-03  
 Client ID: GW-3  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 10/26/20 14:00  
 Date Received: 10/27/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8081B  
 Analytical Date: 10/28/20 23:46  
 Analyst: BM

Extraction Method: EPA 3510C  
 Extraction Date: 10/28/20 08:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	0.016	J	ug/l	0.029	0.003	1	A
4,4'-DDE	0.113		ug/l	0.029	0.003	1	B
4,4'-DDD	0.018	J	ug/l	0.029	0.003	1	B
4,4'-DDT	0.410		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	0.032	IP	ug/l	0.014	0.005	1	B
trans-Chlordane	0.050		ug/l	0.014	0.004	1	A
Chlordane	0.387		ug/l	0.143	0.033	1	A



**Project Name:** 327 HUGUENOT**Lab Number:** L2046625**Project Number:** 11571**Report Date:** 11/03/20**SAMPLE RESULTS**

Lab ID: L2046625-03

Date Collected: 10/26/20 14:00

Client ID: GW-3

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	44		30-150	B

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 10/27/20 14:37  
Analyst: SM

Extraction Method: EPA 3510C  
Extraction Date: 10/27/20 08:34

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1426947-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 10/27/20 14:37  
Analyst: SM

Extraction Method: EPA 3510C  
Extraction Date: 10/27/20 08:34

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1426947-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	71		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1426947-2 WG1426947-3									
Delta-BHC	80		80		30-150	1		20	A
Lindane	81		80		30-150	1		20	A
Alpha-BHC	94		92		30-150	3		20	A
Beta-BHC	82		79		30-150	4		20	A
Heptachlor	84		81		30-150	4		20	A
Aldrin	85		85		30-150	0		20	A
Heptachlor epoxide	84		83		30-150	1		20	A
Endrin	88		87		30-150	1		20	A
Endrin aldehyde	77		81		30-150	5		20	A
Endrin ketone	81		83		30-150	2		20	A
Dieldrin	92		91		30-150	2		20	A
4,4'-DDE	84		85		30-150	0		20	A
4,4'-DDD	93		92		30-150	0		20	A
4,4'-DDT	82		81		30-150	1		20	A
Endosulfan I	84		83		30-150	1		20	A
Endosulfan II	83		83		30-150	0		20	A
Endosulfan sulfate	82		83		30-150	1		20	A
Methoxychlor	74		77		30-150	4		20	A
cis-Chlordane	61		66		30-150	8		20	A
trans-Chlordane	82		84		30-150	2		20	A

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1426947-2 WG1426947-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	87		81		30-150	A
Decachlorobiphenyl	76		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		73		30-150	B
Decachlorobiphenyl	72		69		30-150	B

## METALS

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-01

Date Collected: 10/26/20 11:30

Client ID: GW-1

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	3.26		mg/l	0.0100	0.00327	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00211		mg/l	0.00050	0.00016	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Barium, Total	0.2412		mg/l	0.00050	0.00017	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00069		mg/l	0.00050	0.00010	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00009	J	mg/l	0.00020	0.00005	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Calcium, Total	320.		mg/l	0.100	0.0394	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Chromium, Total	0.00856		mg/l	0.00100	0.00017	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00533		mg/l	0.00050	0.00016	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Copper, Total	0.01695		mg/l	0.00100	0.00038	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Iron, Total	134.		mg/l	0.0500	0.0191	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Lead, Total	0.07650		mg/l	0.00100	0.00034	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Magnesium, Total	125.		mg/l	0.0700	0.0242	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Manganese, Total	7.096		mg/l	0.00100	0.00044	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/28/20 16:18	10/29/20 11:18	EPA 7470A	1,7470A	EW
Nickel, Total	0.01570		mg/l	0.00200	0.00055	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Potassium, Total	16.9		mg/l	0.100	0.0309	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Sodium, Total	153.		mg/l	0.100	0.0293	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Thallium, Total	0.00016	J	mg/l	0.00100	0.00014	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Vanadium, Total	0.01304		mg/l	0.00500	0.00157	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
Zinc, Total	0.05539		mg/l	0.01000	0.00341	1	10/28/20 16:14	10/29/20 12:18	EPA 3005A	1,6020B	AM
<b>Dissolved Metals - Mansfield Lab</b>											
Aluminum, Dissolved	0.00562	J	mg/l	0.0100	0.00327	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00020	J	mg/l	0.00050	0.00016	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.08488		mg/l	0.00050	0.00017	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM



Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-01

Date Collected: 10/26/20 11:30

Client ID: GW-1

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Calcium, Dissolved	313.		mg/l	0.100	0.0394	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Chromium, Dissolved	0.00064	J	mg/l	0.00100	0.00017	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	0.00302		mg/l	0.00050	0.00016	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Iron, Dissolved	76.4		mg/l	0.0500	0.0191	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	118.		mg/l	0.0700	0.0242	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Manganese, Dissolved	6.889		mg/l	0.00100	0.00044	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/29/20 02:50	10/29/20 10:10	EPA 7470A	1,7470A	EW
Nickel, Dissolved	0.00782		mg/l	0.00200	0.00055	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Potassium, Dissolved	15.4		mg/l	0.100	0.0309	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Sodium, Dissolved	147.		mg/l	0.100	0.0293	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Thallium, Dissolved	0.00020	J	mg/l	0.00100	0.00014	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM
Zinc, Dissolved	0.01154		mg/l	0.01000	0.00341	1	10/28/20 23:15	10/29/20 10:09	EPA 3005A	1,6020B	AM





Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-02

Date Collected: 10/26/20 12:50

Client ID: GW-2

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	27.7		mg/l	0.0100	0.00327	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Antimony, Total	0.00073	J	mg/l	0.00400	0.00042	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00937		mg/l	0.00050	0.00016	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Barium, Total	5.348		mg/l	0.00050	0.00017	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00176		mg/l	0.00050	0.00010	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00231		mg/l	0.00020	0.00005	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Calcium, Total	301.		mg/l	0.100	0.0394	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Chromium, Total	0.04766		mg/l	0.00100	0.00017	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Cobalt, Total	0.07179		mg/l	0.00050	0.00016	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Copper, Total	0.1262		mg/l	0.00100	0.00038	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Iron, Total	36.5		mg/l	0.0500	0.0191	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Lead, Total	3.501		mg/l	0.00100	0.00034	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Magnesium, Total	114.		mg/l	0.0700	0.0242	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Manganese, Total	3.188		mg/l	0.00100	0.00044	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/28/20 16:18	10/29/20 11:25	EPA 7470A	1,7470A	EW
Nickel, Total	0.06597		mg/l	0.00200	0.00055	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Potassium, Total	18.0		mg/l	0.100	0.0309	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Selenium, Total	0.00644		mg/l	0.00500	0.00173	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Silver, Total	0.00017	J	mg/l	0.00040	0.00016	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Sodium, Total	547.		mg/l	5.00	1.46	50	10/28/20 16:14	10/29/20 14:48	EPA 3005A	1,6020B	AM
Thallium, Total	0.00054		mg/l	0.00050	0.00014	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Vanadium, Total	0.1908		mg/l	0.00500	0.00157	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
Zinc, Total	2.228		mg/l	0.01000	0.00341	1	10/28/20 16:14	10/29/20 12:23	EPA 3005A	1,6020B	AM
<b>Dissolved Metals - Mansfield Lab</b>											
Aluminum, Dissolved	0.0118		mg/l	0.0100	0.00327	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00415		mg/l	0.00400	0.00042	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00031	J	mg/l	0.00050	0.00016	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.09932		mg/l	0.00050	0.00017	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM



Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-02

Date Collected: 10/26/20 12:50

Client ID: GW-2

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Calcium, Dissolved	62.6		mg/l	0.100	0.0394	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Chromium, Dissolved	0.00094	J	mg/l	0.00100	0.00017	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	0.00453		mg/l	0.00050	0.00016	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00132		mg/l	0.00100	0.00038	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Lead, Dissolved	0.00154		mg/l	0.00100	0.00034	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	44.5		mg/l	0.0700	0.0242	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.7061		mg/l	0.00100	0.00044	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/29/20 02:50	10/29/20 10:19	EPA 7470A	1,7470A	EW
Nickel, Dissolved	0.00519		mg/l	0.00200	0.00055	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Potassium, Dissolved	9.44		mg/l	0.100	0.0309	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Selenium, Dissolved	0.00349	J	mg/l	0.00500	0.00173	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Sodium, Dissolved	518.		mg/l	5.00	1.46	50	10/28/20 23:15	10/29/20 11:32	EPA 3005A	1,6020B	AM
Thallium, Dissolved	0.00029	J	mg/l	0.00100	0.00014	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM
Zinc, Dissolved	0.00458	J	mg/l	0.01000	0.00341	1	10/28/20 23:15	10/29/20 10:56	EPA 3005A	1,6020B	AM



Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-03

Date Collected: 10/26/20 14:00

Client ID: GW-3

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	15.3		mg/l	0.0500	0.0164	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.02000	0.00214	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00641		mg/l	0.00250	0.00082	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Barium, Total	0.3673		mg/l	0.00250	0.00086	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00117	J	mg/l	0.00250	0.00053	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00034	J	mg/l	0.00100	0.00029	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Calcium, Total	171.		mg/l	0.500	0.197	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Chromium, Total	0.03474		mg/l	0.00500	0.00089	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Cobalt, Total	0.03110		mg/l	0.00250	0.00081	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Copper, Total	0.04056		mg/l	0.00500	0.00192	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Iron, Total	31.4		mg/l	0.250	0.0955	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Lead, Total	1.474		mg/l	0.00500	0.00171	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Magnesium, Total	237.		mg/l	0.350	0.121	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Manganese, Total	2.516		mg/l	0.00500	0.00220	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/28/20 16:18	10/29/20 11:27	EPA 7470A	1,7470A	EW
Nickel, Total	0.04898		mg/l	0.01000	0.00278	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Potassium, Total	20.0		mg/l	0.500	0.154	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Selenium, Total	0.0121	J	mg/l	0.0250	0.00865	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00200	0.00081	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Sodium, Total	1120		mg/l	0.500	0.146	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00500	0.00071	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Vanadium, Total	0.07965		mg/l	0.02500	0.00785	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
Zinc, Total	0.1979		mg/l	0.05000	0.01705	5	10/28/20 16:14	10/29/20 12:28	EPA 3005A	1,6020B	AM
<b>Dissolved Metals - Mansfield Lab</b>											
Aluminum, Dissolved	0.0342		mg/l	0.0100	0.00327	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00138	J	mg/l	0.00400	0.00042	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00051		mg/l	0.00050	0.00016	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.1299		mg/l	0.00050	0.00017	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM



Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-03

Date Collected: 10/26/20 14:00

Client ID: GW-3

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Calcium, Dissolved	90.2		mg/l	0.100	0.0394	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Chromium, Dissolved	0.00243		mg/l	0.00100	0.00017	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	0.00264		mg/l	0.00050	0.00016	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00191		mg/l	0.00100	0.00038	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Iron, Dissolved	0.0656		mg/l	0.0500	0.0191	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Lead, Dissolved	0.00472		mg/l	0.00100	0.00034	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	228.		mg/l	0.0700	0.0242	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.1992		mg/l	0.00100	0.00044	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	10/29/20 02:50	10/29/20 10:26	EPA 7470A	1,7470A	EW
Nickel, Dissolved	0.00648		mg/l	0.00200	0.00055	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Potassium, Dissolved	12.7		mg/l	0.100	0.0309	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Selenium, Dissolved	0.00642		mg/l	0.00500	0.00173	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Sodium, Dissolved	1010		mg/l	5.00	1.46	50	10/28/20 23:15	10/29/20 12:44	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	10/28/20 23:15	10/29/20 11:01	EPA 3005A	1,6020B	AM



Project Name: 327 HUGUENOT  
Project Number: 11571

Lab Number: L2046625  
Report Date: 11/03/20

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1427631-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Thallium, Total	0.00016	J	mg/l	0.00100	0.00014	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/28/20 16:14	10/29/20 10:46	1,6020B	AM

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1427632-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	10/28/20 16:18	10/29/20 11:14	1,7470A	EW



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

## Method Blank Analysis Batch Quality Control

### Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1427727-1										
Aluminum, Dissolved	0.00630	J	mg/l	0.0100	0.00327	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Antimony, Dissolved	0.00057	J	mg/l	0.00400	0.00042	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Chromium, Dissolved	0.00060	J	mg/l	0.00100	0.00017	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Iron, Dissolved	0.0234	J	mg/l	0.0500	0.0191	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Sodium, Dissolved	0.0643	J	mg/l	0.100	0.0293	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Thallium, Dissolved	0.00019	J	mg/l	0.00100	0.00014	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM
Zinc, Dissolved	0.00521	J	mg/l	0.01000	0.00341	1	10/28/20 23:15	10/29/20 09:44	1,6020B	AM

### Prep Information

Digestion Method: EPA 3005A



Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1427728-1									
Mercury, Dissolved	ND	mg/l	0.00020	0.00009	1	10/29/20 02:50	10/29/20 10:05	1,7470A	EW

### Prep Information

Digestion Method: EPA 7470A

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1427631-2								
Aluminum, Total	108		-		80-120	-		
Antimony, Total	92		-		80-120	-		
Arsenic, Total	104		-		80-120	-		
Barium, Total	104		-		80-120	-		
Beryllium, Total	98		-		80-120	-		
Cadmium, Total	108		-		80-120	-		
Calcium, Total	96		-		80-120	-		
Chromium, Total	97		-		80-120	-		
Cobalt, Total	98		-		80-120	-		
Copper, Total	99		-		80-120	-		
Iron, Total	103		-		80-120	-		
Lead, Total	110		-		80-120	-		
Magnesium, Total	105		-		80-120	-		
Manganese, Total	100		-		80-120	-		
Nickel, Total	96		-		80-120	-		
Potassium, Total	106		-		80-120	-		
Selenium, Total	105		-		80-120	-		
Silver, Total	104		-		80-120	-		
Sodium, Total	104		-		80-120	-		
Thallium, Total	104		-		80-120	-		
Vanadium, Total	99		-		80-120	-		



## Lab Control Sample Analysis

Batch Quality Control

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046625

Report Date: 11/03/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1427631-2					
Zinc, Total	106	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1427632-2					
Mercury, Total	107	-	80-120	-	

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1427727-2					
Aluminum, Dissolved	109	-	80-120	-	
Antimony, Dissolved	105	-	80-120	-	
Arsenic, Dissolved	106	-	80-120	-	
Barium, Dissolved	106	-	80-120	-	
Beryllium, Dissolved	102	-	80-120	-	
Cadmium, Dissolved	110	-	80-120	-	
Calcium, Dissolved	94	-	80-120	-	
Chromium, Dissolved	104	-	80-120	-	
Cobalt, Dissolved	101	-	80-120	-	
Copper, Dissolved	103	-	80-120	-	
Iron, Dissolved	101	-	80-120	-	
Lead, Dissolved	112	-	80-120	-	
Magnesium, Dissolved	109	-	80-120	-	
Manganese, Dissolved	103	-	80-120	-	
Nickel, Dissolved	99	-	80-120	-	
Potassium, Dissolved	107	-	80-120	-	
Selenium, Dissolved	109	-	80-120	-	
Silver, Dissolved	106	-	80-120	-	
Sodium, Dissolved	105	-	80-120	-	
Thallium, Dissolved	106	-	80-120	-	
Vanadium, Dissolved	104	-	80-120	-	

## Lab Control Sample Analysis

Batch Quality Control

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046625

Report Date: 11/03/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1427727-2					
Zinc, Dissolved	108	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1427728-2					
Mercury, Dissolved	112	-	80-120	-	

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03    QC Batch ID: WG1427631-3    QC Sample: L2046201-01    Client ID: MS Sample												
Aluminum, Total	0.111	2	2.14	101		-	-		75-125	-		20
Antimony, Total	ND	0.5	0.5084	102		-	-		75-125	-		20
Arsenic, Total	0.00221J	0.12	0.1223	102		-	-		75-125	-		20
Barium, Total	0.0401	2	1.976	97		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.05333	107		-	-		75-125	-		20
Cadmium, Total	ND	0.051	0.05089	100		-	-		75-125	-		20
Calcium, Total	106	10	110	40	Q	-	-		75-125	-		20
Chromium, Total	ND	0.2	0.1759	88		-	-		75-125	-		20
Cobalt, Total	ND	0.5	0.4523	90		-	-		75-125	-		20
Copper, Total	0.00704	0.25	0.2376	92		-	-		75-125	-		20
Iron, Total	0.786	1	1.79	100		-	-		75-125	-		20
Lead, Total	ND	0.51	0.5250	103		-	-		75-125	-		20
Magnesium, Total	124	10	124	0	Q	-	-		75-125	-		20
Manganese, Total	0.1031	0.5	0.5520	90		-	-		75-125	-		20
Nickel, Total	0.00414J	0.5	0.4359	87		-	-		75-125	-		20
Potassium, Total	73.0	10	79.2	62	Q	-	-		75-125	-		20
Selenium, Total	ND	0.12	0.125	104		-	-		75-125	-		20
Silver, Total	ND	0.05	0.04766	95		-	-		75-125	-		20
Sodium, Total	1960	10	1760	0	Q	-	-		75-125	-		20
Thallium, Total	0.0009J	0.12	0.1169	97		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.4383	88		-	-		75-125	-		20

**Matrix Spike Analysis**  
Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03    QC Batch ID: WG1427631-3    QC Sample: L2046201-01    Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5705	114	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03    QC Batch ID: WG1427632-3    QC Sample: L2046625-01    Client ID: GW-1									
Mercury, Total	ND	0.005	0.00518	104	-	-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1427727-3 QC Sample: L2046625-01 Client ID: GW-1									
Aluminum, Dissolved	0.00562J	2	2.16	108	-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.5759	115	-	-	75-125	-	20
Arsenic, Dissolved	0.00020J	0.12	0.1278	106	-	-	75-125	-	20
Barium, Dissolved	0.08488	2	2.123	102	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05404	108	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05412	106	-	-	75-125	-	20
Calcium, Dissolved	313.	10	301	0	Q	-	75-125	-	20
Chromium, Dissolved	0.00064J	0.2	0.1980	99	-	-	75-125	-	20
Cobalt, Dissolved	0.00302	0.5	0.4949	98	-	-	75-125	-	20
Copper, Dissolved	ND	0.25	0.2432	97	-	-	75-125	-	20
Iron, Dissolved	76.4	1	73.4	0	Q	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5634	110	-	-	75-125	-	20
Magnesium, Dissolved	118.	10	124	60	Q	-	75-125	-	20
Manganese, Dissolved	6.889	0.5	6.683	0	Q	-	75-125	-	20
Nickel, Dissolved	0.00782	0.5	0.4789	94	-	-	75-125	-	20
Potassium, Dissolved	15.4	10	24.8	94	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.122	102	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05132	103	-	-	75-125	-	20
Sodium, Dissolved	147.	10	139	0	Q	-	75-125	-	20
Thallium, Dissolved	0.00020J	0.12	0.1229	102	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.5139	103	-	-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1427727-3 QC Sample: L2046625-01 Client ID: GW-1									
Zinc, Dissolved	0.01154	0.5	0.5228	102	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1427728-3 QC Sample: L2046625-01 Client ID: GW-1									
Mercury, Dissolved	ND	0.005	0.00509	102	-	-	75-125	-	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046625

Report Date: 11/03/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1427631-4 QC Sample: L2046201-01 Client ID: DUP Sample						
Arsenic, Total	0.00221J	0.00258	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Copper, Total	0.00704	0.00660	mg/l	6		20
Lead, Total	ND	ND	mg/l	NC		20
Nickel, Total	0.00414J	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Zinc, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1427632-4 QC Sample: L2046625-01 Client ID: GW-1						
Mercury, Total	ND	ND	mg/l	NC		20



## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046625

Report Date: 11/03/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1427727-4 QC Sample: L2046625-01 Client ID: GW-1					
Aluminum, Dissolved	0.00562J	0.00490J	mg/l	NC	20
Antimony, Dissolved	ND	0.00059J	mg/l	NC	20
Arsenic, Dissolved	0.00020J	0.00021J	mg/l	NC	20
Barium, Dissolved	0.08488	0.08473	mg/l	0	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	313.	311	mg/l	1	20
Chromium, Dissolved	0.00064J	0.00065J	mg/l	NC	20
Cobalt, Dissolved	0.00302	0.00305	mg/l	1	20
Copper, Dissolved	ND	ND	mg/l	NC	20
Iron, Dissolved	76.4	76.0	mg/l	1	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	118.	119	mg/l	1	20
Manganese, Dissolved	6.889	6.817	mg/l	1	20
Nickel, Dissolved	0.00782	0.00822	mg/l	5	20
Potassium, Dissolved	15.4	15.3	mg/l	1	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	147.	147	mg/l	0	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 327 HUGUENOT

Project Number: 11571

Lab Number: L2046625

Report Date: 11/03/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1427727-4 QC Sample: L2046625-01 Client ID: GW-1					
Thallium, Dissolved	0.00020J	0.00054J	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	0.01154	0.01155	mg/l	0	20
Dissolved Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1427728-4 QC Sample: L2046625-01 Client ID: GW-1					
Mercury, Dissolved	ND	ND	mg/l	NC	20

# **INORGANICS & MISCELLANEOUS**

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-01

Date Collected: 10/26/20 11:30

Client ID: GW-1

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	10/28/20 10:20	10/28/20 13:02	1,9010C/9012B	CR



Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-02

Date Collected: 10/26/20 12:50

Client ID: GW-2

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.005		mg/l	0.005	0.001	1	10/28/20 10:20	10/28/20 13:03	1,9010C/9012B	CR



Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

## SAMPLE RESULTS

Lab ID: L2046625-03

Date Collected: 10/26/20 14:00

Client ID: GW-3

Date Received: 10/27/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	10/28/20 10:20	10/28/20 12:55	1,9010C/9012B	CR



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1427490-1									
Cyanide, Total	ND	mg/l	0.005	0.001	1	10/28/20 10:20	10/28/20 12:37	1,9010C/9012B	CR

## Lab Control Sample Analysis

Batch Quality Control

Project Name: 327 HUGUENOT

Lab Number: L2046625

Project Number: 11571

Report Date: 11/03/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1427490-2 WG1427490-3								
Cyanide, Total	94		96		85-115	2		20



**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1427490-4 WG1427490-5 QC Sample: L2046625-01 Client ID: GW-1												
Cyanide, Total	ND	0.2	0.194	97		0.199	100		80-120	3		20

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

Serial\_No:11032017:14  
**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

**Cooler**                      **Custody Seal**  
A                                      Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2046625-01A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2046625-01B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2046625-01C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2046625-01D	Plastic 250ml unpreserved	A	NA		2.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046625-01E	Plastic 250ml unpreserved	A	NA		2.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046625-01F	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8082-LVI(7)
L2046625-01G	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8082-LVI(7)
L2046625-01H	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8081(7)
L2046625-01I	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8081(7)
L2046625-01J	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2046625-01K	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2046625-01L	Plastic 250ml NaOH preserved	A	>12	>12	2.6	Y	Absent		TCN-9010(14)
L2046625-01M	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		SE-6020T(180),BA-6020T(180),TL-6020T(180),FE-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),AL-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L2046625-01N	Plastic 250ml unpreserved	A	7	7	2.6	Y	Absent		-

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Serial\_No:**11032017:14  
**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2046625-01X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.6	Y	Absent		SE-6020S(180),V-6020S(180),CU-6020S(180),K-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CR-6020S(180),FE-6020S(180),CA-6020S(180),PB-6020S(180),NA-6020S(180),BA-6020S(180),TL-6020S(180),NI-6020S(180),AS-6020S(180),AG-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2046625-02A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2046625-02B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2046625-02C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2046625-02D	Plastic 250ml unpreserved	A	NA		2.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046625-02E	Plastic 250ml unpreserved	A	NA		2.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046625-02F	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8082-LVI(7)
L2046625-02G	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8082-LVI(7)
L2046625-02H	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8081(7)
L2046625-02I	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8081(7)
L2046625-02J	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2046625-02K	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2046625-02L	Plastic 250ml NaOH preserved	A	>12	>12	2.6	Y	Absent		TCN-9010(14)
L2046625-02M	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CD-6020T(180),CO-6020T(180)
L2046625-02N	Plastic 250ml unpreserved	A	7	7	2.6	Y	Absent		-

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Serial\_No:**11032017:14  
**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2046625-02X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.6	Y	Absent		SE-6020S(180),CU-6020S(180),V-6020S(180),K-6020S(180),MN-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),BE-6020S(180),CR-6020S(180),CA-6020S(180),FE-6020S(180),BA-6020S(180),TL-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),CD-6020S(180),AL-6020S(180),HG-S(28)
L2046625-03A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2046625-03B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2046625-03C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2046625-03D	Plastic 250ml unpreserved	A	NA		2.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046625-03E	Plastic 250ml unpreserved	A	NA		2.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L2046625-03F	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8082-LVI(7)
L2046625-03G	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8082-LVI(7)
L2046625-03H	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8081(7)
L2046625-03I	Amber 120ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8081(7)
L2046625-03J	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2046625-03K	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2046625-03L	Plastic 250ml NaOH preserved	A	>12	>12	2.6	Y	Absent		TCN-9010(14)
L2046625-03M	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180),AL-6020T(180),MG-6020T(180),CO-6020T(180)
L2046625-03N	Plastic 250ml unpreserved	A	7	7	2.6	Y	Absent		-

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Serial\_No:**11032017:14  
**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2046625-03X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.6	Y	Absent		K-6020S(180),SE-6020S(180),V-6020S(180),CU-6020S(180),MN-6020S(180),CO-6020S(180),ZN-6020S(180),BE-6020S(180),MG-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),NA-6020S(180),PB-6020S(180),TL-6020S(180),BA-6020S(180),NI-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),HG-S(28),AL-6020S(180),CD-6020S(180)
L2046625-04A	Plastic 250ml unpreserved	A	NA		2.6	Y	Absent		A2-NY-537-ISOTOPE(14)

Project Name: 327 HUGUENOT

Project Number: 11571

Serial\_No:11032017:14  
Lab Number: L2046625

Report Date: 11/03/20

## PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
<b>PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)</b>		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
<b>PERFLUOROALKYL SULFONIC ACIDS (PFSAs)</b>		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
<b>FLUOROTELOMERS</b>		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
<b>PERFLUOROALKANE SULFONAMIDES (FASAs)</b>		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
<b>PERFLUOROALKANE SULFONYL SUBSTANCES</b>		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
<b>PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS</b>		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
<b>CHLORO-PERFLUOROALKYL SULFONIC ACIDS</b>		
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
<b>PERFLUOROETHER SULFONIC ACIDS (PFESAs)</b>		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEEESA	113507-82-7
<b>PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)</b>		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

#### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers





**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

**Data Qualifiers**

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** 327 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2046625  
**Report Date:** 11/03/20

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

---

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**EPA TO-12** Non-methane organics

**EPA 3C** Fixed gases

**Biological Tissue Matrix:** EPA 3050B

---

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

**EPA 522.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1** Hg.

**SM2340B**

---

For a complete listing of analytes and methods, please contact your Alpha Project Manager.





## ANALYTICAL REPORT

Lab Number:	L2051312
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Jesse Mausner
Phone:	(973) 808-9050
Project Name:	329 HUGUENOT ST
Project Number:	11571
Report Date:	11/23/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

---

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



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2051312-01	S-12 (3-4)	SOIL	NEW ROCHELLE, NY	11/18/20 08:40	11/18/20
L2051312-02	S-13 (5-6)	SOIL	NEW ROCHELLE, NY	11/18/20 09:00	11/18/20
L2051312-03	S-14 (4-5)	SOIL	NEW ROCHELLE, NY	11/18/20 09:10	11/18/20
L2051312-04	S-15 (5-6)	SOIL	NEW ROCHELLE, NY	11/18/20 12:15	11/18/20
L2051312-05	S-16 (4-5)	SOIL	NEW ROCHELLE, NY	11/18/20 12:30	11/18/20
L2051312-06	S-17 (2-3)	SOIL	NEW ROCHELLE, NY	11/18/20 12:50	11/18/20
L2051312-07	S-18 (3-4)	SOIL	NEW ROCHELLE, NY	11/18/20 13:15	11/18/20
L2051312-08	TW-4	WATER	NEW ROCHELLE, NY	11/18/20 11:15	11/18/20
L2051312-09	TW-5	WATER	NEW ROCHELLE, NY	11/18/20 14:30	11/18/20
L2051312-10	FB	FIELD BLANK	NEW ROCHELLE, NY	11/18/20 13:40	11/18/20

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

### Case Narrative

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

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

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

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

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

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

---

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

### Case Narrative (continued)

#### Report Submission

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

#### Sample Receipt

L2051312-09: The collection time was obtained from the container labels.

#### Volatile Organics

L2051312-08: The pH of the sample was greater than two; however, the sample was analyzed within the method required holding time.

#### Semivolatile Organics

L2051312-06: The sample has elevated detection limits due to the dilution required by the sample matrix.

#### Perfluorinated Alkyl Acids by Isotope Dilution

L2051312-08, -09, WG1436362-1, and WG1436362-3: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2051312-08: The MeOH fraction of the extraction is reported for Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the Surrogates (Extracted Internal Standards).

#### Pesticides

L2051312-02: The surrogate recoveries are outside the acceptance criteria for decachlorobiphenyl (442%,3070%); however, the sample was not re-extracted due to coelution with obvious interferences.

#### Total Metals

L2051312-01 through -07: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

### Case Narrative (continued)

L2051312-08: The sample has elevated detection limits for all elements due to the prep dilution required by the sample matrix.

L2051312-08 and -09: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the high concentrations of target elements.

The WG1436842-3 MS recoveries for aluminum (628%), calcium (0%), iron (0%), lead (130%), magnesium (0%), and manganese (0%), performed on L2051312-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1436842-3 MS recovery, performed on L2051312-01, is outside the acceptance criteria for potassium (131%). A post digestion spike was performed and was within acceptance criteria.

The WG1436842-4 Laboratory Duplicate RPDs for arsenic (38%), cobalt (39%), lead (38%), nickel (28%), potassium (58%), and sodium (23%), performed on L2051312-01, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.


#### Dissolved Metals

L2051312-09: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the high concentrations of target elements.

The WG1436769-3 MS recoveries for calcium (70%), magnesium (70%), and sodium (0%), performed on L2051312-09, do not apply because the sample concentrations are greater than four times the spike amounts added.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 11/23/20

# ORGANICS

# VOLATILES

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-01  
**Client ID:** S-12 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 08:40  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/20/20 14:10  
**Analyst:** MKS  
**Percent Solids:** 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.6	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.92	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.3	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.6	0.77	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-01  
 Client ID: S-12 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 08:40  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.74	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.16	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.3	0.86	1
Acrylonitrile	ND		ug/kg	5.3	1.5	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-01  
 Client ID: S-12 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 08:40  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.51	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.6	1.9	1

**Tentatively Identified Compounds**

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-02  
**Client ID:** S-13 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:00  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/19/20 19:31  
**Analyst:** MV  
**Percent Solids:** 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-02  
 Client ID: S-13 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 09:00  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	ND		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.3	0.70	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1





**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-03  
 Client ID: S-14 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 09:10  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 11/19/20 17:23  
 Analyst: MV  
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.57	1
Vinyl chloride	ND		ug/kg	0.97	0.33	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-03  
**Client ID:** S-14 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:10  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	ND		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.2	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.12	1
o-Chlorotoluene	ND		ug/kg	1.9	0.19	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-04  
**Client ID:** S-15 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/19/20 17:49  
**Analyst:** MV  
**Percent Solids:** 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	3.9	0.92	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-04  
**Client ID:** S-15 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.49	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.99	0.29	1
Xylenes, Total	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.14	1
Dibromomethane	ND		ug/kg	2.0	0.23	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.90	1
Acetone	ND		ug/kg	9.9	4.7	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
Vinyl acetate	ND		ug/kg	9.9	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.12	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.49	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.98	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.17	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.11	1
Naphthalene	0.66	J	ug/kg	3.9	0.64	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-04  
**Client ID:** S-15 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	0.99	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	79	35.	1
p-Diethylbenzene	ND		ug/kg	2.0	0.17	1
p-Ethyltoluene	ND		ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	1.4	1

**Tentatively Identified Compounds**

Total TIC Compounds	2.12	J	ug/kg			1
Unknown	2.12	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-05  
**Client ID:** S-16 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/19/20 18:14  
**Analyst:** MV  
**Percent Solids:** 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-05  
 Client ID: S-16 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:30  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
Xylenes, Total	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.67	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-06  
 Client ID: S-17 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:50  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 11/19/20 18:40  
 Analyst: MV  
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-06  
 Client ID: S-17 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:50  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.74	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-06  
**Client ID:** S-17 (2-3)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:50  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	91	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

**Tentatively Identified Compounds**

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	103		70-130

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-07  
**Client ID:** S-18 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 13:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/19/20 19:06  
**Analyst:** MV  
**Percent Solids:** 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-07  
 Client ID: S-18 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 13:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.84	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-07  
**Client ID:** S-18 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 13:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

**Tentatively Identified Compounds**

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-08  
**Client ID:** TW-4  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 11:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/20/20 17:18  
**Analyst:** MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-08  
 Client ID: TW-4  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 11:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	8.1		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-08  
**Client ID:** TW-4  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 11:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

**Tentatively Identified Compounds**

Total TIC Compounds	6.08	J	ug/l		1
Nonanal	1.71	NJ	ug/l		1
Unknown	1.34	J	ug/l		1
Octanal	1.18	NJ	ug/l		1
Propene	1.85	NJ	ug/l		1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-09  
**Client ID:** TW-5  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 14:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 11/20/20 17:40  
**Analyst:** MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-09  
**Client ID:** TW-5  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 14:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.0		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-09  
**Client ID:** TW-5  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 14:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

**Tentatively Identified Compounds**

Total TIC Compounds	1.61	J	ug/l			1
Nonanal	1.61	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/19/20 13:31  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-07 Batch: WG1436501-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.64	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/19/20 13:31  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-07 Batch: WG1436501-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/19/20 13:31  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-07 Batch: WG1436501-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Tentatively Identified Compounds

Total TIC Compounds	4.08	J	ug/kg
Unknown	4.08	J	ug/kg

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/19/20 13:31  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-07 Batch: WG1436501-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/20 09:01  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1436858-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.71	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/20 09:01  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1436858-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	0.20	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
Analytical Date: 11/20/20 09:01  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1436858-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	0.42	J	ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

#### Tentatively Identified Compounds

No Tentatively Identified Compounds      ND      ug/kg

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/20 09:01  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1436858-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/20 10:22  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1436866-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/20 10:22  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1436866-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/20 10:22  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1436866-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/20/20 10:22  
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1436866-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	96		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-07 Batch: WG1436501-3 WG1436501-4								
Methylene chloride	90		88		70-130	2		30
1,1-Dichloroethane	90		90		70-130	0		30
Chloroform	91		90		70-130	1		30
Carbon tetrachloride	88		87		70-130	1		30
1,2-Dichloropropane	93		92		70-130	1		30
Dibromochloromethane	85		84		70-130	1		30
1,1,2-Trichloroethane	86		86		70-130	0		30
Tetrachloroethene	83		82		70-130	1		30
Chlorobenzene	88		88		70-130	0		30
Trichlorofluoromethane	83		83		70-139	0		30
1,2-Dichloroethane	90		89		70-130	1		30
1,1,1-Trichloroethane	90		89		70-130	1		30
Bromodichloromethane	90		89		70-130	1		30
trans-1,3-Dichloropropene	80		80		70-130	0		30
cis-1,3-Dichloropropene	91		90		70-130	1		30
1,1-Dichloropropene	91		90		70-130	1		30
Bromoform	85		86		70-130	1		30
1,1,2,2-Tetrachloroethane	84		84		70-130	0		30
Benzene	89		88		70-130	1		30
Toluene	87		87		70-130	0		30
Ethylbenzene	86		86		70-130	0		30
Chloromethane	82		79		52-130	4		30
Bromomethane	120		120		57-147	0		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-07 Batch: WG1436501-3 WG1436501-4								
Vinyl chloride	78		77		67-130	1		30
Chloroethane	87		89		50-151	2		30
1,1-Dichloroethene	87		86		65-135	1		30
trans-1,2-Dichloroethene	93		92		70-130	1		30
Trichloroethene	92		91		70-130	1		30
1,2-Dichlorobenzene	87		89		70-130	2		30
1,3-Dichlorobenzene	89		90		70-130	1		30
1,4-Dichlorobenzene	88		88		70-130	0		30
Methyl tert butyl ether	90		89		66-130	1		30
p/m-Xylene	89		89		70-130	0		30
o-Xylene	90		91		70-130	1		30
cis-1,2-Dichloroethene	96		96		70-130	0		30
Dibromomethane	97		95		70-130	2		30
Styrene	93		94		70-130	1		30
Dichlorodifluoromethane	76		75		30-146	1		30
Acetone	82		79		54-140	4		30
Carbon disulfide	77		77		59-130	0		30
2-Butanone	84		82		70-130	2		30
Vinyl acetate	89		87		70-130	2		30
4-Methyl-2-pentanone	78		74		70-130	5		30
1,2,3-Trichloropropane	85		86		68-130	1		30
2-Hexanone	75		73		70-130	3		30
Bromochloromethane	100		97		70-130	3		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-07 Batch: WG1436501-3 WG1436501-4								
2,2-Dichloropropane	87		86		70-130	1		30
1,2-Dibromoethane	91		90		70-130	1		30
1,3-Dichloropropane	86		85		69-130	1		30
1,1,1,2-Tetrachloroethane	85		84		70-130	1		30
Bromobenzene	85		86		70-130	1		30
n-Butylbenzene	89		90		70-130	1		30
sec-Butylbenzene	89		92		70-130	3		30
tert-Butylbenzene	87		90		70-130	3		30
o-Chlorotoluene	85		87		70-130	2		30
p-Chlorotoluene	85		88		70-130	3		30
1,2-Dibromo-3-chloropropane	81		81		68-130	0		30
Hexachlorobutadiene	78		80		67-130	3		30
Isopropylbenzene	88		91		70-130	3		30
p-Isopropyltoluene	89		91		70-130	2		30
Naphthalene	83		86		70-130	4		30
Acrylonitrile	95		93		70-130	2		30
n-Propylbenzene	87		90		70-130	3		30
1,2,3-Trichlorobenzene	84		85		70-130	1		30
1,2,4-Trichlorobenzene	84		86		70-130	2		30
1,3,5-Trimethylbenzene	87		89		70-130	2		30
1,2,4-Trimethylbenzene	88		90		70-130	2		30
1,4-Dioxane	99		99		65-136	0		30
p-Diethylbenzene	89		91		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-07 Batch: WG1436501-3 WG1436501-4								
p-Ethyltoluene	88		90		70-130	2		30
1,2,4,5-Tetramethylbenzene	86		87		70-130	1		30
Ethyl ether	90		88		67-130	2		30
trans-1,4-Dichloro-2-butene	87		90		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		95		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	98		102		70-130
Dibromofluoromethane	103		104		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1436858-3 WG1436858-4								
Methylene chloride	89		89		70-130	0		30
1,1-Dichloroethane	87		87		70-130	0		30
Chloroform	88		89		70-130	1		30
Carbon tetrachloride	88		88		70-130	0		30
1,2-Dichloropropane	88		89		70-130	1		30
Dibromochloromethane	81		81		70-130	0		30
1,1,2-Trichloroethane	82		83		70-130	1		30
Tetrachloroethene	85		83		70-130	2		30
Chlorobenzene	84		85		70-130	1		30
Trichlorofluoromethane	87		87		70-139	0		30
1,2-Dichloroethane	85		87		70-130	2		30
1,1,1-Trichloroethane	89		88		70-130	1		30
Bromodichloromethane	86		87		70-130	1		30
trans-1,3-Dichloropropene	77		78		70-130	1		30
cis-1,3-Dichloropropene	86		88		70-130	2		30
1,1-Dichloropropene	90		89		70-130	1		30
Bromoform	82		83		70-130	1		30
1,1,2,2-Tetrachloroethane	80		83		70-130	4		30
Benzene	87		87		70-130	0		30
Toluene	84		84		70-130	0		30
Ethylbenzene	84		84		70-130	0		30
Chloromethane	77		73		52-130	5		30
Bromomethane	127		129		57-147	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1436858-3 WG1436858-4								
Vinyl chloride	81		76		67-130	6		30
Chloroethane	86		83		50-151	4		30
1,1-Dichloroethene	91		91		65-135	0		30
trans-1,2-Dichloroethene	94		92		70-130	2		30
Trichloroethene	92		91		70-130	1		30
1,2-Dichlorobenzene	82		84		70-130	2		30
1,3-Dichlorobenzene	86		86		70-130	0		30
1,4-Dichlorobenzene	84		86		70-130	2		30
Methyl tert butyl ether	87		89		66-130	2		30
p/m-Xylene	87		87		70-130	0		30
o-Xylene	87		87		70-130	0		30
cis-1,2-Dichloroethene	94		94		70-130	0		30
Dibromomethane	93		95		70-130	2		30
Styrene	90		90		70-130	0		30
Dichlorodifluoromethane	76		75		30-146	1		30
Acetone	79		80		54-140	1		30
Carbon disulfide	80		78		59-130	3		30
2-Butanone	88		72		70-130	20		30
Vinyl acetate	83		86		70-130	4		30
4-Methyl-2-pentanone	73		73		70-130	0		30
1,2,3-Trichloropropane	80		81		68-130	1		30
2-Hexanone	70		70		70-130	0		30
Bromochloromethane	96		96		70-130	0		30



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1436858-3 WG1436858-4								
2,2-Dichloropropane	86		87		70-130	1		30
1,2-Dibromoethane	86		87		70-130	1		30
1,3-Dichloropropane	81		82		69-130	1		30
1,1,1,2-Tetrachloroethane	80		82		70-130	2		30
Bromobenzene	82		83		70-130	1		30
n-Butylbenzene	87		88		70-130	1		30
sec-Butylbenzene	88		88		70-130	0		30
tert-Butylbenzene	86		86		70-130	0		30
o-Chlorotoluene	70		69	Q	70-130	1		30
p-Chlorotoluene	84		84		70-130	0		30
1,2-Dibromo-3-chloropropane	76		78		68-130	3		30
Hexachlorobutadiene	78		80		67-130	3		30
Isopropylbenzene	87		87		70-130	0		30
p-Isopropyltoluene	86		87		70-130	1		30
Naphthalene	81		83		70-130	2		30
Acrylonitrile	88		95		70-130	8		30
n-Propylbenzene	86		86		70-130	0		30
1,2,3-Trichlorobenzene	80		82		70-130	2		30
1,2,4-Trichlorobenzene	83		84		70-130	1		30
1,3,5-Trimethylbenzene	85		85		70-130	0		30
1,2,4-Trimethylbenzene	85		86		70-130	1		30
1,4-Dioxane	107		100		65-136	7		30
p-Diethylbenzene	87		88		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1436858-3 WG1436858-4								
p-Ethyltoluene	86		87		70-130	1		30
1,2,4,5-Tetramethylbenzene	82		84		70-130	2		30
Ethyl ether	91		90		67-130	1		30
trans-1,4-Dichloro-2-butene	83		88		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		96		70-130
Toluene-d8	96		97		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	105		107		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1436866-3 WG1436866-4									
Methylene chloride	96		96		70-130		0		20
1,1-Dichloroethane	95		100		70-130		5		20
Chloroform	94		100		70-130		6		20
Carbon tetrachloride	92		95		63-132		3		20
1,2-Dichloropropane	94		97		70-130		3		20
Dibromochloromethane	85		93		63-130		9		20
1,1,2-Trichloroethane	90		100		70-130		11		20
Tetrachloroethene	94		95		70-130		1		20
Chlorobenzene	99		100		75-130		1		20
Trichlorofluoromethane	100		100		62-150		0		20
1,2-Dichloroethane	89		97		70-130		9		20
1,1,1-Trichloroethane	92		98		67-130		6		20
Bromodichloromethane	90		96		67-130		6		20
trans-1,3-Dichloropropene	86		98		70-130		13		20
cis-1,3-Dichloropropene	85		93		70-130		9		20
1,1-Dichloropropene	95		98		70-130		3		20
Bromoform	85		92		54-136		8		20
1,1,2,2-Tetrachloroethane	89		96		67-130		8		20
Benzene	94		100		70-130		6		20
Toluene	100		100		70-130		0		20
Ethylbenzene	100		100		70-130		0		20
Chloromethane	100		100		64-130		0		20
Bromomethane	92		98		39-139		6		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1436866-3 WG1436866-4								
Vinyl chloride	100		100		55-140	0		20
Chloroethane	110		120		55-138	9		20
1,1-Dichloroethene	93		96		61-145	3		20
trans-1,2-Dichloroethene	99		100		70-130	1		20
Trichloroethene	93		96		70-130	3		20
1,2-Dichlorobenzene	95		98		70-130	3		20
1,3-Dichlorobenzene	97		100		70-130	3		20
1,4-Dichlorobenzene	93		97		70-130	4		20
Methyl tert butyl ether	87		96		63-130	10		20
p/m-Xylene	105		110		70-130	5		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	88		93		70-130	6		20
Dibromomethane	85		94		70-130	10		20
1,2,3-Trichloropropane	90		96		64-130	6		20
Acrylonitrile	94		95		70-130	1		20
Styrene	105		110		70-130	5		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	96		94		58-148	2		20
Carbon disulfide	96		100		51-130	4		20
2-Butanone	94		100		63-138	6		20
Vinyl acetate	82		87		70-130	6		20
4-Methyl-2-pentanone	79		83		59-130	5		20
2-Hexanone	76		81		57-130	6		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1436866-3 WG1436866-4								
Bromochloromethane	89		98		70-130	10		20
2,2-Dichloropropane	100		110		63-133	10		20
1,2-Dibromoethane	88		94		70-130	7		20
1,3-Dichloropropane	93		98		70-130	5		20
1,1,1,2-Tetrachloroethane	94		97		64-130	3		20
Bromobenzene	97		100		70-130	3		20
n-Butylbenzene	98		100		53-136	2		20
sec-Butylbenzene	95		99		70-130	4		20
tert-Butylbenzene	85		90		70-130	6		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	100		110		70-130	10		20
1,2-Dibromo-3-chloropropane	67		68		41-144	1		20
Hexachlorobutadiene	98		94		63-130	4		20
Isopropylbenzene	100		110		70-130	10		20
p-Isopropyltoluene	99		100		70-130	1		20
Naphthalene	63	Q	62	Q	70-130	2		20
n-Propylbenzene	100		110		69-130	10		20
1,2,3-Trichlorobenzene	66	Q	69	Q	70-130	4		20
1,2,4-Trichlorobenzene	74		79		70-130	7		20
1,3,5-Trimethylbenzene	100		110		64-130	10		20
1,2,4-Trimethylbenzene	100		110		70-130	10		20
1,4-Dioxane	84		78		56-162	7		20
p-Diethylbenzene	96		100		70-130	4		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1436866-3 WG1436866-4								
p-Ethyltoluene	100		110		70-130	10		20
1,2,4,5-Tetramethylbenzene	90		95		70-130	5		20
Ethyl ether	99		100		59-134	1		20
trans-1,4-Dichloro-2-butene	90		100		70-130	11		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	96		92		70-130
Toluene-d8	103		101		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	92		90		70-130

# SEMIVOLATILES

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-01  
**Client ID:** S-12 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 08:40  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 11/20/20 09:45  
**Analyst:** JG  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	32	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	4000		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	120	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	110	J	ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-01  
 Client ID: S-12 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 08:40  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	2100		ug/kg	110	21.	1
Benzo(a)pyrene	2500		ug/kg	150	45.	1
Benzo(b)fluoranthene	2900		ug/kg	110	31.	1
Benzo(k)fluoranthene	930		ug/kg	110	29.	1
Chrysene	2500		ug/kg	110	19.	1
Acenaphthylene	630		ug/kg	150	28.	1
Anthracene	460		ug/kg	110	36.	1
Benzo(ghi)perylene	1400		ug/kg	150	22.	1
Fluorene	74	J	ug/kg	180	18.	1
Phenanthrene	2400		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	370		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	1400		ug/kg	150	26.	1
Pyrene	4000		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	140	J	ug/kg	180	17.	1
2-Methylnaphthalene	38	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	31	J	ug/kg	260	29.	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-01  
 Client ID: S-12 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 08:40  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	180		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	28	8.5	1

**Tentatively Identified Compounds**

Total TIC Compounds	9080	J	ug/kg			1
Unknown PAH	670	J	ug/kg			1
Unknown	680	J	ug/kg			1
Unknown	288	J	ug/kg			1
Unknown	798	J	ug/kg			1
Unknown PAH	290	J	ug/kg			1
Unknown PAH	401	J	ug/kg			1
Unknown Ketone	373	J	ug/kg			1
Unknown	462	J	ug/kg			1
Unknown PAH	504	J	ug/kg			1
Unknown PAH	838	J	ug/kg			1
Unknown PAH	1880	J	ug/kg			1
Unknown Ketone	349	J	ug/kg			1
Unknown	533	J	ug/kg			1
Unknown	498	J	ug/kg			1
Unknown PAH	511	J	ug/kg			1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-01  
 Client ID: S-12 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 08:40  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	73		18-120

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-01  
**Client ID:** S-12 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 08:40  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/21/20 04:21  
**Analyst:** SG  
**Percent Solids:** 89%

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/19/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.524	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.524	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.524	0.041	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.524	0.055	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.524	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.524	0.064	1
Perfluorooctanoic Acid (PFOA)	0.087	JF	ug/kg	0.524	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.524	0.188	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.524	0.143	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.524	0.079	1
Perfluorooctanesulfonic Acid (PFOS)	0.946	F	ug/kg	0.524	0.136	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.524	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.524	0.301	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.524	0.211	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.524	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.524	0.160	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.524	0.103	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.524	0.089	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.524	0.073	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.524	0.214	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.524	0.057	1
PFOA/PFOS, Total	1.03	J	ug/kg	0.524	0.044	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-01  
 Client ID: S-12 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 08:40  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	82		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	92		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	107		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	81		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	78		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	130		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	69		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	42		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	61		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		26-160

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-02  
**Client ID:** S-13 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:00  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/21/20 04:55  
**Analyst:** SG  
**Percent Solids:** 91%

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/19/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.488	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.488	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.488	0.038	1
Perfluorohexanoic Acid (PFHxA)	0.084	J	ug/kg	0.488	0.051	1
Perfluoroheptanoic Acid (PFHpA)	0.052	J	ug/kg	0.488	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	0.696		ug/kg	0.488	0.059	1
Perfluorooctanoic Acid (PFOA)	0.308	JF	ug/kg	0.488	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.488	0.175	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.488	0.133	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.488	0.073	1
Perfluorooctanesulfonic Acid (PFOS)	3.47	F	ug/kg	0.488	0.127	1
Perfluorodecanoic Acid (PFDA)	0.096	J	ug/kg	0.488	0.065	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.488	0.280	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.488	0.197	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.488	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.488	0.149	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.488	0.096	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.488	0.083	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.488	0.068	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.488	0.200	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.488	0.053	1
PFOA/PFOS, Total	3.78	J	ug/kg	0.488	0.041	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-02  
**Client ID:** S-13 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:00  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	132		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	159		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	90		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	15		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		26-160

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-02 D2  
 Client ID: S-13 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 09:00  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 11/23/20 13:38  
 Analyst: WR  
 Percent Solids: 91%

Extraction Method: EPA 3546  
 Extraction Date: 11/19/20 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	67000		ug/kg	2700	520	25
Phenanthrene	66000		ug/kg	2700	550	25
Pyrene	63000		ug/kg	2700	450	25



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-02 D  
 Client ID: S-13 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 09:00  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 11/23/20 12:36  
 Analyst: WR  
 Percent Solids: 91%

Extraction Method: EPA 3546  
 Extraction Date: 11/19/20 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	2300		ug/kg	730	94.	5
1,2,4-Trichlorobenzene	ND		ug/kg	910	100	5
Hexachlorobenzene	ND		ug/kg	540	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	820	120	5
2-Chloronaphthalene	ND		ug/kg	910	90.	5
1,2-Dichlorobenzene	ND		ug/kg	910	160	5
1,3-Dichlorobenzene	ND		ug/kg	910	160	5
1,4-Dichlorobenzene	ND		ug/kg	910	160	5
3,3'-Dichlorobenzidine	ND		ug/kg	910	240	5
2,4-Dinitrotoluene	ND		ug/kg	910	180	5
2,6-Dinitrotoluene	ND		ug/kg	910	160	5
Fluoranthene	46000	E	ug/kg	540	100	5
4-Chlorophenyl phenyl ether	ND		ug/kg	910	97.	5
4-Bromophenyl phenyl ether	ND		ug/kg	910	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	980	91.	5
Hexachlorobutadiene	ND		ug/kg	910	130	5
Hexachlorocyclopentadiene	ND		ug/kg	2600	820	5
Hexachloroethane	ND		ug/kg	730	150	5
Isophorone	ND		ug/kg	820	120	5
Naphthalene	4000		ug/kg	910	110	5
Nitrobenzene	ND		ug/kg	820	130	5
NDPA/DPA	ND		ug/kg	730	100	5
n-Nitrosodi-n-propylamine	ND		ug/kg	910	140	5
Bis(2-ethylhexyl)phthalate	1500		ug/kg	910	310	5
Butyl benzyl phthalate	ND		ug/kg	910	230	5
Di-n-butylphthalate	ND		ug/kg	910	170	5
Di-n-octylphthalate	ND		ug/kg	910	310	5

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-02 D

Date Collected: 11/18/20 09:00

Client ID: S-13 (5-6)

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	910	84.	5
Dimethyl phthalate	ND		ug/kg	910	190	5
Benzo(a)anthracene	30000		ug/kg	540	100	5
Benzo(a)pyrene	24000		ug/kg	730	220	5
Benzo(b)fluoranthene	28000		ug/kg	540	150	5
Benzo(k)fluoranthene	9600		ug/kg	540	140	5
Chrysene	26000		ug/kg	540	94.	5
Acenaphthylene	6800		ug/kg	730	140	5
Anthracene	12000		ug/kg	540	180	5
Benzo(ghi)perylene	14000		ug/kg	730	110	5
Fluorene	7000		ug/kg	910	88.	5
Phenanthrene	47000	E	ug/kg	540	110	5
Dibenzo(a,h)anthracene	4100		ug/kg	540	100	5
Indeno(1,2,3-cd)pyrene	14000		ug/kg	730	130	5
Pyrene	44000	E	ug/kg	540	90.	5
Biphenyl	750	J	ug/kg	2100	210	5
4-Chloroaniline	ND		ug/kg	910	160	5
2-Nitroaniline	ND		ug/kg	910	180	5
3-Nitroaniline	ND		ug/kg	910	170	5
4-Nitroaniline	ND		ug/kg	910	380	5
Dibenzofuran	4000		ug/kg	910	86.	5
2-Methylnaphthalene	1800		ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	910	95.	5
Acetophenone	ND		ug/kg	910	110	5
2,4,6-Trichlorophenol	ND		ug/kg	540	170	5
p-Chloro-m-cresol	ND		ug/kg	910	140	5
2-Chlorophenol	ND		ug/kg	910	110	5
2,4-Dichlorophenol	ND		ug/kg	820	140	5
2,4-Dimethylphenol	ND		ug/kg	910	300	5
2-Nitrophenol	ND		ug/kg	2000	340	5
4-Nitrophenol	ND		ug/kg	1300	370	5
2,4-Dinitrophenol	ND		ug/kg	4400	420	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	440	5
Pentachlorophenol	ND		ug/kg	730	200	5
Phenol	280	J	ug/kg	910	140	5
2-Methylphenol	ND		ug/kg	910	140	5
3-Methylphenol/4-Methylphenol	470	J	ug/kg	1300	140	5

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-02 D  
 Client ID: S-13 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 09:00  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
2,4,5-Trichlorophenol	ND		ug/kg	910	170	5
Benzoic Acid	ND		ug/kg	2900	920	5
Benzyl Alcohol	ND		ug/kg	910	280	5
Carbazole	5600		ug/kg	910	88.	5
1,4-Dioxane	ND		ug/kg	140	42.	5

**Tentatively Identified Compounds**

Total TIC Compounds	135000	J	ug/kg			5
Unknown	4680	J	ug/kg			5
Unknown	12200	J	ug/kg			5
Unknown PAH	5670	J	ug/kg			5
Unknown PAH	9420	J	ug/kg			5
Unknown	7320	J	ug/kg			5
Unknown	11200	J	ug/kg			5
Unknown Azole	7160	J	ug/kg			5
Unknown PAH	7070	J	ug/kg			5
Unknown PAH	11600	J	ug/kg			5
Unknown PAH	7890	J	ug/kg			5
Unknown	5040	J	ug/kg			5
Unknown PAH	5970	J	ug/kg			5
Unknown PAH	13900	J	ug/kg			5
Unknown	15500	J	ug/kg			5
Unknown PAH	10200	J	ug/kg			5

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-02 D  
 Client ID: S-13 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 09:00  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	92		18-120

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-03  
**Client ID:** S-14 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:10  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 11/20/20 07:45  
**Analyst:** JG  
**Percent Solids:** 94%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	260		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-03  
 Client ID: S-14 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 09:10  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	140		ug/kg	100	20.	1
Benzo(a)pyrene	160		ug/kg	140	43.	1
Benzo(b)fluoranthene	190		ug/kg	100	30.	1
Benzo(k)fluoranthene	68	J	ug/kg	100	28.	1
Chrysene	160		ug/kg	100	18.	1
Acenaphthylene	37	J	ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	97	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	140		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	24	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	99	J	ug/kg	140	24.	1
Pyrene	250		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-03  
**Client ID:** S-14 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:10  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	17	J	ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	79		18-120

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-03  
**Client ID:** S-14 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:10  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/21/20 05:28  
**Analyst:** SG  
**Percent Solids:** 94%

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/19/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.505	0.023	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.505	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.505	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.505	0.053	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.505	0.046	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.505	0.061	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.505	0.042	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.505	0.181	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.505	0.138	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.505	0.076	1
Perfluorooctanesulfonic Acid (PFOS)	0.781	F	ug/kg	0.505	0.131	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.505	0.068	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.505	0.290	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.505	0.204	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.505	0.047	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.505	0.154	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.505	0.099	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.505	0.085	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.505	0.071	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.505	0.206	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.505	0.055	1
PFOA/PFOS, Total	0.781		ug/kg	0.505	0.042	1



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-03  
 Client ID: S-14 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 09:10  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	83		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	99		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	83		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	84		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	116		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	51		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	54		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	58		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	70		26-160

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-04  
**Client ID:** S-15 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 11/20/20 09:21  
**Analyst:** JG  
**Percent Solids:** 90%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	270		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	9800	E	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	210		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	10000	E	ug/kg	180	62.	1
Butyl benzyl phthalate	3700		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-04  
 Client ID: S-15 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	6200		ug/kg	110	20.	1
Benzo(a)pyrene	7000		ug/kg	140	44.	1
Benzo(b)fluoranthene	8000	E	ug/kg	110	30.	1
Benzo(k)fluoranthene	2800		ug/kg	110	29.	1
Chrysene	6600		ug/kg	110	19.	1
Acenaphthylene	800		ug/kg	140	28.	1
Anthracene	1200		ug/kg	110	35.	1
Benzo(ghi)perylene	3600		ug/kg	140	21.	1
Fluorene	290		ug/kg	180	17.	1
Phenanthrene	6000		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	1000		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	3900		ug/kg	140	25.	1
Pyrene	10000	E	ug/kg	110	18.	1
Biphenyl	42	J	ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	200		ug/kg	180	17.	1
2-Methylnaphthalene	140	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	33	J	ug/kg	260	28.	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-04  
**Client ID:** S-15 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	580		ug/kg	180	17.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

**Tentatively Identified Compounds**

Total TIC Compounds	28500	J	ug/kg			1
Unknown PAH	1820	J	ug/kg			1
Unknown PAH	793	J	ug/kg			1
Unknown PAH	1540	J	ug/kg			1
Unknown PAH	2460	J	ug/kg			1
Unknown PAH	1910	J	ug/kg			1
Unknown	1820	J	ug/kg			1
Unknown	2820	J	ug/kg			1
Unknown PAH	757	J	ug/kg			1
Unknown	1380	J	ug/kg			1
Unknown	1090	J	ug/kg			1
Unknown PAH	1210	J	ug/kg			1
Unknown PAH	2390	J	ug/kg			1
Unknown PAH	5790	J	ug/kg			1
Unknown	2020	J	ug/kg			1
Unknown PAH	664	J	ug/kg			1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-04  
 Client ID: S-15 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	76		18-120

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-04  
**Client ID:** S-15 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/21/20 05:44  
**Analyst:** SG  
**Percent Solids:** 90%

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/19/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.493	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.493	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.493	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.493	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.493	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.493	0.060	1
Perfluorooctanoic Acid (PFOA)	0.073	JF	ug/kg	0.493	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.493	0.177	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.493	0.135	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.493	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	2.24	F	ug/kg	0.493	0.128	1
Perfluorodecanoic Acid (PFDA)	0.114	J	ug/kg	0.493	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.493	0.283	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.493	0.199	1
Perfluoroundecanoic Acid (PFUnA)	0.051	J	ug/kg	0.493	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.493	0.151	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.493	0.097	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.493	0.083	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.493	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.493	0.202	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.493	0.053	1
PFOA/PFOS, Total	2.31	J	ug/kg	0.493	0.041	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-04  
**Client ID:** S-15 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	95		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	127		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	150		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	78		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	55		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	70		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	70		26-160

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-04 D  
 Client ID: S-15 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 11/20/20 14:14  
 Analyst: JG  
 Percent Solids: 90%

Extraction Method: EPA 3546  
 Extraction Date: 11/19/20 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Fluoranthene	12000		ug/kg	220	41.	2
Bis(2-ethylhexyl)phthalate	9700		ug/kg	360	120	2
Benzo(b)fluoranthene	7600		ug/kg	220	61.	2
Pyrene	12000		ug/kg	220	36.	2



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-05  
 Client ID: S-16 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:30  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 11/20/20 10:57  
 Analyst: JG  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 11/19/20 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	440		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	220		ug/kg	190	65.	1
Butyl benzyl phthalate	130	J	ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-05  
 Client ID: S-16 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:30  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	380		ug/kg	110	21.	1
Benzo(a)pyrene	580		ug/kg	150	46.	1
Benzo(b)fluoranthene	600		ug/kg	110	32.	1
Benzo(k)fluoranthene	180		ug/kg	110	30.	1
Chrysene	440		ug/kg	110	19.	1
Acenaphthylene	40	J	ug/kg	150	29.	1
Anthracene	47	J	ug/kg	110	36.	1
Benzo(ghi)perylene	350		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	180		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	84	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	330		ug/kg	150	26.	1
Pyrene	570		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-05  
**Client ID:** S-16 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	30	J	ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

**Tentatively Identified Compounds**

Total TIC Compounds	587	J	ug/kg			1
Unknown Organic Acid	587	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	68		18-120

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-05  
**Client ID:** S-16 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/21/20 06:01  
**Analyst:** SG  
**Percent Solids:** 89%

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/19/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.494	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.494	0.046	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.494	0.039	1
Perfluorohexanoic Acid (PFHxA)	0.057	J	ug/kg	0.494	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.494	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.494	0.060	1
Perfluorooctanoic Acid (PFOA)	0.050	JF	ug/kg	0.494	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.494	0.178	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.494	0.135	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.494	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	1.11	F	ug/kg	0.494	0.128	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.494	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.494	0.284	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.494	0.199	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.494	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.494	0.151	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.494	0.097	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.494	0.084	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.494	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.494	0.202	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.494	0.053	1
PFOA/PFOS, Total	1.16	J	ug/kg	0.494	0.041	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-05  
**Client ID:** S-16 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	98		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	135		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	165		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	80		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	104		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	57		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	74		26-160

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-06  
**Client ID:** S-17 (2-3)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:50  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/21/20 06:17  
**Analyst:** SG  
**Percent Solids:** 84%

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/19/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.529	0.024	1
Perfluoropentanoic Acid (PFPeA)	0.142	J	ug/kg	0.529	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.529	0.041	1
Perfluorohexanoic Acid (PFHxA)	0.134	JF	ug/kg	0.529	0.056	1
Perfluoroheptanoic Acid (PFHpA)	0.077	J	ug/kg	0.529	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.529	0.064	1
Perfluorooctanoic Acid (PFOA)	0.198	JF	ug/kg	0.529	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.529	0.190	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.529	0.144	1
Perfluorononanoic Acid (PFNA)	0.100	J	ug/kg	0.529	0.079	1
Perfluorooctanesulfonic Acid (PFOS)	2.12	F	ug/kg	0.529	0.138	1
Perfluorodecanoic Acid (PFDA)	0.146	J	ug/kg	0.529	0.071	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.529	0.304	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.529	0.213	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.529	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.529	0.162	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.529	0.104	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.160	JF	ug/kg	0.529	0.089	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.529	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.529	0.216	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.529	0.057	1
PFOA/PFOS, Total	2.32	J	ug/kg	0.529	0.044	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-06  
**Client ID:** S-17 (2-3)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:50  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	118		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	153		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	56		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	64		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	68		26-160

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-06 D  
 Client ID: S-17 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:50  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 11/23/20 13:20  
 Analyst: WR  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 11/19/20 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	780	100	5
1,2,4-Trichlorobenzene	ND		ug/kg	970	110	5
Hexachlorobenzene	ND		ug/kg	580	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	870	130	5
2-Chloronaphthalene	ND		ug/kg	970	96.	5
1,2-Dichlorobenzene	ND		ug/kg	970	170	5
1,3-Dichlorobenzene	ND		ug/kg	970	170	5
1,4-Dichlorobenzene	ND		ug/kg	970	170	5
3,3'-Dichlorobenzidine	ND		ug/kg	970	260	5
2,4-Dinitrotoluene	ND		ug/kg	970	190	5
2,6-Dinitrotoluene	ND		ug/kg	970	170	5
Fluoranthene	1400		ug/kg	580	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	970	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	970	150	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	97.	5
Hexachlorobutadiene	ND		ug/kg	970	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2800	880	5
Hexachloroethane	ND		ug/kg	780	160	5
Isophorone	ND		ug/kg	870	120	5
Naphthalene	ND		ug/kg	970	120	5
Nitrobenzene	ND		ug/kg	870	140	5
NDPA/DPA	ND		ug/kg	780	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	970	150	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	970	340	5
Butyl benzyl phthalate	310	J	ug/kg	970	240	5
Di-n-butylphthalate	ND		ug/kg	970	180	5
Di-n-octylphthalate	ND		ug/kg	970	330	5



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-06 D

Date Collected: 11/18/20 12:50

Client ID: S-17 (2-3)

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	970	90.	5
Dimethyl phthalate	ND		ug/kg	970	200	5
Benzo(a)anthracene	840		ug/kg	580	110	5
Benzo(a)pyrene	860		ug/kg	780	240	5
Benzo(b)fluoranthene	950		ug/kg	580	160	5
Benzo(k)fluoranthene	410	J	ug/kg	580	160	5
Chrysene	780		ug/kg	580	100	5
Acenaphthylene	ND		ug/kg	780	150	5
Anthracene	ND		ug/kg	580	190	5
Benzo(ghi)perylene	640	J	ug/kg	780	110	5
Fluorene	ND		ug/kg	970	94.	5
Phenanthrene	630		ug/kg	580	120	5
Dibenzo(a,h)anthracene	130	J	ug/kg	580	110	5
Indeno(1,2,3-cd)pyrene	580	J	ug/kg	780	140	5
Pyrene	1500		ug/kg	580	96.	5
Biphenyl	ND		ug/kg	2200	220	5
4-Chloroaniline	ND		ug/kg	970	180	5
2-Nitroaniline	ND		ug/kg	970	190	5
3-Nitroaniline	ND		ug/kg	970	180	5
4-Nitroaniline	ND		ug/kg	970	400	5
Dibenzofuran	ND		ug/kg	970	92.	5
2-Methylnaphthalene	ND		ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	970	100	5
Acetophenone	ND		ug/kg	970	120	5
2,4,6-Trichlorophenol	ND		ug/kg	580	180	5
p-Chloro-m-cresol	ND		ug/kg	970	140	5
2-Chlorophenol	ND		ug/kg	970	110	5
2,4-Dichlorophenol	ND		ug/kg	870	160	5
2,4-Dimethylphenol	ND		ug/kg	970	320	5
2-Nitrophenol	ND		ug/kg	2100	360	5
4-Nitrophenol	ND		ug/kg	1400	400	5
2,4-Dinitrophenol	ND		ug/kg	4600	450	5
4,6-Dinitro-o-cresol	ND		ug/kg	2500	460	5
Pentachlorophenol	ND		ug/kg	780	210	5
Phenol	ND		ug/kg	970	150	5
2-Methylphenol	ND		ug/kg	970	150	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	150	5

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-06 D  
 Client ID: S-17 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:50  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
2,4,5-Trichlorophenol	ND		ug/kg	970	180	5
Benzoic Acid	ND		ug/kg	3100	980	5
Benzyl Alcohol	ND		ug/kg	970	300	5
Carbazole	ND		ug/kg	970	94.	5
1,4-Dioxane	ND		ug/kg	140	45.	5

**Tentatively Identified Compounds**

No Tentatively Identified Compounds	ND	ug/kg	5
-------------------------------------	----	-------	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	32		10-136
4-Terphenyl-d14	78		18-120

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-07  
**Client ID:** S-18 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 13:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 11/20/20 11:21  
**Analyst:** JG  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 10:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	1500		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	30	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	290		ug/kg	200	68.	1
Butyl benzyl phthalate	3600		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-07  
**Client ID:** S-18 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 13:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	1500		ug/kg	120	22.	1
Benzo(a)pyrene	1200		ug/kg	160	48.	1
Benzo(b)fluoranthene	1500		ug/kg	120	33.	1
Benzo(k)fluoranthene	520		ug/kg	120	32.	1
Chrysene	1800		ug/kg	120	20.	1
Acenaphthylene	180		ug/kg	160	30.	1
Anthracene	190		ug/kg	120	38.	1
Benzo(ghi)perylene	830		ug/kg	160	23.	1
Fluorene	36	J	ug/kg	200	19.	1
Phenanthrene	620		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	240		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	750		ug/kg	160	28.	1
Pyrene	2200		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-07  
 Client ID: S-18 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 13:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	53	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

**Tentatively Identified Compounds**

Total TIC Compounds	6230	J	ug/kg			1
Unknown	240	J	ug/kg			1
Unknown PAH	409	J	ug/kg			1
Unknown	568	J	ug/kg			1
Unknown Phenol	268	J	ug/kg			1
Unknown	533	J	ug/kg			1
Unknown Ketone	232	J	ug/kg			1
Unknown Ketone	350	J	ug/kg			1
Unknown PAH	1260	J	ug/kg			1
Unknown Thiophene	244	J	ug/kg			1
Unknown	291	J	ug/kg			1
Unknown PAH	251	J	ug/kg			1
Unknown PAH	428	J	ug/kg			1
Unknown PAH	611	J	ug/kg			1
Unknown PAH	235	J	ug/kg			1
Unknown PAH	305	J	ug/kg			1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-07  
 Client ID: S-18 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 13:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	79		18-120

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-07  
**Client ID:** S-18 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 13:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/21/20 06:34  
**Analyst:** SG  
**Percent Solids:** 83%

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/19/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.535	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.535	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.535	0.042	1
Perfluorohexanoic Acid (PFHxA)	0.057	J	ug/kg	0.535	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.535	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.535	0.065	1
Perfluorooctanoic Acid (PFOA)	0.055	JF	ug/kg	0.535	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.535	0.192	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.535	0.146	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.535	0.080	1
Perfluorooctanesulfonic Acid (PFOS)	0.320	JF	ug/kg	0.535	0.139	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.535	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.535	0.307	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.535	0.216	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.535	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.535	0.164	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.535	0.105	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.535	0.091	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.535	0.075	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.535	0.219	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.535	0.058	1
PFOA/PFOS, Total	0.375	J	ug/kg	0.535	0.045	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-07  
 Client ID: S-18 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 13:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	137		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	154		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	58		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	82		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	103		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		26-160



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-08  
**Client ID:** TW-4  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 11:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 1,8270D  
**Analytical Date:** 11/20/20 11:40  
**Analyst:** JG

**Extraction Method:** EPA 3510C  
**Extraction Date:** 11/19/20 11:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	0.62	J	ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-08  
**Client ID:** TW-4  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 11:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	6.2		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-08  
**Client ID:** TW-4  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 11:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

## Tentatively Identified Compounds

Total TIC Compounds	263	J	ug/l			1
Unknown Azole	5.20	J	ug/l			1
Unknown Alkane	6.00	J	ug/l			1
Unknown Organic Acid	12.6	J	ug/l			1
Unknown	8.22	J	ug/l			1
Unknown Organic Acid	6.80	J	ug/l			1
Unknown Phenol	7.56	J	ug/l			1
Unknown	8.25	J	ug/l			1
Unknown	18.5	J	ug/l			1
Unknown Organic Acid	9.49	J	ug/l			1
Unknown Organic Acid	37.3	J	ug/l			1
Unknown	7.56	J	ug/l			1
Unknown Benzene	5.27	J	ug/l			1
Unknown Alkane	5.64	J	ug/l			1
Unknown Organic Acid	115	J	ug/l			1
Unknown Organic Acid	9.74	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	68		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	86		41-149

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-08  
 Client ID: TW-4  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 11:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 11/20/20 13:03  
 Analyst: DV

Extraction Method: EPA 3510C  
 Extraction Date: 11/19/20 11:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	0.04	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.06	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.20		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.04	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.02	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.06	J	ug/l	0.10	0.01	1
Fluorene	0.04	J	ug/l	0.10	0.01	1
Phenanthrene	0.07	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.03	J	ug/l	0.10	0.01	1
Pyrene	0.09	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.70		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-08  
 Client ID: TW-4  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 11:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	137	Q	10-120
4-Terphenyl-d14	93		41-149

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-08  
 Client ID: TW-4  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 11:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 11/21/20 02:15  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 11/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	150	33.9	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			51		15-110	



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-08  
**Client ID:** TW-4  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 11:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/20/20 22:50  
**Analyst:** SG

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/19/20 21:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	10.6		ng/l	2.39	0.488	1
Perfluoropentanoic Acid (PFPeA)	13.7		ng/l	2.39	0.474	1
Perfluorobutanesulfonic Acid (PFBS)	7.88		ng/l	2.39	0.285	1
Perfluorohexanoic Acid (PFHxA)	9.55		ng/l	2.39	0.393	1
Perfluoroheptanoic Acid (PFHpA)	6.14		ng/l	2.39	0.270	1
Perfluorohexanesulfonic Acid (PFHxS)	2.77		ng/l	2.39	0.450	1
Perfluorooctanoic Acid (PFOA)	14.6	F	ng/l	2.39	0.282	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.39	1.59	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.39	0.824	1
Perfluorononanoic Acid (PFNA)	2.52		ng/l	2.39	0.374	1
Perfluorooctanesulfonic Acid (PFOS)	24.3	F	ng/l	2.39	0.603	1
Perfluorodecanoic Acid (PFDA)	0.948	J	ng/l	2.39	0.364	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.39	1.45	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.39	0.776	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.39	0.311	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.39	1.17	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.39	0.963	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.39	0.445	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.39	0.392	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.39	0.297	1
PFOA/PFOS, Total	38.9		ng/l	2.39	0.282	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-08  
 Client ID: TW-4  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 11:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	110		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	127		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	226		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	<b>228</b>	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	71		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		40-144
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	77		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	65		33-143



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-08  
 Client ID: TW-4  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 11:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Water  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 11/22/20 12:45  
 Analyst: RS

Extraction Method: ALPHA 23528  
 Extraction Date: 11/19/20 21:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.39	0.694	1
-----------------------------------	----	--	------	------	-------	---

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
---	------------	-----------	---------------------

Perfluoro[13C8]Octanesulfonamide (M8FOSA)	78		1-87
---	----	--	------

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-09  
**Client ID:** TW-5  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 14:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 1,8270D  
**Analytical Date:** 11/20/20 12:03  
**Analyst:** JG

**Extraction Method:** EPA 3510C  
**Extraction Date:** 11/19/20 11:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.3	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-09  
**Client ID:** TW-5  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 14:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	0.72	J	ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-09  
 Client ID: TW-5  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 14:30  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

## Tentatively Identified Compounds

Total TIC Compounds	108	J	ug/l			1
Unknown Alkane	3.16	J	ug/l			1
Unknown Phenol	8.40	J	ug/l			1
Unknown	10.6	J	ug/l			1
Unknown	6.54	J	ug/l			1
Unknown Alkane	5.93	J	ug/l			1
Unknown Organic Acid	6.00	J	ug/l			1
Unknown	16.0	J	ug/l			1
Unknown Alcohol	3.34	J	ug/l			1
Unknown Azole	4.14	J	ug/l			1
Unknown Naphthalene	3.24	J	ug/l			1
Unknown	4.69	J	ug/l			1
Unknown Organic Acid	7.78	J	ug/l			1
Unknown Organic Acid	16.2	J	ug/l			1
Unknown	6.40	J	ug/l			1
Unknown Organic Acid	6.00	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	56		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	89		41-149

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-09  
 Client ID: TW-5  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 14:30  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 11/20/20 13:23  
 Analyst: DV

Extraction Method: EPA 3510C  
 Extraction Date: 11/19/20 11:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS-SIM - Westborough Lab</b>						
Acenaphthene	0.23		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.04	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.08	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.12		ug/l	0.10	0.01	1
Anthracene	0.15		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.05	J	ug/l	0.10	0.01	1
Fluorene	0.53		ug/l	0.10	0.01	1
Phenanthrene	0.21		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.14		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.21		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-09  
 Client ID: TW-5  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 14:30  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	84		15-120
2,4,6-Tribromophenol	<b>144</b>	Q	10-120
4-Terphenyl-d14	95		41-149

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-09  
 Client ID: TW-5  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 14:30  
 Date Received: 11/18/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 11/21/20 02:39  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 11/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	150	33.9	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			51		15-110	

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-09  
**Client ID:** TW-5  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 14:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/20/20 23:07  
**Analyst:** SG

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/19/20 21:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	8.50		ng/l	1.94	0.396	1
Perfluoropentanoic Acid (PFPeA)	15.6		ng/l	1.94	0.385	1
Perfluorobutanesulfonic Acid (PFBS)	9.10		ng/l	1.94	0.231	1
Perfluorohexanoic Acid (PFHxA)	10.5		ng/l	1.94	0.319	1
Perfluoroheptanoic Acid (PFHpA)	9.36		ng/l	1.94	0.219	1
Perfluorohexanesulfonic Acid (PFHxS)	5.70	F	ng/l	1.94	0.365	1
Perfluorooctanoic Acid (PFOA)	22.6	F	ng/l	1.94	0.229	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.94	1.29	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.66	J	ng/l	1.94	0.669	1
Perfluorononanoic Acid (PFNA)	2.86		ng/l	1.94	0.303	1
Perfluorooctanesulfonic Acid (PFOS)	49.1	F	ng/l	1.94	0.490	1
Perfluorodecanoic Acid (PFDA)	0.777	J	ng/l	1.94	0.295	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.94	1.18	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.94	0.630	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.94	0.253	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.94	0.952	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.94	0.564	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.94	0.781	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.94	0.362	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.94	0.318	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.94	0.241	1
PFOA/PFOS, Total	71.7		ng/l	1.94	0.229	1



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-09  
 Client ID: TW-5  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 14:30  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	82		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	147		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	77		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	112		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	<b>179</b>	Q	47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	<b>253</b>	Q	1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	75		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	<b>179</b>	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	115		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	132		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	127		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	79		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		33-143

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-10  
**Client ID:** FB  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 13:40  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Field Blank  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/20/20 23:23  
**Analyst:** SG

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/19/20 21:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.88	0.384	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.88	0.373	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.88	0.224	1
Perfluorohexanoic Acid (PFHxA)	0.369	J	ng/l	1.88	0.309	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.88	0.212	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.88	0.354	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.88	0.222	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.88	1.26	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.88	0.648	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.88	0.294	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.88	0.475	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.88	0.286	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.88	1.14	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.88	0.611	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.88	0.245	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.88	0.924	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.88	0.547	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.88	0.758	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.88	0.351	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.88	0.308	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.88	0.234	1
PFOA/PFOS, Total	ND		ng/l	1.88	0.222	1

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-10  
**Client ID:** FB  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 13:40  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	119		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	110		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	116		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	132		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	164		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	91		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	115		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	38		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	90		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	115		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		33-143

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/20/20 00:41  
Analyst: IM

Extraction Method: EPA 3546  
Extraction Date: 11/19/20 10:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1436184-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/20/20 00:41  
Analyst: IM

Extraction Method: EPA 3546  
Extraction Date: 11/19/20 10:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1436184-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/20/20 00:41  
Analyst: IM

Extraction Method: EPA 3546  
Extraction Date: 11/19/20 10:39

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1436184-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Tentatively Identified Compounds

No Tentatively Identified Compounds      ND      ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	100		18-120

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/20/20 15:51  
**Analyst:** SG

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/19/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-07 Batch: WG1436193-1					
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.500	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.500	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.500	0.061
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.500	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.500	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	0.500	0.130
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.500	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.500	0.054
PFOA/PFOS, Total	ND		ug/kg	0.500	0.042

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 11/20/20 15:51  
Analyst: SG

Extraction Method: ALPHA 23528  
Extraction Date: 11/19/20 08:39

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-07 Batch: WG1436193-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	91		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	95		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	99		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	84		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	143		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	17		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	71		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	62		26-160



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/20/20 04:43  
Analyst: JG

Extraction Method: EPA 3510C  
Extraction Date: 11/19/20 11:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1436212-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/20/20 04:43  
Analyst: JG

Extraction Method: EPA 3510C  
Extraction Date: 11/19/20 11:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1436212-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/20/20 04:43  
Analyst: JG

Extraction Method: EPA 3510C  
Extraction Date: 11/19/20 11:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1436212-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Tentatively Identified Compounds

Total TIC Compounds	6.36	J	ug/l
Unknown Organic Acid	1.53	J	ug/l
Unknown Amide	2.76	J	ug/l
Unknown	2.07	J	ug/l

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/20/20 04:43  
Analyst: JG

Extraction Method: EPA 3510C  
Extraction Date: 11/19/20 11:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 08-09 Batch: WG1436212-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	45		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	46		10-120
4-Terphenyl-d14	85		41-149

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 11/20/20 12:05  
Analyst: DV

Extraction Method: EPA 3510C  
Extraction Date: 11/19/20 11:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 08-09 Batch: WG1436214-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 11/20/20 12:05  
Analyst: DV

Extraction Method: EPA 3510C  
Extraction Date: 11/19/20 11:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 08-09 Batch: WG1436214-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	95		41-149

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 11/20/20 16:55  
Analyst: PS

Extraction Method: EPA 3510C  
Extraction Date: 11/19/20 19:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 08-09 Batch: WG1436322-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	54		15-110

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/20/20 18:25  
**Analyst:** SG

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/19/20 21:45

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 08-10 Batch: WG1436362-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	0.440	J	ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 11/20/20 18:25  
Analyst: SG

Extraction Method: ALPHA 23528  
Extraction Date: 11/19/20 21:45

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 08-10 Batch: WG1436362-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	114		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	107		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	109		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	113		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	122		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	203		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	<b>222</b>	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	106		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	117		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	105		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	112		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		33-143

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 11/22/20 12:08  
Analyst: RS

Extraction Method: ALPHA 23528  
Extraction Date: 11/19/20 21:45

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 08-10 Batch: WG1436362-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	76		1-87

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1436184-2 WG1436184-3								
Acenaphthene	78		83		31-137	6		50
1,2,4-Trichlorobenzene	76		80		38-107	5		50
Hexachlorobenzene	96		102		40-140	6		50
Bis(2-chloroethyl)ether	74		79		40-140	7		50
2-Chloronaphthalene	82		85		40-140	4		50
1,2-Dichlorobenzene	74		78		40-140	5		50
1,3-Dichlorobenzene	73		78		40-140	7		50
1,4-Dichlorobenzene	72		78		28-104	8		50
3,3'-Dichlorobenzidine	72		73		40-140	1		50
2,4-Dinitrotoluene	84		90		40-132	7		50
2,6-Dinitrotoluene	90		94		40-140	4		50
Fluoranthene	84		88		40-140	5		50
4-Chlorophenyl phenyl ether	84		87		40-140	4		50
4-Bromophenyl phenyl ether	90		96		40-140	6		50
Bis(2-chloroisopropyl)ether	64		69		40-140	8		50
Bis(2-chloroethoxy)methane	83		85		40-117	2		50
Hexachlorobutadiene	79		87		40-140	10		50
Hexachlorocyclopentadiene	83		87		40-140	5		50
Hexachloroethane	72		76		40-140	5		50
Isophorone	79		80		40-140	1		50
Naphthalene	76		82		40-140	8		50
Nitrobenzene	74		76		40-140	3		50
NDPA/DPA	84		88		36-157	5		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1436184-2 WG1436184-3								
n-Nitrosodi-n-propylamine	77		81		32-121	5		50
Bis(2-ethylhexyl)phthalate	90		95		40-140	5		50
Butyl benzyl phthalate	88		91		40-140	3		50
Di-n-butylphthalate	91		96		40-140	5		50
Di-n-octylphthalate	87		91		40-140	4		50
Diethyl phthalate	84		88		40-140	5		50
Dimethyl phthalate	86		90		40-140	5		50
Benzo(a)anthracene	81		85		40-140	5		50
Benzo(a)pyrene	88		91		40-140	3		50
Benzo(b)fluoranthene	84		88		40-140	5		50
Benzo(k)fluoranthene	82		86		40-140	5		50
Chrysene	81		86		40-140	6		50
Acenaphthylene	87		90		40-140	3		50
Anthracene	86		90		40-140	5		50
Benzo(ghi)perylene	85		90		40-140	6		50
Fluorene	82		87		40-140	6		50
Phenanthrene	83		86		40-140	4		50
Dibenzo(a,h)anthracene	89		93		40-140	4		50
Indeno(1,2,3-cd)pyrene	85		90		40-140	6		50
Pyrene	86		88		35-142	2		50
Biphenyl	89		93		37-127	4		50
4-Chloroaniline	64		65		40-140	2		50
2-Nitroaniline	87		90		47-134	3		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1436184-2 WG1436184-3								
3-Nitroaniline	70		66		26-129	6		50
4-Nitroaniline	76		80		41-125	5		50
Dibenzofuran	81		86		40-140	6		50
2-Methylnaphthalene	80		84		40-140	5		50
1,2,4,5-Tetrachlorobenzene	96		100		40-117	4		50
Acetophenone	77		80		14-144	4		50
2,4,6-Trichlorophenol	91		96		30-130	5		50
p-Chloro-m-cresol	84		87		26-103	4		50
2-Chlorophenol	81		85		25-102	5		50
2,4-Dichlorophenol	88		90		30-130	2		50
2,4-Dimethylphenol	88		89		30-130	1		50
2-Nitrophenol	82		84		30-130	2		50
4-Nitrophenol	76		79		11-114	4		50
2,4-Dinitrophenol	75		81		4-130	8		50
4,6-Dinitro-o-cresol	84		88		10-130	5		50
Pentachlorophenol	88		94		17-109	7		50
Phenol	73		76		26-90	4		50
2-Methylphenol	82		85		30-130.	4		50
3-Methylphenol/4-Methylphenol	83		86		30-130	4		50
2,4,5-Trichlorophenol	91		94		30-130	3		50
Benzoic Acid	62		68		10-110	9		50
Benzyl Alcohol	80		82		40-140	2		50
Carbazole	85		88		54-128	3		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1436184-2 WG1436184-3								
1,4-Dioxane	52		53		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	85		87		25-120
Phenol-d6	82		86		10-120
Nitrobenzene-d5	79		80		23-120
2-Fluorobiphenyl	90		92		30-120
2,4,6-Tribromophenol	105		112		10-136
4-Terphenyl-d14	100		104		18-120

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 Batch: WG1436193-2 WG1436193-3								
Perfluorobutanoic Acid (PFBA)	108		108		71-135	0		30
Perfluoropentanoic Acid (PFPeA)	112		111		69-132	1		30
Perfluorobutanesulfonic Acid (PFBS)	112		112		72-128	0		30
Perfluorohexanoic Acid (PFHxA)	110		110		70-132	0		30
Perfluoroheptanoic Acid (PFHpA)	108		106		71-131	2		30
Perfluorohexanesulfonic Acid (PFHxS)	112		112		67-130	0		30
Perfluorooctanoic Acid (PFOA)	106		106		69-133	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	119		123		64-140	3		30
Perfluoroheptanesulfonic Acid (PFHpS)	106		105		70-132	1		30
Perfluorononanoic Acid (PFNA)	110		110		72-129	0		30
Perfluorooctanesulfonic Acid (PFOS)	112		114		68-136	2		30
Perfluorodecanoic Acid (PFDA)	107		108		69-133	1		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	117		114		65-137	3		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	107		112		63-144	5		30
Perfluoroundecanoic Acid (PFUnA)	109		111		64-136	2		30
Perfluorodecanesulfonic Acid (PFDS)	119		119		59-134	0		30
Perfluorooctanesulfonamide (FOSA)	102		112		67-137	9		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	109		112		61-139	3		30
Perfluorododecanoic Acid (PFDoA)	110		112		69-135	2		30
Perfluorotridecanoic Acid (PFTrDA)	103		103		66-139	0		30
Perfluorotetradecanoic Acid (PFTA)	121		121		69-133	0		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 Batch: WG1436193-2 WG1436193-3									

Surrogate (Extracted Internal Standard)	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		92		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	97		99		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		94		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		95		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	97		101		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		105		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		94		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	120		118		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86		90		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		96		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		93		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	138		146		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	84		79		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		104		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	17		18		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		79		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		105		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		71		26-160



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1436212-2 WG1436212-3								
Acenaphthene	79		83		37-111	5		30
1,2,4-Trichlorobenzene	75		78		39-98	4		30
Hexachlorobenzene	82		87		40-140	6		30
Bis(2-chloroethyl)ether	76		80		40-140	5		30
2-Chloronaphthalene	80		83		40-140	4		30
1,2-Dichlorobenzene	72		76		40-140	5		30
1,3-Dichlorobenzene	72		74		40-140	3		30
1,4-Dichlorobenzene	72		74		36-97	3		30
3,3'-Dichlorobenzidine	70		73		40-140	4		30
2,4-Dinitrotoluene	81		88		48-143	8		30
2,6-Dinitrotoluene	82		88		40-140	7		30
Fluoranthene	90		95		40-140	5		30
4-Chlorophenyl phenyl ether	80		84		40-140	5		30
4-Bromophenyl phenyl ether	82		86		40-140	5		30
Bis(2-chloroisopropyl)ether	75		77		40-140	3		30
Bis(2-chloroethoxy)methane	76		79		40-140	4		30
Hexachlorobutadiene	72		75		40-140	4		30
Hexachlorocyclopentadiene	68		70		40-140	3		30
Hexachloroethane	71		72		40-140	1		30
Isophorone	78		83		40-140	6		30
Naphthalene	77		80		40-140	4		30
Nitrobenzene	76		80		40-140	5		30
NDPA/DPA	85		89		40-140	5		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1436212-2 WG1436212-3								
n-Nitrosodi-n-propylamine	80		86		29-132	7		30
Bis(2-ethylhexyl)phthalate	76		79		40-140	4		30
Butyl benzyl phthalate	86		91		40-140	6		30
Di-n-butylphthalate	78		83		40-140	6		30
Di-n-octylphthalate	85		88		40-140	3		30
Diethyl phthalate	83		89		40-140	7		30
Dimethyl phthalate	85		88		40-140	3		30
Benzo(a)anthracene	84		88		40-140	5		30
Benzo(a)pyrene	96		99		40-140	3		30
Benzo(b)fluoranthene	97		92		40-140	5		30
Benzo(k)fluoranthene	91		101		40-140	10		30
Chrysene	89		92		40-140	3		30
Acenaphthylene	84		90		45-123	7		30
Anthracene	88		92		40-140	4		30
Benzo(ghi)perylene	92		95		40-140	3		30
Fluorene	83		89		40-140	7		30
Phenanthrene	85		88		40-140	3		30
Dibenzo(a,h)anthracene	90		93		40-140	3		30
Indeno(1,2,3-cd)pyrene	88		94		40-140	7		30
Pyrene	89		92		26-127	3		30
Biphenyl	82		86		40-140	5		30
4-Chloroaniline	55		56		40-140	2		30
2-Nitroaniline	83		88		52-143	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1436212-2 WG1436212-3								
3-Nitroaniline	77		80		25-145	4		30
4-Nitroaniline	77		82		51-143	6		30
Dibenzofuran	80		84		40-140	5		30
2-Methylnaphthalene	79		83		40-140	5		30
1,2,4,5-Tetrachlorobenzene	78		82		2-134	5		30
Acetophenone	77		83		39-129	8		30
2,4,6-Trichlorophenol	81		86		30-130	6		30
p-Chloro-m-cresol	86		89		23-97	3		30
2-Chlorophenol	78		84		27-123	7		30
2,4-Dichlorophenol	81		86		30-130	6		30
2,4-Dimethylphenol	59		62		30-130	5		30
2-Nitrophenol	80		85		30-130	6		30
4-Nitrophenol	77		87	Q	10-80	12		30
2,4-Dinitrophenol	82		84		20-130	2		30
4,6-Dinitro-o-cresol	84		89		20-164	6		30
Pentachlorophenol	63		64		9-103	2		30
Phenol	56		58		12-110	4		30
2-Methylphenol	75		77		30-130	3		30
3-Methylphenol/4-Methylphenol	81		86		30-130	6		30
2,4,5-Trichlorophenol	85		90		30-130	6		30
Benzoic Acid	53		54		10-164	2		30
Benzyl Alcohol	75		78		26-116	4		30
Carbazole	88		92		55-144	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	---------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09 Batch: WG1436212-2 WG1436212-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	67		69		21-120
Phenol-d6	60		62		10-120
Nitrobenzene-d5	76		79		23-120
2-Fluorobiphenyl	75		79		15-120
2,4,6-Tribromophenol	111		117		10-120
4-Terphenyl-d14	89		91		41-149

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 08-09 Batch: WG1436214-2 WG1436214-3								
Acenaphthene	76		80		40-140	5		40
2-Chloronaphthalene	78		81		40-140	4		40
Fluoranthene	96		102		40-140	6		40
Hexachlorobutadiene	69		69		40-140	0		40
Naphthalene	70		71		40-140	1		40
Benzo(a)anthracene	94		99		40-140	5		40
Benzo(a)pyrene	102		109		40-140	7		40
Benzo(b)fluoranthene	94		104		40-140	10		40
Benzo(k)fluoranthene	101		102		40-140	1		40
Chrysene	90		94		40-140	4		40
Acenaphthylene	86		90		40-140	5		40
Anthracene	88		93		40-140	6		40
Benzo(ghi)perylene	92		98		40-140	6		40
Fluorene	85		90		40-140	6		40
Phenanthrene	83		87		40-140	5		40
Dibenzo(a,h)anthracene	97		102		40-140	5		40
Indeno(1,2,3-cd)pyrene	99		105		40-140	6		40
Pyrene	98		102		40-140	4		40
2-Methylnaphthalene	76		79		40-140	4		40
Pentachlorophenol	125		129		40-140	3		40
Hexachlorobenzene	82		86		40-140	5		40
Hexachloroethane	58		56		40-140	4		40

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 08-09 Batch: WG1436214-2 WG1436214-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	58		56		21-120
Phenol-d6	47		47		10-120
Nitrobenzene-d5	71		70		23-120
2-Fluorobiphenyl	78		82		15-120
2,4,6-Tribromophenol	121	Q	126	Q	10-120
4-Terphenyl-d14	91		94		41-149

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 08-09 Batch: WG1436322-2 WG1436322-3								
1,4-Dioxane	116		118		40-140	2		30

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
1,4-Dioxane-d8	52		54		15-110

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 08-10 Batch: WG1436362-2 WG1436362-3								
Perfluorobutanoic Acid (PFBA)	107		104		67-148	3		30
Perfluoropentanoic Acid (PFPeA)	110		109		63-161	1		30
Perfluorobutanesulfonic Acid (PFBS)	108		106		65-157	2		30
Perfluorohexanoic Acid (PFHxA)	107		106		69-168	1		30
Perfluoroheptanoic Acid (PFHpA)	103		102		58-159	1		30
Perfluorohexanesulfonic Acid (PFHxS)	107		103		69-177	4		30
Perfluorooctanoic Acid (PFOA)	103		104		63-159	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	116		109		49-187	6		30
Perfluoroheptanesulfonic Acid (PFHpS)	106		106		61-179	0		30
Perfluorononanoic Acid (PFNA)	106		106		68-171	0		30
Perfluorooctanesulfonic Acid (PFOS)	111		107		52-151	4		30
Perfluorodecanoic Acid (PFDA)	104		104		63-171	0		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	131		122		56-173	7		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	110		104		60-166	6		30
Perfluoroundecanoic Acid (PFUnA)	105		106		60-153	1		30
Perfluorodecanesulfonic Acid (PFDS)	117		113		38-156	3		30
Perfluorooctanesulfonamide (FOSA)	103		102		46-170	1		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	106		99		45-170	7		30
Perfluorododecanoic Acid (PFDoA)	109		107		67-153	2		30
Perfluorotridecanoic Acid (PFTrDA)	103		100		48-158	3		30
Perfluorotetradecanoic Acid (PFTA)	118		112		59-182	5		30



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 08-10 Batch: WG1436362-2 WG1436362-3									

Surrogate (Extracted Internal Standard)	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		99		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	112		108		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		103		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		100		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	110		108		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	118		115		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		97		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	147		153		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		93		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105		101		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	101		98		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	169		175	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	86		88		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	113		109		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	35		35		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	94		92		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	115		108		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		76		33-143

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 08-10 Batch: WG1436362-2 WG1436362-3								
Perfluorooctanesulfonamide (FOSA)	102		103		46-170	1		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	81		79		1-87

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** 329 HUGUENOT ST

**Project Number:** 11571

**Lab Number:** L2051312

**Report Date:** 11/23/20

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1436193-4 QC Sample: L2051312-01 Client ID: S-12 (3-4)												
Perfluorobutanoic Acid (PFBA)	ND	5.12	5.72	112		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	5.12	5.96	116		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.55	5.30	116		-	-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	ND	5.12	5.80	113		-	-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.12	5.62	110		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.68	5.21	111		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	0.087JF	5.12	5.87F	113		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.88	6.07F	124		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.88	5.38	110		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	5.12	5.92	116		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	0.946F	4.76	6.44F	116		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	5.12	5.65	110		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.92	6.05F	123		-	-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.12	5.86F	114		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.12	5.70	111		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.94	6.06	123		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	5.12	5.26F	103		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.12	5.55	108		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	5.12	5.98	117		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.12	5.61	109		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.12	6.36	124		-	-		69-133	-		30

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** 329 HUGUENOT ST

**Lab Number:** L2051312

**Project Number:** 11571

**Report Date:** 11/23/20

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1436193-4 QC Sample: L2051312-01 Client ID: S-12 (3-4)												

<i>Surrogate (Extracted Internal Standard)</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	125				25-186
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	104				32-182
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	64				42-136
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59				45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	91				64-158
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	81				65-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82				61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	91				62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	84				63-166
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86				56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	63				26-160
Perfluoro[13C4]Butanoic Acid (MPFBA)	82				60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88				65-182
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	36				1-125
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	74				65-151
Perfluoro[13C8]Octanoic Acid (M8PFOA)	80				62-152
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	76				61-154
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	75				70-151

## Lab Duplicate Analysis

Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1436193-5 QC Sample: L2051312-02 Client ID: S-13 (5-6)						
Perfluorobutanoic Acid (PFBA)	ND	ND	ug/kg	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ug/kg	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ug/kg	NC		30
Perfluorohexanoic Acid (PFHxA)	0.084J	0.089J	ug/kg	NC		30
Perfluoroheptanoic Acid (PFHpA)	0.052J	0.050J	ug/kg	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	0.696	0.605F	ug/kg	14		30
Perfluorooctanoic Acid (PFOA)	0.308JF	0.287JF	ug/kg	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ug/kg	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ug/kg	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ug/kg	NC		30
Perfluorooctanesulfonic Acid (PFOS)	3.47F	3.08F	ug/kg	12		30
Perfluorodecanoic Acid (PFDA)	0.096J	0.104JF	ug/kg	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ug/kg	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ug/kg	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ug/kg	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ug/kg	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ug/kg	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ug/kg	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ug/kg	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ug/kg	NC		30

## Lab Duplicate Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1436193-5 QC Sample: L2051312-02 Client ID: S-13 (5-6)						
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ug/kg	NC		30
PFOA/PFOS, Total	3.78J	3.37J	ug/kg	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		83		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		92		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		88		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		87		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	99		98		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106		101		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		89		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	132		123		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85		84		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		89		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		90		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	159		158		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	90		85		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		103		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	15		13		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78		81		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		98		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		70		26-160

# PCBS

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-01  
**Client ID:** S-12 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 08:40  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 11/19/20 22:02  
**Analyst:** AD  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 08:25  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 11/19/20  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 12/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	35.8	3.18	1	A
Aroclor 1221	ND		ug/kg	35.8	3.58	1	A
Aroclor 1232	ND		ug/kg	35.8	7.58	1	A
Aroclor 1242	ND		ug/kg	35.8	4.82	1	A
Aroclor 1248	ND		ug/kg	35.8	5.37	1	A
Aroclor 1254	16.9	J	ug/kg	35.8	3.91	1	B
Aroclor 1260	ND		ug/kg	35.8	6.61	1	B
Aroclor 1262	ND		ug/kg	35.8	4.54	1	A
Aroclor 1268	ND		ug/kg	35.8	3.71	1	A
PCBs, Total	16.9	J	ug/kg	35.8	3.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	49		30-150	B



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-02  
**Client ID:** S-13 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:00  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 11/19/20 22:14  
**Analyst:** AD  
**Percent Solids:** 91%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 08:25  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 11/19/20  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 12/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.6	3.07	1	A
Aroclor 1221	ND		ug/kg	34.6	3.47	1	A
Aroclor 1232	ND		ug/kg	34.6	7.34	1	A
Aroclor 1242	ND		ug/kg	34.6	4.67	1	A
Aroclor 1248	ND		ug/kg	34.6	5.19	1	A
Aroclor 1254	ND		ug/kg	34.6	3.79	1	A
Aroclor 1260	ND		ug/kg	34.6	6.40	1	A
Aroclor 1262	ND		ug/kg	34.6	4.40	1	A
Aroclor 1268	ND		ug/kg	34.6	3.59	1	A
PCBs, Total	ND		ug/kg	34.6	3.07	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	35		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	38		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-03  
**Client ID:** S-14 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:10  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 11/19/20 22:27  
**Analyst:** AD  
**Percent Solids:** 94%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 08:25  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 11/19/20  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 12/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	34.6	3.07	1	A
Aroclor 1221	ND		ug/kg	34.6	3.46	1	A
Aroclor 1232	ND		ug/kg	34.6	7.33	1	A
Aroclor 1242	ND		ug/kg	34.6	4.66	1	A
Aroclor 1248	ND		ug/kg	34.6	5.19	1	A
Aroclor 1254	44.8		ug/kg	34.6	3.78	1	B
Aroclor 1260	ND		ug/kg	34.6	6.39	1	A
Aroclor 1262	ND		ug/kg	34.6	4.39	1	A
Aroclor 1268	ND		ug/kg	34.6	3.58	1	A
PCBs, Total	44.8		ug/kg	34.6	3.07	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	48		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-04  
**Client ID:** S-15 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 11/19/20 22:40  
**Analyst:** AD  
**Percent Solids:** 90%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 08:25  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 11/19/20  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 12/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	35.5	3.15	1	A
Aroclor 1221	ND		ug/kg	35.5	3.56	1	A
Aroclor 1232	ND		ug/kg	35.5	7.53	1	A
Aroclor 1242	ND		ug/kg	35.5	4.79	1	A
Aroclor 1248	ND		ug/kg	35.5	5.33	1	A
Aroclor 1254	12.2	J	ug/kg	35.5	3.88	1	A
Aroclor 1260	ND		ug/kg	35.5	6.56	1	A
Aroclor 1262	ND		ug/kg	35.5	4.51	1	A
Aroclor 1268	ND		ug/kg	35.5	3.68	1	A
PCBs, Total	12.2	J	ug/kg	35.5	3.15	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	41		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-05  
 Client ID: S-16 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:30  
 Date Received: 11/18/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 11/19/20 22:53  
 Analyst: AD  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 11/19/20 08:25  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/19/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 12/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	36.2	3.22	1	A
Aroclor 1221	ND		ug/kg	36.2	3.63	1	A
Aroclor 1232	ND		ug/kg	36.2	7.68	1	A
Aroclor 1242	ND		ug/kg	36.2	4.88	1	A
Aroclor 1248	ND		ug/kg	36.2	5.44	1	A
Aroclor 1254	60.2		ug/kg	36.2	3.96	1	A
Aroclor 1260	ND		ug/kg	36.2	6.70	1	A
Aroclor 1262	ND		ug/kg	36.2	4.60	1	A
Aroclor 1268	ND		ug/kg	36.2	3.75	1	A
PCBs, Total	60.2		ug/kg	36.2	3.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	45		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-06  
**Client ID:** S-17 (2-3)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:50  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 11/19/20 23:05  
**Analyst:** AD  
**Percent Solids:** 84%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 08:25  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 11/19/20  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 12/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	39.2	3.48	1	A
Aroclor 1221	ND		ug/kg	39.2	3.93	1	A
Aroclor 1232	ND		ug/kg	39.2	8.31	1	A
Aroclor 1242	ND		ug/kg	39.2	5.29	1	A
Aroclor 1248	ND		ug/kg	39.2	5.88	1	A
Aroclor 1254	223		ug/kg	39.2	4.29	1	B
Aroclor 1260	ND		ug/kg	39.2	7.25	1	A
Aroclor 1262	ND		ug/kg	39.2	4.98	1	A
Aroclor 1268	ND		ug/kg	39.2	4.06	1	A
PCBs, Total	223		ug/kg	39.2	3.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	56		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-07  
 Client ID: S-18 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 13:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 11/19/20 23:18  
 Analyst: AD  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 11/19/20 08:25  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/19/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 12/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	38.5	3.42	1	A
Aroclor 1221	ND		ug/kg	38.5	3.86	1	A
Aroclor 1232	ND		ug/kg	38.5	8.16	1	A
Aroclor 1242	ND		ug/kg	38.5	5.19	1	A
Aroclor 1248	ND		ug/kg	38.5	5.77	1	A
Aroclor 1254	261		ug/kg	38.5	4.21	1	B
Aroclor 1260	ND		ug/kg	38.5	7.11	1	A
Aroclor 1262	ND		ug/kg	38.5	4.89	1	A
Aroclor 1268	ND		ug/kg	38.5	3.99	1	A
PCBs, Total	261		ug/kg	38.5	3.42	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	64		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-08  
**Client ID:** TW-4  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 11:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 1,8082A  
**Analytical Date:** 11/20/20 00:17  
**Analyst:** JAW

**Extraction Method:** EPA 3510C  
**Extraction Date:** 11/19/20 07:51  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 11/19/20  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	68		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-09  
**Client ID:** TW-5  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 14:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 1,8082A  
**Analytical Date:** 11/20/20 00:25  
**Analyst:** JAW

**Extraction Method:** EPA 3510C  
**Extraction Date:** 11/19/20 07:51  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 11/19/20  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	92		30-150	B



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 11/19/20 23:53  
Analyst: JAW

Extraction Method: EPA 3510C  
Extraction Date: 11/19/20 07:51  
Cleanup Method: EPA 3665A  
Cleanup Date: 11/19/20  
Cleanup Method: EPA 3660B  
Cleanup Date: 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 08-09 Batch: WG1436074-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	86		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 11/19/20 23:31  
Analyst: AD

Extraction Method: EPA 3546  
Extraction Date: 11/19/20 08:25  
Cleanup Method: EPA 3665A  
Cleanup Date: 11/19/20  
Cleanup Method: EPA 3660B  
Cleanup Date: 12/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-07 Batch: WG1436092-1						
Aroclor 1016	ND		ug/kg	32.3	2.87	A
Aroclor 1221	ND		ug/kg	32.3	3.24	A
Aroclor 1232	ND		ug/kg	32.3	6.85	A
Aroclor 1242	ND		ug/kg	32.3	4.35	A
Aroclor 1248	ND		ug/kg	32.3	4.84	A
Aroclor 1254	ND		ug/kg	32.3	3.53	A
Aroclor 1260	ND		ug/kg	32.3	5.97	A
Aroclor 1262	ND		ug/kg	32.3	4.10	A
Aroclor 1268	ND		ug/kg	32.3	3.35	A
PCBs, Total	ND		ug/kg	32.3	2.87	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	55		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 08-09 Batch: WG1436074-2 WG1436074-3									
Aroclor 1016	82		94		40-140	14		50	A
Aroclor 1260	76		87		40-140	14		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		90		30-150	A
Decachlorobiphenyl	82		99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		86		30-150	B
Decachlorobiphenyl	88		97		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG1436092-2 WG1436092-3									
Aroclor 1016	60		66		40-140	10		50	A
Aroclor 1260	53		60		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		64		30-150	A
Decachlorobiphenyl	46		53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		66		30-150	B
Decachlorobiphenyl	55		61		30-150	B

# PESTICIDES

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-01  
**Client ID:** S-12 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 08:40  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 11/20/20 12:45  
**Analyst:** BM  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 09:52  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.730	0.326	1	A
Alpha-BHC	ND		ug/kg	0.730	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.665	1	A
Heptachlor	ND		ug/kg	0.876	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.617	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.986	1	A
Endrin	ND		ug/kg	0.730	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.767	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	9.75		ug/kg	1.10	0.548	1	B
4,4'-DDE	29.6		ug/kg	1.75	0.405	1	B
4,4'-DDD	8.33		ug/kg	1.75	0.625	1	A
4,4'-DDT	57.4		ug/kg	3.29	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.586	1	A
Endosulfan sulfate	ND		ug/kg	0.730	0.348	1	A
Methoxychlor	10.5	IP	ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.20	1	A
cis-Chlordane	22.5		ug/kg	2.19	0.611	1	A
trans-Chlordane	20.2		ug/kg	2.19	0.578	1	A
Chlordane	198		ug/kg	14.6	5.81	1	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-01  
 Client ID: S-12 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 08:40  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	155	Q	30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-02  
**Client ID:** S-13 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:00  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 11/20/20 12:55  
**Analyst:** BM  
**Percent Solids:** 91%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 09:52  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.72	0.337	1	A
Lindane	ND		ug/kg	0.716	0.320	1	A
Alpha-BHC	ND		ug/kg	0.716	0.203	1	A
Beta-BHC	ND		ug/kg	1.72	0.652	1	A
Heptachlor	ND		ug/kg	0.860	0.385	1	A
Aldrin	ND		ug/kg	1.72	0.605	1	A
Heptachlor epoxide	ND		ug/kg	3.22	0.967	1	A
Endrin	ND		ug/kg	0.716	0.294	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.752	1	A
Endrin ketone	ND		ug/kg	1.72	0.443	1	A
Dieldrin	17.2	IP	ug/kg	1.07	0.537	1	A
4,4'-DDE	99.3		ug/kg	1.72	0.398	1	A
4,4'-DDD	20.0		ug/kg	1.72	0.613	1	A
4,4'-DDT	447	E	ug/kg	3.22	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.406	1	A
Endosulfan II	ND		ug/kg	1.72	0.575	1	A
Endosulfan sulfate	ND		ug/kg	0.716	0.341	1	A
Methoxychlor	352	PE	ug/kg	3.22	1.00	1	B
Toxaphene	ND		ug/kg	32.2	9.03	1	A
cis-Chlordane	524	E	ug/kg	2.15	0.599	1	A
trans-Chlordane	379	E	ug/kg	2.15	0.567	1	A
Chlordane	2710	E	ug/kg	14.3	5.70	1	B



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-02  
 Client ID: S-13 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 09:00  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	442	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	3070	Q	30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-02 D  
 Client ID: S-13 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 09:00  
 Date Received: 11/18/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 11/20/20 17:13  
 Analyst: BM  
 Percent Solids: 91%

Extraction Method: EPA 3546  
 Extraction Date: 11/19/20 09:52  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
4,4'-DDT	509		ug/kg	32.2	13.8	10	A
Methoxychlor	409		ug/kg	32.2	10.0	10	A
cis-Chlordane	418	IP	ug/kg	21.5	5.99	10	B
trans-Chlordane	479		ug/kg	21.5	5.67	10	A
Chlordane	2500		ug/kg	143	57.0	10	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-03  
**Client ID:** S-14 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:10  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 11/20/20 13:17  
**Analyst:** BM  
**Percent Solids:** 94%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 09:52  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.62	0.317	1	A
Lindane	ND		ug/kg	0.675	0.302	1	A
Alpha-BHC	ND		ug/kg	0.675	0.192	1	A
Beta-BHC	ND		ug/kg	1.62	0.615	1	A
Heptachlor	ND		ug/kg	0.810	0.363	1	A
Aldrin	ND		ug/kg	1.62	0.571	1	A
Heptachlor epoxide	ND		ug/kg	3.04	0.912	1	A
Endrin	ND		ug/kg	0.675	0.277	1	A
Endrin aldehyde	ND		ug/kg	2.03	0.709	1	A
Endrin ketone	ND		ug/kg	1.62	0.417	1	A
Dieldrin	3.85		ug/kg	1.01	0.506	1	B
4,4'-DDE	180	E	ug/kg	1.62	0.375	1	A
4,4'-DDD	6.68		ug/kg	1.62	0.578	1	B
4,4'-DDT	207	E	ug/kg	3.04	1.30	1	A
Endosulfan I	ND		ug/kg	1.62	0.383	1	A
Endosulfan II	ND		ug/kg	1.62	0.542	1	A
Endosulfan sulfate	ND		ug/kg	0.675	0.322	1	A
Methoxychlor	ND		ug/kg	3.04	0.946	1	A
Toxaphene	ND		ug/kg	30.4	8.51	1	A
cis-Chlordane	5.22		ug/kg	2.03	0.565	1	A
trans-Chlordane	6.07	IP	ug/kg	2.03	0.535	1	A
Chlordane	115	P	ug/kg	13.5	5.37	1	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-03  
 Client ID: S-14 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 09:10  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	76		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-03 D  
 Client ID: S-14 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 09:10  
 Date Received: 11/18/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 11/20/20 17:24  
 Analyst: BM  
 Percent Solids: 94%

Extraction Method: EPA 3546  
 Extraction Date: 11/19/20 09:52  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
4,4'-DDE	180		ug/kg	8.10	1.87	5	B
4,4'-DDT	209		ug/kg	15.2	6.52	5	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-04  
**Client ID:** S-15 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 11/20/20 13:27  
**Analyst:** BM  
**Percent Solids:** 90%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 09:52  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.76	0.345	1	A
Lindane	ND		ug/kg	0.735	0.328	1	A
Alpha-BHC	ND		ug/kg	0.735	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.668	1	A
Heptachlor	ND		ug/kg	0.882	0.395	1	A
Aldrin	ND		ug/kg	1.76	0.621	1	A
Heptachlor epoxide	ND	IP	ug/kg	3.31	0.992	1	B
Endrin	ND		ug/kg	0.735	0.301	1	A
Endrin aldehyde	ND		ug/kg	2.20	0.771	1	A
Endrin ketone	ND		ug/kg	1.76	0.454	1	A
Dieldrin	6.96		ug/kg	1.10	0.551	1	B
4,4'-DDE	18.3	IP	ug/kg	1.76	0.408	1	A
4,4'-DDD	5.43		ug/kg	1.76	0.629	1	A
4,4'-DDT	95.5		ug/kg	3.31	1.42	1	A
Endosulfan I	ND		ug/kg	1.76	0.416	1	A
Endosulfan II	ND		ug/kg	1.76	0.589	1	A
Endosulfan sulfate	ND		ug/kg	0.735	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.26	1	A
cis-Chlordane	7.40		ug/kg	2.20	0.614	1	B
trans-Chlordane	8.35		ug/kg	2.20	0.582	1	A
Chlordane	136		ug/kg	14.7	5.84	1	A

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-04  
 Client ID: S-15 (5-6)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	<b>242</b>	Q	30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-05  
**Client ID:** S-16 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 11/20/20 13:38  
**Analyst:** BM  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 09:52  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.71	0.335	1	A
Lindane	ND		ug/kg	0.713	0.319	1	A
Alpha-BHC	ND		ug/kg	0.713	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.649	1	A
Heptachlor	ND		ug/kg	0.856	0.384	1	A
Aldrin	ND		ug/kg	1.71	0.603	1	A
Heptachlor epoxide	4.21		ug/kg	3.21	0.963	1	A
Endrin	ND		ug/kg	0.713	0.292	1	A
Endrin aldehyde	ND		ug/kg	2.14	0.749	1	A
Endrin ketone	ND		ug/kg	1.71	0.441	1	A
Dieldrin	12.4		ug/kg	1.07	0.535	1	B
4,4'-DDE	106		ug/kg	1.71	0.396	1	B
4,4'-DDD	16.4		ug/kg	1.71	0.610	1	B
4,4'-DDT	220	E	ug/kg	3.21	1.38	1	B
Endosulfan I	ND		ug/kg	1.71	0.404	1	A
Endosulfan II	ND		ug/kg	1.71	0.572	1	A
Endosulfan sulfate	ND		ug/kg	0.713	0.340	1	A
Methoxychlor	ND		ug/kg	3.21	0.999	1	A
Toxaphene	ND		ug/kg	32.1	8.99	1	A
cis-Chlordane	14.9		ug/kg	2.14	0.596	1	A
trans-Chlordane	14.4		ug/kg	2.14	0.565	1	B
Chlordane	139	P	ug/kg	14.3	5.67	1	B



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-05  
 Client ID: S-16 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:30  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	115		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-05 D  
 Client ID: S-16 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:30  
 Date Received: 11/18/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 11/20/20 17:35  
 Analyst: BM  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 11/19/20 09:52  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
4,4'-DDT	340		ug/kg	16.0	6.88	5	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-06  
**Client ID:** S-17 (2-3)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:50  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 11/20/20 13:49  
**Analyst:** BM  
**Percent Solids:** 84%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 09:52  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.81	0.355	1	A
Lindane	ND		ug/kg	0.756	0.338	1	A
Alpha-BHC	ND		ug/kg	0.756	0.215	1	A
Beta-BHC	ND		ug/kg	1.81	0.688	1	A
Heptachlor	ND		ug/kg	0.907	0.406	1	A
Aldrin	ND		ug/kg	1.81	0.638	1	A
Heptachlor epoxide	ND		ug/kg	3.40	1.02	1	A
Endrin	ND		ug/kg	0.756	0.310	1	A
Endrin aldehyde	ND		ug/kg	2.27	0.793	1	A
Endrin ketone	ND		ug/kg	1.81	0.467	1	A
Dieldrin	ND		ug/kg	1.13	0.567	1	A
4,4'-DDE	5.83		ug/kg	1.81	0.419	1	A
4,4'-DDD	ND		ug/kg	1.81	0.647	1	A
4,4'-DDT	13.1	IP	ug/kg	3.40	1.46	1	A
Endosulfan I	ND		ug/kg	1.81	0.428	1	A
Endosulfan II	ND		ug/kg	1.81	0.606	1	A
Endosulfan sulfate	ND		ug/kg	0.756	0.360	1	A
Methoxychlor	ND		ug/kg	3.40	1.06	1	A
Toxaphene	ND		ug/kg	34.0	9.52	1	A
cis-Chlordane	5.35		ug/kg	2.27	0.632	1	A
trans-Chlordane	7.08		ug/kg	2.27	0.598	1	B
Chlordane	92.4		ug/kg	15.1	6.01	1	A

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-06  
 Client ID: S-17 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 12:50  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	85		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-07  
**Client ID:** S-18 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 13:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 11/20/20 13:59  
**Analyst:** BM  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 11/19/20 09:52  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.84	0.361	1	A
Lindane	ND		ug/kg	0.769	0.344	1	A
Alpha-BHC	ND		ug/kg	0.769	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.700	1	A
Heptachlor	ND		ug/kg	0.923	0.414	1	A
Aldrin	ND		ug/kg	1.84	0.650	1	A
Heptachlor epoxide	ND		ug/kg	3.46	1.04	1	A
Endrin	ND		ug/kg	0.769	0.315	1	A
Endrin aldehyde	ND		ug/kg	2.31	0.808	1	A
Endrin ketone	ND		ug/kg	1.84	0.475	1	A
Dieldrin	ND		ug/kg	1.15	0.577	1	A
4,4'-DDE	ND		ug/kg	1.84	0.427	1	A
4,4'-DDD	ND		ug/kg	1.84	0.658	1	A
4,4'-DDT	9.36	IP	ug/kg	3.46	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.436	1	A
Endosulfan II	ND		ug/kg	1.84	0.617	1	A
Endosulfan sulfate	ND		ug/kg	0.769	0.366	1	A
Methoxychlor	ND		ug/kg	3.46	1.08	1	A
Toxaphene	ND		ug/kg	34.6	9.69	1	A
cis-Chlordane	6.91		ug/kg	2.31	0.643	1	A
trans-Chlordane	8.52		ug/kg	2.31	0.609	1	B
Chlordane	78.0	IP	ug/kg	15.4	6.11	1	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-07  
 Client ID: S-18 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 13:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	145		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-08  
 Client ID: TW-4  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 11:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8081B  
 Analytical Date: 11/19/20 20:48  
 Analyst: JMC

Extraction Method: EPA 3510C  
 Extraction Date: 11/19/20 07:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	0.010	J	ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-08  
 Client ID: TW-4  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 11:15  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	34		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	55		30-150	B



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-09  
**Client ID:** TW-5  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 14:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 1,8081B  
**Analytical Date:** 11/19/20 21:00  
**Analyst:** JMC

**Extraction Method:** EPA 3510C  
**Extraction Date:** 11/19/20 07:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

Lab ID: L2051312-09  
 Client ID: TW-5  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/18/20 14:30  
 Date Received: 11/18/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	92		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 11/19/20 21:12  
Analyst: JMC

Extraction Method: EPA 3510C  
Extraction Date: 11/19/20 07:49

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 08-09 Batch: WG1436069-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 11/19/20 21:12  
Analyst: JMC

Extraction Method: EPA 3510C  
Extraction Date: 11/19/20 07:49

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 08-09 Batch: WG1436069-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	64		30-150	B

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 11/20/20 11:36  
Analyst: BM

Extraction Method: EPA 3546  
Extraction Date: 11/19/20 09:52  
Cleanup Method: EPA 3620B  
Cleanup Date: 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-07 Batch: WG1436138-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.650	0.291	A
Alpha-BHC	ND		ug/kg	0.650	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.592	A
Heptachlor	ND		ug/kg	0.780	0.350	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.878	A
Endrin	ND		ug/kg	0.650	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.683	A
Endrin ketone	ND		ug/kg	1.56	0.402	A
Dieldrin	ND		ug/kg	0.975	0.488	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.556	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.369	A
Endosulfan II	ND		ug/kg	1.56	0.521	A
Endosulfan sulfate	ND		ug/kg	0.650	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.910	A
Toxaphene	ND		ug/kg	29.2	8.19	A
cis-Chlordane	ND		ug/kg	1.95	0.544	A
trans-Chlordane	ND		ug/kg	1.95	0.515	A
Chlordane	ND		ug/kg	13.0	5.17	A

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 11/20/20 11:36  
Analyst: BM

Extraction Method: EPA 3546  
Extraction Date: 11/19/20 09:52  
Cleanup Method: EPA 3620B  
Cleanup Date: 11/19/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-07 Batch: WG1436138-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	69		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 08-09 Batch: WG1436069-2 WG1436069-3									
Delta-BHC	66		63		30-150	4		20	A
Lindane	65		63		30-150	3		20	A
Alpha-BHC	73		65		30-150	12		20	A
Beta-BHC	75		75		30-150	0		20	A
Heptachlor	69		63		30-150	10		20	A
Aldrin	62		59		30-150	5		20	A
Heptachlor epoxide	66		64		30-150	3		20	A
Endrin	59		59		30-150	1		20	A
Endrin aldehyde	34		38		30-150	12		20	A
Endrin ketone	54		50		30-150	8		20	A
Dieldrin	62		62		30-150	1		20	A
4,4'-DDE	59		58		30-150	2		20	A
4,4'-DDD	65		64		30-150	1		20	A
4,4'-DDT	58		58		30-150	1		20	A
Endosulfan I	61		61		30-150	1		20	A
Endosulfan II	59		59		30-150	0		20	A
Endosulfan sulfate	54		54		30-150	1		20	A
Methoxychlor	54		57		30-150	7		20	A
cis-Chlordane	57		55		30-150	2		20	A
trans-Chlordane	61		60		30-150	2		20	A

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 08-09 Batch: WG1436069-2 WG1436069-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	63		62		30-150	A
Decachlorobiphenyl	47		53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		55		30-150	B
Decachlorobiphenyl	69		58		30-150	B



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG1436138-2 WG1436138-3									
Delta-BHC	81		81		30-150	0		30	A
Lindane	76		74		30-150	3		30	A
Alpha-BHC	80		78		30-150	3		30	A
Beta-BHC	80		83		30-150	4		30	A
Heptachlor	90		89		30-150	1		30	A
Aldrin	77		75		30-150	3		30	A
Heptachlor epoxide	76		74		30-150	3		30	A
Endrin	87		83		30-150	5		30	A
Endrin aldehyde	64		57		30-150	12		30	A
Endrin ketone	72		67		30-150	7		30	A
Dieldrin	80		76		30-150	5		30	A
4,4'-DDE	80		77		30-150	4		30	A
4,4'-DDD	86		82		30-150	5		30	A
4,4'-DDT	80		76		30-150	5		30	A
Endosulfan I	75		72		30-150	4		30	A
Endosulfan II	80		76		30-150	5		30	A
Endosulfan sulfate	65		58		30-150	11		30	A
Methoxychlor	85		80		30-150	6		30	A
cis-Chlordane	74		71		30-150	4		30	A
trans-Chlordane	76		73		30-150	4		30	A

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	---------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG1436138-2 WG1436138-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		70		30-150	A
Decachlorobiphenyl	95		91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		82		30-150	B
Decachlorobiphenyl	77		71		30-150	B

## METALS

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-01

Date Collected: 11/18/20 08:40

Client ID: S-12 (3-4)

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	6890		mg/kg	8.75	2.36	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.37	0.332	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Arsenic, Total	3.88		mg/kg	0.875	0.182	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Barium, Total	95.6		mg/kg	0.875	0.152	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.437	0.029	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Cadmium, Total	0.647	J	mg/kg	0.875	0.086	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Calcium, Total	53100		mg/kg	87.5	30.6	20	11/21/20 08:11	11/23/20 11:50	EPA 3050B	1,6010D	GD
Chromium, Total	11.2		mg/kg	0.875	0.084	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Cobalt, Total	5.51		mg/kg	1.75	0.145	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Copper, Total	21.8		mg/kg	0.875	0.226	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Iron, Total	10800		mg/kg	4.37	0.790	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Lead, Total	99.2		mg/kg	4.37	0.234	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Magnesium, Total	15800		mg/kg	8.75	1.35	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Manganese, Total	212		mg/kg	0.875	0.139	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.078	0.051	1	11/21/20 09:08	11/23/20 09:11	EPA 7471B	1,7471B	EW
Nickel, Total	10.7		mg/kg	2.19	0.212	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Potassium, Total	1400		mg/kg	219	12.6	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Selenium, Total	ND		mg/kg	1.75	0.226	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.875	0.248	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Sodium, Total	846		mg/kg	175	2.76	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.75	0.276	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Vanadium, Total	24.9		mg/kg	0.875	0.178	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD
Zinc, Total	101		mg/kg	4.37	0.256	2	11/21/20 08:11	11/23/20 10:48	EPA 3050B	1,6010D	GD



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-02

Date Collected: 11/18/20 09:00

Client ID: S-13 (5-6)

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	6180		mg/kg	8.66	2.34	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.33	0.329	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Arsenic, Total	4.35		mg/kg	0.866	0.180	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Barium, Total	776		mg/kg	0.866	0.151	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.433	0.029	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Cadmium, Total	2.60		mg/kg	0.866	0.085	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Calcium, Total	49600		mg/kg	86.6	30.3	20	11/21/20 08:11	11/23/20 12:08	EPA 3050B	1,6010D	GD
Chromium, Total	19.3		mg/kg	0.866	0.083	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Cobalt, Total	5.64		mg/kg	1.73	0.144	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Copper, Total	25.3		mg/kg	0.866	0.223	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Iron, Total	10600		mg/kg	4.33	0.782	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Lead, Total	964		mg/kg	4.33	0.232	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Magnesium, Total	11800		mg/kg	8.66	1.33	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Manganese, Total	200		mg/kg	0.866	0.138	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Mercury, Total	1.82		mg/kg	0.085	0.055	1	11/21/20 09:08	11/23/20 09:24	EPA 7471B	1,7471B	EW
Nickel, Total	14.1		mg/kg	2.16	0.209	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Potassium, Total	2130		mg/kg	216	12.5	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Selenium, Total	0.805	J	mg/kg	1.73	0.223	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.866	0.245	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Sodium, Total	473		mg/kg	173	2.73	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.73	0.273	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Vanadium, Total	25.0		mg/kg	0.866	0.176	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD
Zinc, Total	1030		mg/kg	4.33	0.254	2	11/21/20 08:11	11/23/20 11:07	EPA 3050B	1,6010D	GD



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-03

Date Collected: 11/18/20 09:10

Client ID: S-14 (4-5)

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	6600		mg/kg	8.45	2.28	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.22	0.321	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Arsenic, Total	2.83		mg/kg	0.845	0.176	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Barium, Total	70.5		mg/kg	0.845	0.147	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.422	0.028	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Cadmium, Total	0.515	J	mg/kg	0.845	0.083	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Calcium, Total	55500		mg/kg	84.5	29.6	20	11/21/20 08:11	11/23/20 12:13	EPA 3050B	1,6010D	GD
Chromium, Total	11.6		mg/kg	0.845	0.081	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Cobalt, Total	8.29		mg/kg	1.69	0.140	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Copper, Total	35.5		mg/kg	0.845	0.218	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Iron, Total	9620		mg/kg	4.22	0.763	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Lead, Total	16.1		mg/kg	4.22	0.226	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Magnesium, Total	7310		mg/kg	8.45	1.30	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Manganese, Total	266		mg/kg	0.845	0.134	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Mercury, Total	0.068	J	mg/kg	0.087	0.057	1	11/21/20 09:08	11/23/20 09:27	EPA 7471B	1,7471B	EW
Nickel, Total	18.4		mg/kg	2.11	0.204	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Potassium, Total	2080		mg/kg	211	12.2	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Selenium, Total	0.684	J	mg/kg	1.69	0.218	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.845	0.239	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Sodium, Total	338		mg/kg	169	2.66	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.69	0.266	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Vanadium, Total	44.2		mg/kg	0.845	0.172	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD
Zinc, Total	85.9		mg/kg	4.22	0.248	2	11/21/20 08:11	11/23/20 11:12	EPA 3050B	1,6010D	GD



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-04

Date Collected: 11/18/20 12:15

Client ID: S-15 (5-6)

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	5910		mg/kg	8.77	2.37	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.39	0.333	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Arsenic, Total	4.24		mg/kg	0.877	0.182	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Barium, Total	172		mg/kg	0.877	0.153	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.439	0.029	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Cadmium, Total	0.289	J	mg/kg	0.877	0.086	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Calcium, Total	99000		mg/kg	87.7	30.7	20	11/21/20 08:11	11/23/20 12:18	EPA 3050B	1,6010D	GD
Chromium, Total	9.25		mg/kg	0.877	0.084	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Cobalt, Total	4.00		mg/kg	1.75	0.146	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Copper, Total	9.91		mg/kg	0.877	0.226	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Iron, Total	7160		mg/kg	4.39	0.792	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Lead, Total	128		mg/kg	4.39	0.235	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Magnesium, Total	18900		mg/kg	8.77	1.35	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Manganese, Total	119		mg/kg	0.877	0.139	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Mercury, Total	0.099		mg/kg	0.085	0.055	1	11/21/20 09:08	11/23/20 09:31	EPA 7471B	1,7471B	EW
Nickel, Total	9.13		mg/kg	2.19	0.212	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Potassium, Total	1090		mg/kg	219	12.6	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Selenium, Total	0.491	J	mg/kg	1.75	0.226	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.877	0.248	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Sodium, Total	512		mg/kg	175	2.76	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.75	0.276	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Vanadium, Total	18.5		mg/kg	0.877	0.178	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD
Zinc, Total	441		mg/kg	4.39	0.257	2	11/21/20 08:11	11/23/20 11:17	EPA 3050B	1,6010D	GD



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-05

Date Collected: 11/18/20 12:30

Client ID: S-16 (4-5)

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	6370		mg/kg	8.93	2.41	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.46	0.339	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Arsenic, Total	4.62		mg/kg	0.893	0.186	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Barium, Total	187		mg/kg	0.893	0.155	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.446	0.030	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Cadmium, Total	0.598	J	mg/kg	0.893	0.088	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Calcium, Total	63300		mg/kg	89.3	31.2	20	11/21/20 08:11	11/23/20 13:27	EPA 3050B	1,6010D	GD
Chromium, Total	11.7		mg/kg	0.893	0.086	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Cobalt, Total	4.53		mg/kg	1.78	0.148	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Copper, Total	24.3		mg/kg	0.893	0.230	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Iron, Total	10300		mg/kg	4.46	0.806	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Lead, Total	251		mg/kg	4.46	0.239	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Magnesium, Total	9400		mg/kg	8.93	1.37	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Manganese, Total	217		mg/kg	0.893	0.142	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Mercury, Total	0.081		mg/kg	0.078	0.051	1	11/21/20 09:08	11/23/20 09:40	EPA 7471B	1,7471B	EW
Nickel, Total	11.0		mg/kg	2.23	0.216	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Potassium, Total	1710		mg/kg	223	12.8	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Selenium, Total	0.759	J	mg/kg	1.78	0.230	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.893	0.253	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Sodium, Total	474		mg/kg	178	2.81	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.78	0.281	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Vanadium, Total	28.0		mg/kg	0.893	0.181	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD
Zinc, Total	186		mg/kg	4.46	0.262	2	11/21/20 08:11	11/23/20 12:22	EPA 3050B	1,6010D	GD





Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-06

Date Collected: 11/18/20 12:50

Client ID: S-17 (2-3)

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	5450		mg/kg	9.30	2.51	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.65	0.353	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Arsenic, Total	3.78		mg/kg	0.930	0.193	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Barium, Total	364		mg/kg	0.930	0.162	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.465	0.031	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Cadmium, Total	1.07		mg/kg	0.930	0.091	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Calcium, Total	73900		mg/kg	93.0	32.6	20	11/21/20 08:11	11/23/20 13:54	EPA 3050B	1,6010D	GD
Chromium, Total	11.1		mg/kg	0.930	0.089	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Cobalt, Total	4.59		mg/kg	1.86	0.154	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Copper, Total	9.13		mg/kg	0.930	0.240	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Iron, Total	8540		mg/kg	4.65	0.840	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Lead, Total	203		mg/kg	4.65	0.249	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Magnesium, Total	11000		mg/kg	9.30	1.43	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Manganese, Total	186		mg/kg	0.930	0.148	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Mercury, Total	0.417		mg/kg	0.085	0.055	1	11/21/20 09:08	11/23/20 09:44	EPA 7471B	1,7471B	EW
Nickel, Total	8.84		mg/kg	2.32	0.225	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Potassium, Total	903		mg/kg	232	13.4	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Selenium, Total	0.670	J	mg/kg	1.86	0.240	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.930	0.263	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Sodium, Total	994		mg/kg	186	2.93	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.86	0.293	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Vanadium, Total	33.8		mg/kg	0.930	0.189	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD
Zinc, Total	246		mg/kg	4.65	0.272	2	11/21/20 08:11	11/23/20 12:27	EPA 3050B	1,6010D	GD



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-07

Date Collected: 11/18/20 13:15

Client ID: S-18 (3-4)

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	5160		mg/kg	9.34	2.52	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Antimony, Total	ND		mg/kg	4.67	0.355	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Arsenic, Total	2.75		mg/kg	0.934	0.194	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Barium, Total	75.3		mg/kg	0.934	0.162	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.467	0.031	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Cadmium, Total	0.243	J	mg/kg	0.934	0.092	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Calcium, Total	24300		mg/kg	9.34	3.27	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Chromium, Total	15.2		mg/kg	0.934	0.090	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Cobalt, Total	4.14		mg/kg	1.87	0.155	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Copper, Total	4.49		mg/kg	0.934	0.241	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Iron, Total	7390		mg/kg	4.67	0.843	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Lead, Total	21.7		mg/kg	4.67	0.250	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Magnesium, Total	6110		mg/kg	9.34	1.44	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Manganese, Total	160		mg/kg	0.934	0.148	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.083	0.054	1	11/21/20 09:08	11/23/20 09:47	EPA 7471B	1,7471B	EW
Nickel, Total	9.52		mg/kg	2.33	0.226	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Potassium, Total	2150		mg/kg	233	13.4	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Selenium, Total	0.458	J	mg/kg	1.87	0.241	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.934	0.264	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Sodium, Total	516		mg/kg	187	2.94	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Thallium, Total	ND		mg/kg	1.87	0.294	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Vanadium, Total	28.2		mg/kg	0.934	0.190	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD
Zinc, Total	33.9		mg/kg	4.67	0.274	2	11/21/20 08:11	11/23/20 12:45	EPA 3050B	1,6010D	GD



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-08

Date Collected: 11/18/20 11:15

Client ID: TW-4

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	236.		mg/l	0.100	0.0327	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.04000	0.00429	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Arsenic, Total	0.03043		mg/l	0.00500	0.00165	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Barium, Total	4.612		mg/l	0.00500	0.00173	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Beryllium, Total	0.02189		mg/l	0.00500	0.00107	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00117	J	mg/l	0.00200	0.00059	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Calcium, Total	323.		mg/l	1.00	0.394	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Chromium, Total	0.7479		mg/l	0.01000	0.00178	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Cobalt, Total	0.3013		mg/l	0.00500	0.00163	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Copper, Total	1.617		mg/l	0.01000	0.00384	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Iron, Total	542.		mg/l	0.700	0.191	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Lead, Total	0.3516		mg/l	0.01000	0.00343	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Magnesium, Total	170.		mg/l	0.700	0.242	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Manganese, Total	12.05		mg/l	0.01000	0.00440	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00200	0.00091	1	11/21/20 06:28	11/23/20 11:37	EPA 7470A	1,7470A	EW
Nickel, Total	1.036		mg/l	0.02000	0.00556	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Potassium, Total	184.		mg/l	1.00	0.309	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Selenium, Total	0.0185	J	mg/l	0.0500	0.0173	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00400	0.00163	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Sodium, Total	636.		mg/l	1.00	0.293	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Thallium, Total	0.00689	J	mg/l	0.01000	0.00143	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Vanadium, Total	0.5850		mg/l	0.05000	0.01570	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
Zinc, Total	1.016		mg/l	0.1000	0.03410	5	11/21/20 05:44	11/23/20 09:07	EPA 3005A	1,6020B	AM
<b>Dissolved Metals - Mansfield Lab</b>											
Aluminum, Dissolved	0.00652	J	mg/l	0.0100	0.00327	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00068	J	mg/l	0.00400	0.00042	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00024	J	mg/l	0.00050	0.00016	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.1671		mg/l	0.00050	0.00017	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-08

Date Collected: 11/18/20 11:15

Client ID: TW-4

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Calcium, Dissolved	131.		mg/l	0.100	0.0394	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	0.00911		mg/l	0.00050	0.00016	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Iron, Dissolved	0.0227	J	mg/l	0.0500	0.0191	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	53.2		mg/l	0.0700	0.0242	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Manganese, Dissolved	2.281		mg/l	0.00100	0.00044	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/20/20 21:46	11/23/20 11:00	EPA 7470A	1,7470A	EW
Nickel, Dissolved	0.03449		mg/l	0.00200	0.00055	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Potassium, Dissolved	23.6		mg/l	0.100	0.0309	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Sodium, Dissolved	615.		mg/l	5.00	1.46	50	11/20/20 20:24	11/23/20 10:27	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	11/20/20 20:24	11/23/20 09:21	EPA 3005A	1,6020B	AM



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-09

Date Collected: 11/18/20 14:30

Client ID: TW-5

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	13.9		mg/l	0.0500	0.0164	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.02000	0.00214	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00158	J	mg/l	0.00250	0.00082	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Barium, Total	0.2887		mg/l	0.00250	0.00086	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00096	J	mg/l	0.00250	0.00053	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00100	0.00029	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Calcium, Total	143.		mg/l	0.500	0.197	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Chromium, Total	0.03503		mg/l	0.00500	0.00089	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Cobalt, Total	0.01262		mg/l	0.00250	0.00081	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Copper, Total	0.03861		mg/l	0.00500	0.00192	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Iron, Total	33.7		mg/l	0.350	0.0955	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Lead, Total	0.01006		mg/l	0.00500	0.00171	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Magnesium, Total	146.		mg/l	0.350	0.121	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Manganese, Total	1.452		mg/l	0.00500	0.00220	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/21/20 06:28	11/23/20 11:39	EPA 7470A	1,7470A	EW
Nickel, Total	0.04679		mg/l	0.01000	0.00278	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Potassium, Total	16.0		mg/l	0.500	0.154	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.0250	0.00865	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00200	0.00081	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Sodium, Total	749.		mg/l	0.500	0.146	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00500	0.00071	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Vanadium, Total	0.02619		mg/l	0.02500	0.00785	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
Zinc, Total	0.06552		mg/l	0.05000	0.01705	5	11/21/20 05:44	11/23/20 09:12	EPA 3005A	1,6020B	AM
<b>Dissolved Metals - Mansfield Lab</b>											
Aluminum, Dissolved	0.0165	J	mg/l	0.0500	0.0164	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.02000	0.00214	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00250	0.00082	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.1208		mg/l	0.00250	0.00086	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00250	0.00053	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-09

Date Collected: 11/18/20 14:30

Client ID: TW-5

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00100	0.00029	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Calcium, Dissolved	134.		mg/l	0.500	0.197	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00500	0.00089	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	0.00191	J	mg/l	0.00250	0.00081	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00500	0.00192	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.250	0.0955	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00500	0.00171	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	158.		mg/l	0.350	0.121	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.8789		mg/l	0.00500	0.00220	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/20/20 21:46	11/23/20 11:07	EPA 7470A	1,7470A	EW
Nickel, Dissolved	0.00641	J	mg/l	0.01000	0.00278	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Potassium, Dissolved	11.4		mg/l	0.500	0.154	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.0250	0.00865	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00200	0.00081	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Sodium, Dissolved	880.		mg/l	0.500	0.146	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00250	0.00071	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.02500	0.00785	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.05000	0.01705	5	11/20/20 20:24	11/23/20 09:16	EPA 3005A	1,6020B	AM



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08-09 Batch: WG1436766-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Iron, Total	0.0216	J	mg/l	0.0700	0.0191	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Thallium, Total	0.00019	J	mg/l	0.00100	0.00014	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	11/21/20 05:44	11/23/20 08:38	1,6020B	AM

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 08-09 Batch: WG1436767-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/21/20 06:28	11/23/20 11:09	1,7470A	EW



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

## Method Blank Analysis Batch Quality Control

### Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 08-09 Batch: WG1436769-1										
Aluminum, Dissolved	0.00477	J	mg/l	0.0100	0.00327	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Sodium, Dissolved	0.0456	J	mg/l	0.100	0.0293	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	11/20/20 20:24	11/23/20 08:40	1,6020B	AM

### Prep Information

Digestion Method: EPA 3005A





**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 08-09 Batch: WG1436771-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/20/20 21:46	11/23/20 10:56	1,7470A	EW

### Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1436842-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Antimony, Total	0.216	J	mg/kg	2.00	0.152	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Arsenic, Total	0.124	J	mg/kg	0.400	0.083	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Barium, Total	ND		mg/kg	0.400	0.070	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.200	0.013	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Calcium, Total	ND		mg/kg	4.00	1.40	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Chromium, Total	0.116	J	mg/kg	0.400	0.038	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Cobalt, Total	ND		mg/kg	0.800	0.066	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Copper, Total	ND		mg/kg	0.400	0.103	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Iron, Total	ND		mg/kg	2.00	0.361	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Lead, Total	0.116	J	mg/kg	2.00	0.107	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Magnesium, Total	ND		mg/kg	4.00	0.616	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Manganese, Total	ND		mg/kg	0.400	0.064	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Nickel, Total	ND		mg/kg	1.00	0.097	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Potassium, Total	ND		mg/kg	100	5.76	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Selenium, Total	0.120	J	mg/kg	0.800	0.103	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Silver, Total	ND		mg/kg	0.400	0.113	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Sodium, Total	ND		mg/kg	80.0	1.26	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Thallium, Total	ND		mg/kg	0.800	0.126	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Vanadium, Total	ND		mg/kg	0.400	0.081	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD
Zinc, Total	ND		mg/kg	2.00	0.117	1	11/21/20 08:11	11/23/20 10:39	1,6010D	GD

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## Method Blank Analysis Batch Quality Control

### Prep Information

---

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1436844-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	11/21/20 09:08	11/23/20 09:04	1,7471B	EW

### Prep Information

---

Digestion Method: EPA 7471B

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 329 HUGUENOT ST

**Project Number:** 11571

**Lab Number:** L2051312

**Report Date:** 11/23/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1436766-2								
Aluminum, Total	102		-		80-120	-		
Antimony, Total	97		-		80-120	-		
Arsenic, Total	102		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	102		-		80-120	-		
Cadmium, Total	108		-		80-120	-		
Calcium, Total	105		-		80-120	-		
Chromium, Total	97		-		80-120	-		
Cobalt, Total	97		-		80-120	-		
Copper, Total	100		-		80-120	-		
Iron, Total	103		-		80-120	-		
Lead, Total	103		-		80-120	-		
Magnesium, Total	108		-		80-120	-		
Manganese, Total	95		-		80-120	-		
Nickel, Total	94		-		80-120	-		
Potassium, Total	108		-		80-120	-		
Selenium, Total	105		-		80-120	-		
Silver, Total	103		-		80-120	-		
Sodium, Total	105		-		80-120	-		
Thallium, Total	102		-		80-120	-		
Vanadium, Total	97		-		80-120	-		

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 329 HUGUENOT ST

**Project Number:** 11571

**Lab Number:** L2051312

**Report Date:** 11/23/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1436766-2					
Zinc, Total	105	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1436767-2					
Mercury, Total	104	-	80-120	-	

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 329 HUGUENOT ST

**Project Number:** 11571

**Lab Number:** L2051312

**Report Date:** 11/23/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1436769-2					
Aluminum, Dissolved	92	-	80-120	-	
Antimony, Dissolved	91	-	80-120	-	
Arsenic, Dissolved	100	-	80-120	-	
Barium, Dissolved	95	-	80-120	-	
Beryllium, Dissolved	94	-	80-120	-	
Cadmium, Dissolved	100	-	80-120	-	
Calcium, Dissolved	100	-	80-120	-	
Chromium, Dissolved	92	-	80-120	-	
Cobalt, Dissolved	93	-	80-120	-	
Copper, Dissolved	96	-	80-120	-	
Iron, Dissolved	95	-	80-120	-	
Lead, Dissolved	100	-	80-120	-	
Magnesium, Dissolved	100	-	80-120	-	
Manganese, Dissolved	91	-	80-120	-	
Nickel, Dissolved	89	-	80-120	-	
Potassium, Dissolved	98	-	80-120	-	
Selenium, Dissolved	99	-	80-120	-	
Silver, Dissolved	99	-	80-120	-	
Sodium, Dissolved	100	-	80-120	-	
Thallium, Dissolved	98	-	80-120	-	
Vanadium, Dissolved	93	-	80-120	-	

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 329 HUGUENOT ST

**Project Number:** 11571

**Lab Number:** L2051312

**Report Date:** 11/23/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1436769-2					
Zinc, Dissolved	100	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 Batch: WG1436771-2					
Mercury, Dissolved	107	-	80-120	-	

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1436842-2 SRM Lot Number: D109-540					
Aluminum, Total	69	-	50-150	-	
Antimony, Total	140	-	19-250	-	
Arsenic, Total	102	-	70-130	-	
Barium, Total	90	-	75-125	-	
Beryllium, Total	89	-	75-125	-	
Cadmium, Total	99	-	75-125	-	
Calcium, Total	88	-	73-128	-	
Chromium, Total	94	-	70-130	-	
Cobalt, Total	100	-	75-125	-	
Copper, Total	92	-	75-125	-	
Iron, Total	97	-	35-165	-	
Lead, Total	99	-	72-128	-	
Magnesium, Total	89	-	62-138	-	
Manganese, Total	89	-	74-126	-	
Nickel, Total	101	-	70-130	-	
Potassium, Total	81	-	59-141	-	
Selenium, Total	105	-	68-132	-	
Silver, Total	98	-	68-131	-	
Sodium, Total	95	-	35-165	-	
Thallium, Total	96	-	68-131	-	
Vanadium, Total	102	-	59-141	-	

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 329 HUGUENOT ST

**Project Number:** 11571

**Lab Number:** L2051312

**Report Date:** 11/23/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1436842-2 SRM Lot Number: D109-540					
Zinc, Total	101	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1436844-2 SRM Lot Number: D109-540					
Mercury, Total	88	-	60-140	-	



### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1436766-3 WG1436766-4 QC Sample: L2049380-02 Client ID: MS Sample												
Aluminum, Total	0.007J	2	1.91	96		1.98	99		75-125	4		20
Antimony, Total	0.00064J	0.5	0.5354	107		0.5290	106		75-125	1		20
Arsenic, Total	0.00872	0.12	0.1319	103		0.1315	102		75-125	0		20
Barium, Total	0.2135	2	2.176	98		2.176	98		75-125	0		20
Beryllium, Total	0.00040J	0.05	0.05213	104		0.05096	102		75-125	2		20
Cadmium, Total	ND	0.051	0.05444	107		0.05382	106		75-125	1		20
Calcium, Total	57.1	10	63.5	64	Q	64.7	76		75-125	2		20
Chromium, Total	0.00114	0.2	0.1893	94		0.1900	94		75-125	0		20
Cobalt, Total	0.00216	0.5	0.4812	96		0.4796	95		75-125	0		20
Copper, Total	0.00062J	0.25	0.2436	97		0.2484	99		75-125	2		20
Iron, Total	11.9	1	12.3	40	Q	12.2	30	Q	75-125	1		20
Lead, Total	ND	0.51	0.5188	102		0.5191	102		75-125	0		20
Magnesium, Total	18.5	10	27.7	92		28.3	98		75-125	2		20
Manganese, Total	1.129	0.5	1.565	87		1.568	88		75-125	0		20
Nickel, Total	0.00930	0.5	0.4725	93		0.4666	91		75-125	1		20
Potassium, Total	57.8	10	68.5	107		69.7	119		75-125	2		20
Selenium, Total	ND	0.12	0.132	110		0.128	107		75-125	3		20
Silver, Total	ND	0.05	0.05070	101		0.05057	101		75-125	0		20
Sodium, Total	96.3	10	97.0	7	Q	99.4	31	Q	75-125	2		20
Thallium, Total	0.00027J	0.12	0.1268	106		0.1238	103		75-125	2		20
Vanadium, Total	ND	0.5	0.4788	96		0.4771	95		75-125	0		20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1436766-3 WG1436766-4 QC Sample: L2049380-02 Client ID: MS Sample									
Zinc, Total	0.01392	0.5	0.5296	103	0.5241	102	75-125	1	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1436766-7 WG1436766-8 QC Sample: L2049397-02 Client ID: MS Sample									
Aluminum, Total	0.007J	2	1.91	96	1.98	99	75-125	4	20
Antimony, Total	0.0006J	0.5	0.5354	107	0.5290	106	75-125	1	20
Arsenic, Total	0.00872	0.12	0.1319	103	0.1315	102	75-125	0	20
Barium, Total	0.2135	2	2.176	98	2.176	98	75-125	0	20
Beryllium, Total	0.00040J	0.05	0.05213	104	0.05096	102	75-125	2	20
Cadmium, Total	ND	0.051	0.05444	107	0.05382	106	75-125	1	20
Calcium, Total	57.1	10	63.5	64	Q 64.7	76	75-125	2	20
Chromium, Total	0.00114	0.2	0.1893	94	0.1900	94	75-125	0	20
Cobalt, Total	0.0022	0.5	0.4812	96	0.4796	95	75-125	0	20
Copper, Total	0.0006J	0.25	0.2436	97	0.2484	99	75-125	2	20
Iron, Total	11.9	1	12.3	40	Q 12.2	30	Q 75-125	1	20
Lead, Total	ND	0.51	0.5188	102	0.5191	102	75-125	0	20
Magnesium, Total	18.5	10	27.7	92	28.3	98	75-125	2	20
Manganese, Total	1.129	0.5	1.565	87	1.568	88	75-125	0	20
Nickel, Total	0.00930	0.5	0.4725	93	0.4666	91	75-125	1	20
Potassium, Total	57.8	10	68.5	107	69.7	119	75-125	2	20
Selenium, Total	ND	0.12	0.132	110	0.128	107	75-125	3	20
Silver, Total	ND	0.05	0.05070	101	0.05057	101	75-125	0	20
Sodium, Total	96.3	10	97.0	7	Q 99.4	31	Q 75-125	2	20
Thallium, Total	0.0003J	0.12	0.1268	106	0.1238	103	75-125	2	20
Vanadium, Total	ND	0.5	0.4788	96	0.4771	95	75-125	0	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1436766-7 WG1436766-8 QC Sample: L2049397-02 Client ID: MS Sample									
Zinc, Total	0.0139	0.5	0.5296	103	0.5241	102	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1436767-3 WG1436767-4 QC Sample: L2049380-02 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00429	86	0.00419	84	75-125	2	20
Total Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1436767-5 WG1436767-6 QC Sample: L2049397-02 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00429	86	0.00419	84	75-125	2	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1436769-3 QC Sample: L2051312-09 Client ID: TW-5									
Aluminum, Dissolved	0.0165J	2	1.88	94	-	-	75-125	-	20
Antimony, Dissolved	ND	0.5	0.5446	109	-	-	75-125	-	20
Arsenic, Dissolved	ND	0.12	0.1214	101	-	-	75-125	-	20
Barium, Dissolved	0.1208	2	2.066	97	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.04753	95	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05091	100	-	-	75-125	-	20
Calcium, Dissolved	134.	10	141	70	Q	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.1868	93	-	-	75-125	-	20
Cobalt, Dissolved	0.00191J	0.5	0.4833	97	-	-	75-125	-	20
Copper, Dissolved	ND	0.25	0.2373	95	-	-	75-125	-	20
Iron, Dissolved	ND	1	1.00	100	-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5157	101	-	-	75-125	-	20
Magnesium, Dissolved	158.	10	165	70	Q	-	75-125	-	20
Manganese, Dissolved	0.8789	0.5	1.337	92	-	-	75-125	-	20
Nickel, Dissolved	0.00641J	0.5	0.4624	92	-	-	75-125	-	20
Potassium, Dissolved	11.4	10	21.7	103	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.126	105	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.04965	99	-	-	75-125	-	20
Sodium, Dissolved	880.	10	874	0	Q	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1212	101	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.4670	93	-	-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1436769-3 QC Sample: L2051312-09 Client ID: TW-5									
Zinc, Dissolved	ND	0.5	0.4818	96	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1436771-3 QC Sample: L2051312-08 Client ID: TW-4									
Mercury, Dissolved	ND	0.005	0.00498	100	-	-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07    QC Batch ID: WG1436842-3    QC Sample: L2051312-01    Client ID: S-12 (3-4)									
Aluminum, Total	6890	177	8000	628	Q	-	75-125	-	20
Antimony, Total	ND	44.2	34.2	77		-	75-125	-	20
Arsenic, Total	3.88	10.6	13.4	90		-	75-125	-	20
Barium, Total	95.6	177	293	112		-	75-125	-	20
Beryllium, Total	ND	4.42	3.69	84		-	75-125	-	20
Cadmium, Total	0.647J	4.5	4.94	110		-	75-125	-	20
Calcium, Total	53100	883	41700	0	Q	-	75-125	-	20
Chromium, Total	11.2	17.7	27.5	92		-	75-125	-	20
Cobalt, Total	5.51	44.2	43.0	85		-	75-125	-	20
Copper, Total	21.8	22.1	43.2	97		-	75-125	-	20
Iron, Total	10800	88.3	9870	0	Q	-	75-125	-	20
Lead, Total	99.2	45	158	130	Q	-	75-125	-	20
Magnesium, Total	15800	883	11800	0	Q	-	75-125	-	20
Manganese, Total	212	44.2	208	0	Q	-	75-125	-	20
Nickel, Total	10.7	44.2	45.5	79		-	75-125	-	20
Potassium, Total	1400	883	2560	131	Q	-	75-125	-	20
Selenium, Total	ND	10.6	10.8	102		-	75-125	-	20
Silver, Total	ND	26.5	27.3	103		-	75-125	-	20
Sodium, Total	846	883	1830	111		-	75-125	-	20
Thallium, Total	ND	10.6	9.07	86		-	75-125	-	20
Vanadium, Total	24.9	44.2	65.4	92		-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1436842-3 QC Sample: L2051312-01 Client ID: S-12 (3-4)									
Zinc, Total	101	44.2	144	97	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1436844-3 QC Sample: L2051312-01 Client ID: S-12 (3-4)									
Mercury, Total	ND	0.151	0.157	104	-	-	80-120	-	20



## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1436769-4 QC Sample: L2051312-09 Client ID: TW-5						
Aluminum, Dissolved	0.0165J	ND	mg/l	NC		20
Antimony, Dissolved	ND	0.00259J	mg/l	NC		20
Arsenic, Dissolved	ND	ND	mg/l	NC		20
Barium, Dissolved	0.1208	0.1192	mg/l	1		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Calcium, Dissolved	134.	133	mg/l	1		20
Chromium, Dissolved	ND	ND	mg/l	NC		20
Cobalt, Dissolved	0.00191J	0.00152J	mg/l	NC		20
Copper, Dissolved	ND	ND	mg/l	NC		20
Iron, Dissolved	ND	ND	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Magnesium, Dissolved	158.	153	mg/l	3		20
Manganese, Dissolved	0.8789	0.8512	mg/l	3		20
Nickel, Dissolved	0.00641J	0.00623J	mg/l	NC		20
Potassium, Dissolved	11.4	11.2	mg/l	2		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	880.	859	mg/l	2		20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1436769-4 QC Sample: L2051312-09 Client ID: TW-5					
Thallium, Dissolved	ND	0.00159J	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 08-09 QC Batch ID: WG1436771-4 QC Sample: L2051312-08 Client ID: TW-4					
Mercury, Dissolved	ND	ND	mg/l	NC	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1436842-4 QC Sample: L2051312-01 Client ID: S-12 (3-4)					
Aluminum, Total	6890	7990	mg/kg	15	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	3.88	2.65	mg/kg	38 Q	20
Barium, Total	95.6	107	mg/kg	11	20
Beryllium, Total	ND	ND	mg/kg	NC	20
Cadmium, Total	0.647J	0.615J	mg/kg	NC	20
Chromium, Total	11.2	13.7	mg/kg	20	20
Cobalt, Total	5.51	8.21	mg/kg	39 Q	20
Copper, Total	21.8	24.1	mg/kg	10	20
Iron, Total	10800	12700	mg/kg	16	20
Lead, Total	99.2	67.8	mg/kg	38 Q	20
Magnesium, Total	15800	13500	mg/kg	16	20
Manganese, Total	212	254	mg/kg	18	20
Nickel, Total	10.7	14.2	mg/kg	28 Q	20
Potassium, Total	1400	2540	mg/kg	58 Q	20
Selenium, Total	ND	0.496J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	846	671	mg/kg	23 Q	20
Thallium, Total	ND	ND	mg/kg	NC	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1436842-4 QC Sample: L2051312-01 Client ID: S-12 (3-4)					
Vanadium, Total	24.9	26.8	mg/kg	7	20
Zinc, Total	101	88.2	mg/kg	14	20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1436842-4 QC Sample: L2051312-01 Client ID: S-12 (3-4)					
Calcium, Total	53100	46000	mg/kg	14	20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1436844-4 QC Sample: L2051312-01 Client ID: S-12 (3-4)					
Mercury, Total	ND	0.070J	mg/kg	NC	20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-01  
**Client ID:** S-12 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 08:40  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	89.3		%	0.100	NA	1	-	11/19/20 09:51	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	11/19/20 17:50	11/20/20 14:15	1,9010C/9012B	CR



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-02  
**Client ID:** S-13 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:00  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	91.4		%	0.100	NA	1	-	11/19/20 09:51	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	11/19/20 17:50	11/20/20 14:18	1,9010C/9012B	CR



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-03  
**Client ID:** S-14 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 09:10  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	94.3		%	0.100	NA	1	-	11/19/20 09:51	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	11/19/20 17:50	11/20/20 14:19	1,9010C/9012B	CR





**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-04  
**Client ID:** S-15 (5-6)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	89.9		%	0.100	NA	1	-	11/19/20 09:51	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	11/19/20 17:50	11/20/20 14:20	1,9010C/9012B	CR



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-05  
**Client ID:** S-16 (4-5)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:30  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	88.9		%	0.100	NA	1	-	11/19/20 09:51	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	11/19/20 17:50	11/20/20 14:47	1,9010C/9012B	CR



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-06  
**Client ID:** S-17 (2-3)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 12:50  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	83.6		%	0.100	NA	1	-	11/19/20 09:51	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	11/19/20 17:50	11/20/20 14:48	1,9010C/9012B	CR



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-07  
**Client ID:** S-18 (3-4)  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 13:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	83.4		%	0.100	NA	1	-	11/19/20 09:51	121,2540G	RI
Cyanide, Total	0.37	J	mg/kg	1.1	0.24	1	11/19/20 17:50	11/20/20 14:23	1,9010C/9012B	CR



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**SAMPLE RESULTS**

**Lab ID:** L2051312-08  
**Client ID:** TW-4  
**Sample Location:** NEW ROCHELLE, NY

**Date Collected:** 11/18/20 11:15  
**Date Received:** 11/18/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	11/19/20 21:20	11/20/20 13:24	1,9010C/9012B	CR



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

## SAMPLE RESULTS

Lab ID: L2051312-09

Date Collected: 11/18/20 14:30

Client ID: TW-5

Date Received: 11/18/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.004	J	mg/l	0.005	0.001	1	11/19/20 21:20	11/20/20 13:25	1,9010C/9012B	CR



Project Name: 329 HUGUENOT ST

Lab Number: L2051312

Project Number: 11571

Report Date: 11/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG1436277-1									
Cyanide, Total	ND	mg/kg	0.98	0.21	1	11/19/20 17:50	11/20/20 14:44	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 08-09 Batch: WG1436376-1									
Cyanide, Total	ND	mg/l	0.005	0.001	1	11/19/20 21:20	11/20/20 14:43	1,9010C/9012B	CR

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG1436277-2 WG1436277-3								
Cyanide, Total	85		92		80-120	1		35
General Chemistry - Westborough Lab Associated sample(s): 08-09 Batch: WG1436376-2 WG1436376-3								
Cyanide, Total	100		100		85-115	0		20



### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1436277-4 WG1436277-5 QC Sample: L2051312-01 Client ID: S-12 (3-4)												
Cyanide, Total	ND	11	10	91		9.7	89		75-125	3		35
General Chemistry - Westborough Lab Associated sample(s): 08-09 QC Batch ID: WG1436376-4 WG1436376-5 QC Sample: L2051055-03 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.123	62	Q	0.121	60	Q	80-120	2		20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 329 HUGUENOT ST

Project Number: 11571

Lab Number: L2051312

Report Date: 11/23/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1436057-1 QC Sample: L2051181-01 Client ID: DUP Sample						
Solids, Total	86.6	86.4	%	0		20

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Serial\_No:**11232018:59  
**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent
B	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2051312-01A	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-01B	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-01C	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-01D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		TS(7)
L2051312-01E	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L2051312-01F	Plastic 8oz unpreserved	B	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2051312-01G	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2051312-01H	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2051312-01X	Vial MeOH preserved split	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-01Y	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-01Z	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-02A	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-02B	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-02C	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-02D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		TS(7)
L2051312-02E	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L2051312-02F	Plastic 8oz unpreserved	B	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)

\*Values in parentheses indicate holding time in days



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Serial\_No:**11232018:59  
**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2051312-02G	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2051312-02H	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2051312-02X	Vial MeOH preserved split	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-02Y	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-02Z	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-03A	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-03B	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-03C	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-03D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		TS(7)
L2051312-03E	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L2051312-03F	Plastic 8oz unpreserved	B	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2051312-03G	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2051312-03H	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2051312-03X	Vial MeOH preserved split	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-03Y	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-03Z	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-04A	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-04B	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-04C	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-04D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		TS(7)
L2051312-04E	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L2051312-04F	Plastic 8oz unpreserved	B	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Serial\_No:**11232018:59  
**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2051312-04G	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),NA-TI(180),K-TI(180),CD-TI(180),CA-TI(180)
L2051312-04H	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2051312-04X	Vial MeOH preserved split	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-04Y	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-04Z	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-05A	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-05B	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-05C	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-05D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		TS(7)
L2051312-05E	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L2051312-05F	Plastic 8oz unpreserved	B	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2051312-05G	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2051312-05H	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2051312-05X	Vial MeOH preserved split	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-05Y	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-05Z	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-06A	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-06B	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-06C	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-06D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		TS(7)
L2051312-06E	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L2051312-06F	Plastic 8oz unpreserved	B	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Serial\_No:**11232018:59  
**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2051312-06G	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2051312-06H	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2051312-06X	Vial MeOH preserved split	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-06Y	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-06Z	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-07A	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-07B	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-07C	5 gram Encore Sampler	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-07D	Plastic 2oz unpreserved for TS	A	NA		5.4	Y	Absent		TS(7)
L2051312-07E	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L2051312-07F	Plastic 8oz unpreserved	B	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2051312-07G	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2051312-07H	Glass 250ml/8oz unpreserved	A	NA		5.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2051312-07X	Vial MeOH preserved split	A	NA		5.4	Y	Absent		NYTCL-8260HLW(14)
L2051312-07Y	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-07Z	Vial Water preserved split	A	NA		5.4	Y	Absent	19-NOV-20 07:31	NYTCL-8260HLW(14)
L2051312-08A	Vial HCl preserved	A	NA		5.4	Y	Absent		NYTCL-8260(14)
L2051312-08B	Vial HCl preserved	A	NA		5.4	Y	Absent		NYTCL-8260(14)
L2051312-08C	Vial HCl preserved	A	NA		5.4	Y	Absent		NYTCL-8260(14)
L2051312-08D	Plastic 250ml unpreserved	B	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2051312-08E	Plastic 250ml unpreserved	B	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2051312-08F	Plastic 250ml NaOH preserved	A	>12	>12	5.4	Y	Absent		TCN-9010(14)
L2051312-08G	Plastic 250ml unpreserved	A	7	7	5.4	Y	Absent		-

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Serial\_No:**11232018:59  
**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2051312-08H	Plastic 250ml HNO3 preserved	A	<2	<2	5.4	Y	Absent		BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),MG-6020T(180),AL-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),CO-6020T(180)
L2051312-08I	Amber 120ml unpreserved	A	7	7	5.4	Y	Absent		NYTCL-8082-LVI(7)
L2051312-08J	Amber 120ml unpreserved	A	7	7	5.4	Y	Absent		NYTCL-8082-LVI(7)
L2051312-08K	Amber 120ml unpreserved	A	7	7	5.4	Y	Absent		NYTCL-8081(7)
L2051312-08L	Amber 120ml unpreserved	A	7	7	5.4	Y	Absent		NYTCL-8081(7)
L2051312-08M	Amber 250ml unpreserved	A	7	7	5.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2051312-08N	Amber 250ml unpreserved	A	7	7	5.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2051312-08X	Plastic 120ml HNO3 preserved Filtrates	A	NA		5.4	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),CO-6020S(180),BE-6020S(180),MG-6020S(180),ZN-6020S(180),FE-6020S(180),CA-6020S(180),CR-6020S(180),PB-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),CD-6020S(180),HG-S(28),AL-6020S(180)
L2051312-09A	Vial HCl preserved	A	NA		5.4	Y	Absent		NYTCL-8260(14)
L2051312-09B	Vial HCl preserved	A	NA		5.4	Y	Absent		NYTCL-8260(14)
L2051312-09C	Vial HCl preserved	A	NA		5.4	Y	Absent		NYTCL-8260(14)
L2051312-09D	Plastic 250ml unpreserved	B	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2051312-09E	Plastic 250ml unpreserved	B	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)
L2051312-09F	Plastic 250ml NaOH preserved	A	>12	>12	5.4	Y	Absent		TCN-9010(14)
L2051312-09G	Plastic 250ml unpreserved	A	7	7	5.4	Y	Absent		-
L2051312-09H	Plastic 250ml HNO3 preserved	A	<2	<2	5.4	Y	Absent		FE-6020T(180),SE-6020T(180),TL-6020T(180),BA-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AL-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180),MG-6020T(180),CO-6020T(180)

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Serial\_No:**11232018:59  
**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2051312-09I	Amber 120ml unpreserved	A	7	7	5.4	Y	Absent		NYTCL-8082-LVI(7)
L2051312-09J	Amber 120ml unpreserved	A	7	7	5.4	Y	Absent		NYTCL-8082-LVI(7)
L2051312-09K	Amber 120ml unpreserved	A	7	7	5.4	Y	Absent		NYTCL-8081(7)
L2051312-09L	Amber 120ml unpreserved	A	7	7	5.4	Y	Absent		NYTCL-8081(7)
L2051312-09M	Amber 250ml unpreserved	A	7	7	5.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2051312-09N	Amber 250ml unpreserved	A	7	7	5.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2051312-09X	Plastic 120ml HNO3 preserved Filtrates	A	NA		5.4	Y	Absent		K-6020S(180),V-6020S(180),CU-6020S(180),SE-6020S(180),MN-6020S(180),ZN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),FE-6020S(180),CR-6020S(180),CA-6020S(180),BA-6020S(180),PB-6020S(180),TL-6020S(180),NI-6020S(180),NA-6020S(180),AG-6020S(180),SB-6020S(180),AS-6020S(180),CD-6020S(180),AL-6020S(180),HG-S(28)
L2051312-10A	Plastic 250ml unpreserved	B	NA		2.2	Y	Absent		A2-NY-537-ISOTOPE(14)



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

Serial\_No:11232018:59  
**Lab Number:** L2051312  
**Report Date:** 11/23/20

### PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
<b>PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)</b>		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
<b>PERFLUOROALKYL SULFONIC ACIDS (PFSAs)</b>		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
<b>FLUOROTELOMERS</b>		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
<b>PERFLUOROALKANE SULFONAMIDES (FASAs)</b>		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
<b>PERFLUOROALKANE SULFONYL SUBSTANCES</b>		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
<b>PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS</b>		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
<b>CHLORO-PERFLUOROALKYL SULFONIC ACIDS</b>		
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
<b>PERFLUOROETHER SULFONIC ACIDS (PFESAs)</b>		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEEESA	113507-82-7
<b>PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)</b>		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

#### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers



**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

**Data Qualifiers**

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** 329 HUGUENOT ST  
**Project Number:** 11571

**Lab Number:** L2051312  
**Report Date:** 11/23/20

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**EPA TO-12** Non-methane organics

**EPA 3C** Fixed gases

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

**EPA 522.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.


**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1** Hg.

**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



 <b>NEW YORK CHAIN OF CUSTODY</b> Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	<b>NEW YORK CHAIN OF CUSTODY</b> Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 1	Date Rec'd in Lab <b>11/19/20</b>	ALPHA Job # <b>L 2051312</b>								
		Project Information Project Name: <b>329 Huguenot st</b> Project Location: <b>New Rochelle, NY</b> Project # <b>11571</b> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EquiS (1 File) <input type="checkbox"/> EquiS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO # <b>11571</b> <b>Phase 1</b>							
Client Information Client: <b>Sesi</b> Address: <b>129 Maple Ave Pine Brook, NJ</b> Phone: <b>973 808 9050</b> Fax: Email: <b>JAM@sesi.org</b>		Project Manager: <b>Jesse Mausner</b> ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: <b>3 DAY</b> Rush (only if pre approved) <input checked="" type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input checked="" type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input checked="" type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:							
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Other project specific requirements/comments:		<b>ANALYSIS</b> T(L+30)/TAL PFAS(537) 1.4 Dioxane (8270 S.M.) Dissolved Metals TAL		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)							
Please specify Metals or TAL.		Sample Specific Comments				Total Bottle							
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date      Time		Sample Matrix	Sampler's Initials								
51312 - 01	S-12 (3-4)	11/18/20	840	Soil	JCS	X	X	X					
-02	S-13 (5-6)		900			X	X	X					
-03	S-14 (4-5)		910			X	X	X					
-04	S-15 (5-6)		1215			X	X	X					
-05	S-16 (4-5)		1230			X	X	X					
-06	S-17 (2-3)		1250			X	X	X					
-07	S-18 (3-4)		1315			X	X	X					
-08	TW-4		1115	GW		X	X	X	X				
-09	TW-5					X	X	X	X				
-10	FB		1340	DZ			X						
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type AE P		Preservative AB CE		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)			
Form No: 01-25 HC (rev. 30-Sept-2013)		Relinquished By: <b>[Signature]</b>		Date/Time: <b>11/18/20 1515</b>		Received By: <b>[Signature]</b>		Date/Time: <b>11/18/20 1515</b>		Received By: <b>[Signature]</b>		Date/Time: <b>11/18/20 20:30</b>	
		Relinquished By: <b>[Signature]</b>		Date/Time: <b>11/18/20 1830</b>		Received By: <b>[Signature]</b>		Date/Time: <b>11/18/20 20:30</b>		Received By: <b>[Signature]</b>		Date/Time: <b>11/19/20 00:15</b>	



## ANALYTICAL REPORT

Lab Number:	L2051740
Client:	Soils Engineering Services, Inc. 12A Maple Avenue Pine Brook, NJ 07058
ATTN:	Jesse Mausner
Phone:	(973) 808-9050
Project Name:	329 HUGUENOT
Project Number:	11571
Report Date:	11/30/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

---

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





**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2051740-01	S-19 (2-3)	SOIL	NEW ROCHELLE, NY	11/19/20 08:45	11/19/20
L2051740-02	S-20 (4-5)	SOIL	NEW ROCHELLE, NY	11/19/20 09:00	11/19/20
L2051740-03	S-21 (3-4)	SOIL	NEW ROCHELLE, NY	11/19/20 09:20	11/19/20
L2051740-04	TW-6	WATER	NEW ROCHELLE, NY	11/19/20 12:00	11/19/20
L2051740-05	FB	FIELD BLANK	NEW ROCHELLE, NY	11/19/20 12:15	11/19/20

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

### Case Narrative

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

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

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

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

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

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

---

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

### Case Narrative (continued)

#### Report Submission

November 30, 2020: This final report includes the results of all requested analyses.

November 24, 2020: This is a preliminary report.

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

#### Volatile Organics

L2051740-04: The pH of the sample was greater than two; however, the sample was analyzed within the method required holding time.

#### Semivolatile Organics

The WG1436954-3 LCSD recovery, associated with L2051740-04, is below the acceptance criteria for benzoic acid (0%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

#### Perfluorinated Alkyl Acids by Isotope Dilution

L2051740-04: The sample was re-extracted within holding time due to QC failures in the original extraction.

The results of the re-extraction are reported.

L2051740-04: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2051740-04, -05, WG1436741-1, and WG1436741-2/-3: The MeOH fraction of the extraction is reported for Perfluorooctanesulfonamide (FOSA) due to better extraction efficiency of the Surrogates (Extracted Internal Standards).

The Extracted Internal Standard recovery for the WG1437404-1 Method Blank, associated with L2051740-01 through -03, is below the acceptance criteria for Perfluoro[13C8]Octanesulfonamide (M8FOSA) (less than 10%); however, all associated samples are non-detect for Perfluorooctanesulfonamide (FOSA) and have an

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

### Case Narrative (continued)

acceptable Extracted Internal Standard recovery for M8FOSA; therefore, no further actions were taken.

The WG1437404-2/-3 LCS/LCSD recoveries, associated with L2051740-01 through -03, are above the acceptance criteria for 1h,1h,2h,2h-perfluorodecanesulfonic acid (8:2fts) (LCSD 138%) and perfluorotetradecanoic acid (pfta) (LCS 136%); however, the associated samples are non-detect to the RL for these target analytes. The results of the original analysis are reported.

WG1437404-2/-3: The Extracted Internal Standard recoveries are below the acceptance criteria for Perfluoro[13C8]Octanesulfonamide (M8FOSA) (less than 10%).

#### Total Metals

L2051740-01, -02, and -03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

L2051740-04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the high concentrations of target elements.

The WG1437599-1 Method Blank, associated with L2051740-01 through -03, has a concentration above the reporting limit for iron. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required.

The WG1437553-3 MS recoveries for aluminum (1320%), calcium (415%), iron (3220%), lead (233%), magnesium (210%), and sodium (250%), performed on L2051740-04, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1437553-3 MS recoveries, performed on L2051740-04, are outside the acceptance criteria for antimony (27%), chromium (129%), manganese (171%), potassium (168%), selenium (70%), and zinc (285%). A post digestion spike was performed and was within acceptance criteria.

The WG1437553-4 Laboratory Duplicate RPDs for aluminum (89%), arsenic (78%), barium (107%), beryllium (63%), cadmium (27%), chromium (60%), cobalt (53%), copper (59%), iron (94%), manganese (32%), nickel (57%), potassium (59%), vanadium (52%), and zinc (47%), performed on L2051740-04, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

### Case Narrative (continued)

#### Dissolved Metals

The WG1437555-3 MS recoveries for calcium (200%), magnesium (60%), and sodium (0%), performed on L2051740-04, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1437555-4 Laboratory Duplicate RPD for copper (108%), performed on L2051740-04, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

#### Cyanide, Total

The WG1437608-2/-3 LCS/LCSD recoveries for cyanide, total (31%/57%), associated with L2051740-01 and -02, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD is above the acceptance criteria for cyanide, total (55%).

The WG1437609-2/-3 LCS/LCSD recoveries for cyanide, total (31%/56%), associated with L2051740-03, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD is above the acceptance criteria for cyanide, total (55%).

WG1437609: A Matrix Spike and Laboratory Duplicate were prepared with the sample batch, however, the native sample was not available for reporting; therefore, the results could not be reported.

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

Authorized Signature:



Kelly Stenstrom

Title: Technical Director/Representative

Date: 11/30/20

# ORGANICS

# VOLATILES

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-01  
 Client ID: S-19 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 08:45  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 11/21/20 15:14  
 Analyst: JC  
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.63	0.25	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.88	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Bromodichloromethane	ND		ug/kg	0.63	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.63	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.63	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	0.21	1
Benzene	ND		ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.73	1
Vinyl chloride	ND		ug/kg	1.3	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-01  
 Client ID: S-19 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 08:45  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.63	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.63	0.17	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.0	0.82	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-01  
 Client ID: S-19 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 08:45  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	1.8	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-02  
 Client ID: S-20 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 11/21/20 15:40  
 Analyst: JC  
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-02  
 Client ID: S-20 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.79	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-02  
 Client ID: S-20 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	97	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-03  
 Client ID: S-21 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:20  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 11/21/20 16:06  
 Analyst: JC  
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.65	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-03  
 Client ID: S-21 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:20  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.67	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	2.6	J	ug/kg	4.8	0.78	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-03  
 Client ID: S-21 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:20  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	96	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1

## Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1
-------------------------------------	----	-------	---

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



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-04  
 Client ID: TW-6  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 11/21/20 19:39  
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-04  
 Client ID: TW-6  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	8.3		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-04  
 Client ID: TW-6  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

## Tentatively Identified Compounds

Total TIC Compounds	1.30	J	ug/l			1
Nonanal	1.30	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/21/20 10:29  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1437376-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/21/20 10:29  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1437376-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
Analytical Date: 11/21/20 10:29  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1437376-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

#### Tentatively Identified Compounds

Total TIC Compounds	18.0	J	ug/kg
Unknown	18.0	J	ug/kg

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/21/20 10:29  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1437376-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/21/20 19:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1437699-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18



**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/21/20 19:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1437699-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	2.4	J	ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/21/20 19:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1437699-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 11/21/20 19:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1437699-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1437376-3 WG1437376-4								
Methylene chloride	102		99		70-130	3		30
1,1-Dichloroethane	106		104		70-130	2		30
Chloroform	103		101		70-130	2		30
Carbon tetrachloride	105		102		70-130	3		30
1,2-Dichloropropane	101		101		70-130	0		30
Dibromochloromethane	93		93		70-130	0		30
1,1,2-Trichloroethane	92		92		70-130	0		30
Tetrachloroethene	109		105		70-130	4		30
Chlorobenzene	100		97		70-130	3		30
Trichlorofluoromethane	77		74		70-139	4		30
1,2-Dichloroethane	100		100		70-130	0		30
1,1,1-Trichloroethane	100		98		70-130	2		30
Bromodichloromethane	90		90		70-130	0		30
trans-1,3-Dichloropropene	97		96		70-130	1		30
cis-1,3-Dichloropropene	99		99		70-130	0		30
1,1-Dichloropropene	111		108		70-130	3		30
Bromoform	88		89		70-130	1		30
1,1,2,2-Tetrachloroethane	86		87		70-130	1		30
Benzene	104		102		70-130	2		30
Toluene	103		99		70-130	4		30
Ethylbenzene	100		97		70-130	3		30
Chloromethane	123		116		52-130	6		30
Bromomethane	112		108		57-147	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1437376-3 WG1437376-4								
Vinyl chloride	92		88		67-130	4		30
Chloroethane	81		78		50-151	4		30
1,1-Dichloroethene	119		114		65-135	4		30
trans-1,2-Dichloroethene	110		106		70-130	4		30
Trichloroethene	102		100		70-130	2		30
1,2-Dichlorobenzene	97		95		70-130	2		30
1,3-Dichlorobenzene	98		96		70-130	2		30
1,4-Dichlorobenzene	97		95		70-130	2		30
Methyl tert butyl ether	100		101		66-130	1		30
p/m-Xylene	101		98		70-130	3		30
o-Xylene	99		96		70-130	3		30
cis-1,2-Dichloroethene	102		101		70-130	1		30
Dibromomethane	96		97		70-130	1		30
Styrene	97		95		70-130	2		30
Dichlorodifluoromethane	130		124		30-146	5		30
Acetone	109		96		54-140	13		30
Carbon disulfide	118		113		59-130	4		30
2-Butanone	91		93		70-130	2		30
Vinyl acetate	99		99		70-130	0		30
4-Methyl-2-pentanone	82		84		70-130	2		30
1,2,3-Trichloropropane	92		93		68-130	1		30
2-Hexanone	74		77		70-130	4		30
Bromochloromethane	106		105		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1437376-3 WG1437376-4								
2,2-Dichloropropane	104		101		70-130	3		30
1,2-Dibromoethane	97		97		70-130	0		30
1,3-Dichloropropane	99		99		69-130	0		30
1,1,1,2-Tetrachloroethane	97		94		70-130	3		30
Bromobenzene	96		95		70-130	1		30
n-Butylbenzene	98		95		70-130	3		30
sec-Butylbenzene	98		95		70-130	3		30
tert-Butylbenzene	96		93		70-130	3		30
o-Chlorotoluene	96		94		70-130	2		30
p-Chlorotoluene	98		95		70-130	3		30
1,2-Dibromo-3-chloropropane	88		88		68-130	0		30
Hexachlorobutadiene	100		99		67-130	1		30
Isopropylbenzene	97		94		70-130	3		30
p-Isopropyltoluene	97		94		70-130	3		30
Naphthalene	87		90		70-130	3		30
Acrylonitrile	102		107		70-130	5		30
n-Propylbenzene	97		95		70-130	2		30
1,2,3-Trichlorobenzene	97		97		70-130	0		30
1,2,4-Trichlorobenzene	98		97		70-130	1		30
1,3,5-Trimethylbenzene	96		94		70-130	2		30
1,2,4-Trimethylbenzene	96		93		70-130	3		30
1,4-Dioxane	98		97		65-136	1		30
p-Diethylbenzene	98		94		70-130	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Project Number: 11571

Lab Number: L2051740

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1437376-3 WG1437376-4								
p-Ethyltoluene	99		96		70-130	3		30
1,2,4,5-Tetramethylbenzene	93		91		70-130	2		30
Ethyl ether	72		71		67-130	1		30
trans-1,4-Dichloro-2-butene	92		93		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		95		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	95		98		70-130
Dibromofluoromethane	97		97		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1437699-3 WG1437699-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	110		100		70-130	10		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	120		120		70-130	0		20
Chlorobenzene	110		110		75-130	0		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	100		99		70-130	1		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	99		98		70-130	1		20
1,1-Dichloropropene	110		100		70-130	10		20
Bromoform	100		100		54-136	0		20
1,1,1,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	100		99		70-130	1		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	120		110		64-130	9		20
Bromomethane	<b>150</b>	Q	<b>180</b>	Q	39-139	18		20



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1437699-3 WG1437699-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	110		99		55-138	11		20
1,1-Dichloroethene	100		97		61-145	3		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	110		100		70-130	10		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	120		120		70-130	0		20
1,4-Dichlorobenzene	120		110		70-130	9		20
Methyl tert butyl ether	97		95		63-130	2		20
p/m-Xylene	110		110		70-130	0		20
o-Xylene	110		105		70-130	5		20
cis-1,2-Dichloroethene	100		97		70-130	3		20
Dibromomethane	99		97		70-130	2		20
1,2,3-Trichloropropane	93		96		64-130	3		20
Acrylonitrile	97		100		70-130	3		20
Styrene	105		100		70-130	5		20
Dichlorodifluoromethane	120		120		36-147	0		20
Acetone	100		87		58-148	14		20
Carbon disulfide	120		110		51-130	9		20
2-Butanone	90		84		63-138	7		20
Vinyl acetate	100		100		70-130	0		20
4-Methyl-2-pentanone	83		83		59-130	0		20
2-Hexanone	86		89		57-130	3		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1437699-3 WG1437699-4								
Bromochloromethane	110		100		70-130	10		20
2,2-Dichloropropane	100		110		63-133	10		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	110		100		64-130	10		20
Bromobenzene	110		110		70-130	0		20
n-Butylbenzene	120		120		53-136	0		20
sec-Butylbenzene	120		110		70-130	9		20
tert-Butylbenzene	120		120		70-130	0		20
o-Chlorotoluene	120		120		70-130	0		20
p-Chlorotoluene	120		120		70-130	0		20
1,2-Dibromo-3-chloropropane	78		82		41-144	5		20
Hexachlorobutadiene	130		130		63-130	0		20
Isopropylbenzene	120		110		70-130	9		20
p-Isopropyltoluene	120		120		70-130	0		20
Naphthalene	90		93		70-130	3		20
n-Propylbenzene	120		120		69-130	0		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20
1,2,4-Trichlorobenzene	120		110		70-130	9		20
1,3,5-Trimethylbenzene	120		110		64-130	9		20
1,2,4-Trimethylbenzene	120		110		70-130	9		20
1,4-Dioxane	84		56		56-162	40	Q	20
p-Diethylbenzene	120		120		70-130	0		20

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Project Number: 11571

Lab Number: L2051740

Report Date: 11/30/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1437699-3 WG1437699-4								
p-Ethyltoluene	120		120		70-130	0		20
1,2,4,5-Tetramethylbenzene	120		110		70-130	9		20
Ethyl ether	100		100		59-134	0		20
trans-1,4-Dichloro-2-butene	110		120		70-130	9		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	98		96		70-130
Toluene-d8	105		104		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	100		98		70-130

# SEMIVOLATILES

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-01  
 Client ID: S-19 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 08:45  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 11/23/20 15:13  
 Analyst: EK  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 11/20/20 11:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	640		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-01  
 Client ID: S-19 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 08:45  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	510		ug/kg	120	22.	1
Benzo(a)pyrene	450		ug/kg	160	48.	1
Benzo(b)fluoranthene	530		ug/kg	120	33.	1
Benzo(k)fluoranthene	140		ug/kg	120	31.	1
Chrysene	630		ug/kg	120	20.	1
Acenaphthylene	71	J	ug/kg	160	30.	1
Anthracene	60	J	ug/kg	120	38.	1
Benzo(ghi)perylene	290		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	370		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	73	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	240		ug/kg	160	27.	1
Pyrene	970		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-01  
 Client ID: S-19 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 08:45  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	25	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.0	1

**Tentatively Identified Compounds**

Total TIC Compounds	2140	J	ug/kg			1
Unknown PAH	214	J	ug/kg			1
Unknown Ketone	179	J	ug/kg			1
Unknown	248	J	ug/kg			1
Unknown PAH	227	J	ug/kg			1
Unknown	261	J	ug/kg			1
Unknown PAH	210	J	ug/kg			1
Unknown	165	J	ug/kg			1
Unknown PAH	190	J	ug/kg			1
Unknown	256	J	ug/kg			1
Unknown PAH	189	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	75		18-120

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-01  
 Client ID: S-19 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 08:45  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 11/24/20 01:16  
 Analyst: SG  
 Percent Solids: 85%

Extraction Method: ALPHA 23528  
 Extraction Date: 11/23/20 09:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.517	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.517	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.517	0.040	1
Perfluorohexanoic Acid (PFHxA)	0.063	J	ug/kg	0.517	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.517	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.517	0.063	1
Perfluorooctanoic Acid (PFOA)	0.145	JF	ug/kg	0.517	0.043	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.517	0.186	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.517	0.141	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.517	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	2.02	F	ug/kg	0.517	0.134	1
Perfluorodecanoic Acid (PFDA)	0.125	J	ug/kg	0.517	0.069	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.517	0.297	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.517	0.208	1
Perfluoroundecanoic Acid (PFUnA)	0.068	J	ug/kg	0.517	0.048	1
Perfluorodecanesulfonic Acid (PFDS)	0.784		ug/kg	0.517	0.158	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.517	0.101	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.517	0.087	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.517	0.072	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.517	0.211	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.517	0.056	1
PFOA/PFOS, Total	2.17	J	ug/kg	0.517	0.043	1



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-01

Date Collected: 11/19/20 08:45

Client ID: S-19 (2-3)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Surrogate (Extracted Internal Standard)			% Recovery	Qualifier	Acceptance Criteria	
Perfluoro[13C4]Butanoic Acid (MPFBA)			92		60-153	
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)			104		65-182	
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)			91		70-151	
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)			95		61-147	
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)			102		62-149	
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)			105		63-166	
Perfluoro[13C8]Octanoic Acid (M8PFOA)			93		62-152	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)			134		32-182	
Perfluoro[13C9]Nonanoic Acid (M9PFNA)			92		61-154	
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)			94		65-151	
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)			92		65-150	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)			159		25-186	
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)			78		45-137	
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)			104		64-158	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			53		1-125	
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)			74		42-136	
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)			101		56-148	
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)			69		26-160	

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-02  
 Client ID: S-20 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 11/23/20 15:35  
 Analyst: EK  
 Percent Solids: 86%

Extraction Method: EPA 3546  
 Extraction Date: 11/20/20 11:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	45	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	1800		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	91	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	400		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-02  
 Client ID: S-20 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	1000		ug/kg	110	22.	1
Benzo(a)pyrene	940		ug/kg	150	47.	1
Benzo(b)fluoranthene	1100		ug/kg	110	32.	1
Benzo(k)fluoranthene	370		ug/kg	110	30.	1
Chrysene	1200		ug/kg	110	20.	1
Acenaphthylene	320		ug/kg	150	29.	1
Anthracene	250		ug/kg	110	37.	1
Benzo(ghi)perylene	650		ug/kg	150	22.	1
Fluorene	85	J	ug/kg	190	18.	1
Phenanthrene	1300		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	150		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	600		ug/kg	150	27.	1
Pyrene	2000		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	51	J	ug/kg	190	18.	1
2-Methylnaphthalene	44	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-02  
 Client ID: S-20 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	120	J	ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

## Tentatively Identified Compounds

Total TIC Compounds	4410	J	ug/kg			1
Unknown	480	J	ug/kg			1
Unknown Ketone	463	J	ug/kg			1
Unknown	383	J	ug/kg			1
Unknown PAH	374	J	ug/kg			1
Unknown	466	J	ug/kg			1
Unknown PAH	366	J	ug/kg			1
Unknown	188	J	ug/kg			1
Unknown	194	J	ug/kg			1
Unknown Ketone	193	J	ug/kg			1
Unknown PAH	179	J	ug/kg			1
Unknown PAH	237	J	ug/kg			1
Unknown PAH	257	J	ug/kg			1
Unknown PAH	187	J	ug/kg			1
Unknown Ketone	193	J	ug/kg			1
Unknown	249	J	ug/kg			1

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-02

Date Collected: 11/19/20 09:00

Client ID: S-20 (4-5)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	59		18-120

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-02  
 Client ID: S-20 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 11/24/20 01:33  
 Analyst: SG  
 Percent Solids: 86%

Extraction Method: ALPHA 23528  
 Extraction Date: 11/23/20 09:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.533	0.024	1
Perfluoropentanoic Acid (PFPeA)	0.051	J	ug/kg	0.533	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.533	0.042	1
Perfluorohexanoic Acid (PFHxA)	0.077	J	ug/kg	0.533	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.533	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.533	0.065	1
Perfluorooctanoic Acid (PFOA)	0.141	JF	ug/kg	0.533	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.533	0.191	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.533	0.146	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.533	0.080	1
Perfluorooctanesulfonic Acid (PFOS)	1.45	F	ug/kg	0.533	0.139	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.533	0.072	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.533	0.306	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.533	0.215	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.533	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.533	0.163	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.533	0.104	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.182	JF	ug/kg	0.533	0.090	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.533	0.075	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.533	0.218	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.533	0.058	1
PFOA/PFOS, Total	1.59	J	ug/kg	0.533	0.045	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-02  
 Client ID: S-20 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	94		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	95		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	126		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	152		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	72		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	54		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	70		26-160

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-03  
 Client ID: S-21 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:20  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 11/23/20 15:58  
 Analyst: EK  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 11/20/20 11:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	20	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	1500		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	43	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	92	J	ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-03  
 Client ID: S-21 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:20  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	1200		ug/kg	120	22.	1
Benzo(a)pyrene	1200		ug/kg	160	48.	1
Benzo(b)fluoranthene	1300		ug/kg	120	33.	1
Benzo(k)fluoranthene	420		ug/kg	120	32.	1
Chrysene	1500		ug/kg	120	20.	1
Acenaphthylene	190		ug/kg	160	30.	1
Anthracene	150		ug/kg	120	38.	1
Benzo(ghi)perylene	710		ug/kg	160	23.	1
Fluorene	38	J	ug/kg	200	19.	1
Phenanthrene	930		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	180		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	630		ug/kg	160	28.	1
Pyrene	2100		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	24	J	ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-03  
 Client ID: S-21 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:20  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	75	J	ug/kg	200	19.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

## Tentatively Identified Compounds

Total TIC Compounds	5170	J	ug/kg			1
Unknown PAH	466	J	ug/kg			1
Unknown PAH	394	J	ug/kg			1
Unknown PAH	358	J	ug/kg			1
Unknown Ketone	506	J	ug/kg			1
Unknown	296	J	ug/kg			1
Unknown PAH	474	J	ug/kg			1
Unknown	349	J	ug/kg			1
Unknown PAH	354	J	ug/kg			1
Unknown Thiophene	237	J	ug/kg			1
Unknown Ketone	293	J	ug/kg			1
Unknown	230	J	ug/kg			1
Unknown Ketone	288	J	ug/kg			1
Unknown PAH	311	J	ug/kg			1
Unknown PAH	239	J	ug/kg			1
Unknown PAH	373	J	ug/kg			1

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-03

Date Collected: 11/19/20 09:20

Client ID: S-21 (3-4)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	70		18-120

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-03  
 Client ID: S-21 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:20  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 11/24/20 01:50  
 Analyst: SG  
 Percent Solids: 84%

Extraction Method: ALPHA 23528  
 Extraction Date: 11/23/20 09:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.561	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.561	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.561	0.044	1
Perfluorohexanoic Acid (PFHxA)	0.066	J	ug/kg	0.561	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.561	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.561	0.068	1
Perfluorooctanoic Acid (PFOA)	0.074	JF	ug/kg	0.561	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.561	0.201	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.561	0.153	1
Perfluorononanoic Acid (PFNA)	0.398	J	ug/kg	0.561	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	0.983	F	ug/kg	0.561	0.146	1
Perfluorodecanoic Acid (PFDA)	0.146	J	ug/kg	0.561	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.561	0.322	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.561	0.226	1
Perfluoroundecanoic Acid (PFUnA)	0.053	JF	ug/kg	0.561	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.561	0.172	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.561	0.110	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.561	0.095	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.561	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.561	0.229	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.561	0.061	1
PFOA/PFOS, Total	1.06	J	ug/kg	0.561	0.047	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-03  
 Client ID: S-21 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:20  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	110		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	155		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	99		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	185		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	89		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	53		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	81		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	108		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		26-160

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-04  
 Client ID: TW-6  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 11/22/20 05:02  
 Analyst: SZ

Extraction Method: EPA 3510C  
 Extraction Date: 11/21/20 04:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-04  
 Client ID: TW-6  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	1.9	J	ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-04  
 Client ID: TW-6  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

## Tentatively Identified Compounds

Total TIC Compounds	144	J	ug/l			1
Unknown Organic Acid	20.4	J	ug/l			1
Unknown Phenol	4.54	J	ug/l			1
Unknown	3.49	J	ug/l			1
Unknown	4.44	J	ug/l			1
Unknown	5.24	J	ug/l			1
Unknown Alcohol	3.93	J	ug/l			1
Unknown Organic Acid	8.18	J	ug/l			1
Unknown Organic Acid	22.8	J	ug/l			1
Unknown Thiazole	3.64	J	ug/l			1
Unknown	3.96	J	ug/l			1
Unknown	4.91	J	ug/l			1
Unknown Organic Acid	4.98	J	ug/l			1
Unknown	36.6	J	ug/l			1
Unknown Organic Acid	16.6	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	62		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	97		10-120
4-Terphenyl-d14	93		41-149



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-04  
 Client ID: TW-6  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 11/21/20 14:12  
 Analyst: JJW

Extraction Method: EPA 3510C  
 Extraction Date: 11/21/20 04:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.08	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.09	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	0.06	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.06	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.07	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Chrysene	0.05	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.04	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.05	J	ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	0.09	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.05	J	ug/l	0.10	0.01	1
Pyrene	0.10		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.24		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-04

Date Collected: 11/19/20 12:00

Client ID: TW-6

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	92		15-120
2,4,6-Tribromophenol	150	Q	10-120
4-Terphenyl-d14	104		41-149

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-04  
 Client ID: TW-6  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 11/23/20 10:55  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 11/21/20 09:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	163	36.8	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
1,4-Dioxane-d8			40		15-110	

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-04 RE

Date Collected: 11/19/20 12:00

Client ID: TW-6

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 11/25/20 15:30

Analytical Date: 11/27/20 17:10

Analyst: :RS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	24.1		ng/l	2.02	0.411	1
Perfluoropentanoic Acid (PFPeA)	55.7		ng/l	2.02	0.399	1
Perfluorobutanesulfonic Acid (PFBS)	11.4		ng/l	2.02	0.240	1
Perfluorohexanoic Acid (PFHxA)	50.6		ng/l	2.02	0.330	1
Perfluoroheptanoic Acid (PFHpA)	51.0		ng/l	2.02	0.227	1
Perfluorohexanesulfonic Acid (PFHxS)	11.6		ng/l	2.02	0.379	1
Perfluorooctanoic Acid (PFOA)	92.6		ng/l	2.02	0.238	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.02	1.34	1
Perfluoroheptanesulfonic Acid (PFHpS)	2.20		ng/l	2.02	0.693	1
Perfluorononanoic Acid (PFNA)	28.2		ng/l	2.02	0.314	1
Perfluorooctanesulfonic Acid (PFOS)	522		ng/l	2.02	0.508	1
Perfluorodecanoic Acid (PFDA)	23.4		ng/l	2.02	0.306	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.02	1.22	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.02	0.653	1
Perfluoroundecanoic Acid (PFUnA)	5.72		ng/l	2.02	0.262	1
Perfluorodecanesulfonic Acid (PFDS)	6.46		ng/l	2.02	0.988	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	46.8		ng/l	2.02	0.810	1
Perfluorododecanoic Acid (PFDoA)	4.91		ng/l	2.02	0.375	1
Perfluorotridecanoic Acid (PFTTrDA)	2.64	F	ng/l	2.02	0.330	1
Perfluorotetradecanoic Acid (PFTTA)	1.99	J	ng/l	2.02	0.250	1
PFOA/PFOS, Total	615		ng/l	2.02	0.238	1

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-04 RE

Date Collected: 11/19/20 12:00

Client ID: TW-6

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	70		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	75		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	55		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	179		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	137		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	97		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	301	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	156		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	121		40-144
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	131		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	114		33-143

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-04 RE

Date Collected: 11/19/20 12:00

Client ID: TW-6

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 11/25/20 15:30

Analytical Date: 11/28/20 16:25

Analyst: RS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

## Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Perfluorooctanesulfonamide (FOSA)	7.79		ng/l	2.02	0.584	1
-----------------------------------	------	--	------	------	-------	---

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
---	------------	-----------	---------------------

Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47		1-87
---	----	--	------

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-05  
 Client ID: FB  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:15  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Field Blank  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 11/23/20 19:41  
 Analyst: :RS

Extraction Method: ALPHA 23528  
 Extraction Date: 11/20/20 15:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.90	0.387	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.90	0.375	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.90	0.226	1
Perfluorohexanoic Acid (PFHxA)	0.326	JF	ng/l	1.90	0.311	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.90	0.213	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.90	0.356	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.90	0.224	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.90	1.26	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.90	0.652	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.90	0.296	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.90	0.478	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.90	0.288	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.90	1.15	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.90	0.614	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.90	0.246	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.90	0.929	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.90	0.762	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.90	0.353	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.90	0.310	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.90	0.235	1
PFOA/PFOS, Total	ND		ng/l	1.90	0.224	1

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-05  
 Client ID: FB  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:15  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

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

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	128		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	80		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	109		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	118		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	116		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	105		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	124		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	101		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	131		40-144
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	136		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	137		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	141		33-143



**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-05  
 Client ID: FB  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:15  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Field Blank  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 11/24/20 13:02  
 Analyst: RS

Extraction Method: ALPHA 23528  
 Extraction Date: 11/20/20 15:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab</b>						
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.90	0.550	1
<b>Surrogate (Extracted Internal Standard)</b>			<b>% Recovery</b>	<b>Qualifier</b>	<b>Acceptance Criteria</b>	
Perfluoro[13C8]Octanesulfonamide (M8FOSA)			64		1-87	

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/20/20 09:56  
Analyst: SZ

Extraction Method: EPA 3546  
Extraction Date: 11/19/20 18:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1436359-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/20/20 09:56  
Analyst: SZ

Extraction Method: EPA 3546  
Extraction Date: 11/19/20 18:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1436359-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/20/20 09:56  
Analyst: SZ

Extraction Method: EPA 3546  
Extraction Date: 11/19/20 18:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1436359-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	93		18-120

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/23/20 18:35  
**Analyst:** :RS

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/20/20 15:38

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05 Batch: WG1436741-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 11/23/20 18:35  
Analyst: :RS

Extraction Method: ALPHA 23528  
Extraction Date: 11/20/20 15:38

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05 Batch: WG1436741-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	103		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	121		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	117		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	115		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	102		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	113		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	131		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	128		40-144
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	130		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	127		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	137		33-143

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 11/24/20 12:34  
Analyst: RS

Extraction Method: ALPHA 23528  
Extraction Date: 11/20/20 15:38

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05 Batch: WG1436741-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61		1-87

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/22/20 03:52  
Analyst: EK

Extraction Method: EPA 3510C  
Extraction Date: 11/21/20 04:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1436954-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38



**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/22/20 03:52  
Analyst: EK

Extraction Method: EPA 3510C  
Extraction Date: 11/21/20 04:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1436954-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/22/20 03:52  
Analyst: EK

Extraction Method: EPA 3510C  
Extraction Date: 11/21/20 04:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1436954-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Tentatively Identified Compounds

Total TIC Compounds	16.1	J	ug/l
Unknown	1.93	J	ug/l
Unknown	1.71	J	ug/l
Unknown Organic Acid	1.64	J	ug/l
Unknown Alcohol	2.73	J	ug/l
Unknown	4.25	J	ug/l
Unknown	3.82	J	ug/l

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 11/22/20 03:52  
Analyst: EK

Extraction Method: EPA 3510C  
Extraction Date: 11/21/20 04:07

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1436954-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	58		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	89		41-149

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 11/21/20 13:52  
Analyst: JJW

Extraction Method: EPA 3510C  
Extraction Date: 11/21/20 04:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 04 Batch: WG1436955-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	0.03	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 11/21/20 13:52  
Analyst: JJW

Extraction Method: EPA 3510C  
Extraction Date: 11/21/20 04:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 04 Batch: WG1436955-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	94		15-120
2,4,6-Tribromophenol	<b>128</b>	Q	10-120
4-Terphenyl-d14	102		41-149

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 11/23/20 09:01  
Analyst: PS

Extraction Method: EPA 3510C  
Extraction Date: 11/21/20 09:00

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 04 Batch: WG1437011-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	42		15-110

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/24/20 00:27  
**Analyst:** SG

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/23/20 09:05

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1437404-1					
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.500	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.500	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.500	0.061
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.500	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.500	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	0.500	0.130
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.500	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.500	0.054
PFOA/PFOS, Total	ND		ug/kg	0.500	0.042

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 11/24/20 00:27  
Analyst: SG

Extraction Method: ALPHA 23528  
Extraction Date: 11/23/20 09:05

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1437404-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	101		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	143		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	166		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	95		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	9		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	106		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	68		26-160



**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 11/29/20 13:05  
Analyst: SG

Extraction Method: ALPHA 23528  
Extraction Date: 11/23/20 09:05

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1437404-1					
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	81		1-125

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 11/27/20 16:20  
**Analyst:** :RS

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 11/25/20 15:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 04 Batch: WG1438561-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 11/27/20 16:20  
Analyst: :RS

Extraction Method: ALPHA 23528  
Extraction Date: 11/25/20 15:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 04 Batch: WG1438561-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	119		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	142		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	107		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	108		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	115		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	115		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	106		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	129		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	116		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	108		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	122		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	117		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	130		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	21		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	111		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	129		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	123		33-143

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 134,LCMSMS-ID  
Analytical Date: 11/28/20 16:04  
Analyst: RS

Extraction Method: ALPHA 23528  
Extraction Date: 11/25/20 15:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 04 Batch: WG1438561-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	65		1-87

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1436359-2 WG1436359-3								
Acenaphthene	70		68		31-137	3		50
1,2,4-Trichlorobenzene	78		75		38-107	4		50
Hexachlorobenzene	86		86		40-140	0		50
Bis(2-chloroethyl)ether	58		55		40-140	5		50
2-Chloronaphthalene	84		80		40-140	5		50
1,2-Dichlorobenzene	65		66		40-140	2		50
1,3-Dichlorobenzene	69		68		40-140	1		50
1,4-Dichlorobenzene	64		62		28-104	3		50
3,3'-Dichlorobenzidine	70		68		40-140	3		50
2,4-Dinitrotoluene	91		92		40-132	1		50
2,6-Dinitrotoluene	95		97		40-140	2		50
Fluoranthene	82		81		40-140	1		50
4-Chlorophenyl phenyl ether	81		80		40-140	1		50
4-Bromophenyl phenyl ether	92		91		40-140	1		50
Bis(2-chloroisopropyl)ether	57		54		40-140	5		50
Bis(2-chloroethoxy)methane	72		67		40-117	7		50
Hexachlorobutadiene	78		75		40-140	4		50
Hexachlorocyclopentadiene	84		82		40-140	2		50
Hexachloroethane	56		55		40-140	2		50
Isophorone	64		61		40-140	5		50
Naphthalene	70		69		40-140	1		50
Nitrobenzene	69		68		40-140	1		50
NDPA/DPA	82		81		36-157	1		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1436359-2 WG1436359-3								
n-Nitrosodi-n-propylamine	72		68		32-121	6		50
Bis(2-ethylhexyl)phthalate	78		75		40-140	4		50
Butyl benzyl phthalate	86		86		40-140	0		50
Di-n-butylphthalate	81		79		40-140	3		50
Di-n-octylphthalate	77		76		40-140	1		50
Diethyl phthalate	78		77		40-140	1		50
Dimethyl phthalate	87		87		40-140	0		50
Benzo(a)anthracene	78		76		40-140	3		50
Benzo(a)pyrene	91		90		40-140	1		50
Benzo(b)fluoranthene	86		85		40-140	1		50
Benzo(k)fluoranthene	75		73		40-140	3		50
Chrysene	72		70		40-140	3		50
Acenaphthylene	82		79		40-140	4		50
Anthracene	76		73		40-140	4		50
Benzo(ghi)perylene	78		77		40-140	1		50
Fluorene	80		79		40-140	1		50
Phenanthrene	78		76		40-140	3		50
Dibenzo(a,h)anthracene	79		76		40-140	4		50
Indeno(1,2,3-cd)pyrene	86		84		40-140	2		50
Pyrene	81		81		35-142	0		50
Biphenyl	88		86		37-127	2		50
4-Chloroaniline	53		52		40-140	2		50
2-Nitroaniline	91		91		47-134	0		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1436359-2 WG1436359-3								
3-Nitroaniline	68		67		26-129	1		50
4-Nitroaniline	83		82		41-125	1		50
Dibenzofuran	81		78		40-140	4		50
2-Methylnaphthalene	80		78		40-140	3		50
1,2,4,5-Tetrachlorobenzene	94		92		40-117	2		50
Acetophenone	84		83		14-144	1		50
2,4,6-Trichlorophenol	104		101		30-130	3		50
p-Chloro-m-cresol	88		86		26-103	2		50
2-Chlorophenol	75		73		25-102	3		50
2,4-Dichlorophenol	91		89		30-130	2		50
2,4-Dimethylphenol	80		77		30-130	4		50
2-Nitrophenol	83		81		30-130	2		50
4-Nitrophenol	82		85		11-114	4		50
2,4-Dinitrophenol	82		84		4-130	2		50
4,6-Dinitro-o-cresol	90		90		10-130	0		50
Pentachlorophenol	88		87		17-109	1		50
Phenol	71		68		26-90	4		50
2-Methylphenol	73		70		30-130.	4		50
3-Methylphenol/4-Methylphenol	79		78		30-130	1		50
2,4,5-Trichlorophenol	90		90		30-130	0		50
Benzoic Acid	53		54		10-110	2		50
Benzyl Alcohol	82		80		40-140	2		50
Carbazole	81		80		54-128	1		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1436359-2 WG1436359-3								
1,4-Dioxane	48		46		40-140	4		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		73		25-120
Phenol-d6	76		74		10-120
Nitrobenzene-d5	76		72		23-120
2-Fluorobiphenyl	86		81		30-120
2,4,6-Tribromophenol	100		99		10-136
4-Terphenyl-d14	91		90		18-120



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 Batch: WG1436741-2 WG1436741-3								
Perfluorobutanoic Acid (PFBA)	94		100		67-148	6		30
Perfluoropentanoic Acid (PFPeA)	95		100		63-161	5		30
Perfluorobutanesulfonic Acid (PFBS)	100		104		65-157	4		30
Perfluorohexanoic Acid (PFHxA)	99		102		69-168	3		30
Perfluoroheptanoic Acid (PFHpA)	93		98		58-159	5		30
Perfluorohexanesulfonic Acid (PFHxS)	98		109		69-177	11		30
Perfluorooctanoic Acid (PFOA)	98		101		63-159	3		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	97		96		49-187	1		30
Perfluoroheptanesulfonic Acid (PFHpS)	100		107		61-179	7		30
Perfluorononanoic Acid (PFNA)	92		97		68-171	5		30
Perfluorooctanesulfonic Acid (PFOS)	105		110		52-151	5		30
Perfluorodecanoic Acid (PFDA)	94		102		63-171	8		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	113		126		56-173	11		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	80		77		60-166	4		30
Perfluoroundecanoic Acid (PFUnA)	94		98		60-153	4		30
Perfluorodecanesulfonic Acid (PFDS)	118		109		38-156	8		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	92		89		45-170	3		30
Perfluorododecanoic Acid (PFDoA)	90		94		67-153	4		30
Perfluorotridecanoic Acid (PFTTrDA)	101		105		48-158	4		30
Perfluorotetradecanoic Acid (PFTA)	95		99		59-182	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits			Qual	Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 Batch: WG1436741-2 WG1436741-3

Surrogate (Extracted Internal Standard)	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		96		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	117		114		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		94		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		81		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		91		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		95		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		99		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	119		113		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	113		109		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	115		108		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		98		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	116		102		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	109		103		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	129		122		40-144
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	123		118		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	132		120		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	136		121		33-143

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 Batch: WG1436741-2 WG1436741-3								
Perfluorooctanesulfonamide (FOSA)	107		113		46-170	12		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	66		66		1-87

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1436954-2 WG1436954-3								
Acenaphthene	91		86		37-111	6		30
1,2,4-Trichlorobenzene	84		83		39-98	1		30
Hexachlorobenzene	93		89		40-140	4		30
Bis(2-chloroethyl)ether	88		84		40-140	5		30
2-Chloronaphthalene	88		86		40-140	2		30
1,2-Dichlorobenzene	82		80		40-140	2		30
1,3-Dichlorobenzene	83		80		40-140	4		30
1,4-Dichlorobenzene	83		81		36-97	2		30
3,3'-Dichlorobenzidine	61		69		40-140	12		30
2,4-Dinitrotoluene	94		91		48-143	3		30
2,6-Dinitrotoluene	93		91		40-140	2		30
Fluoranthene	100		99		40-140	1		30
4-Chlorophenyl phenyl ether	92		87		40-140	6		30
4-Bromophenyl phenyl ether	94		92		40-140	2		30
Bis(2-chloroisopropyl)ether	86		83		40-140	4		30
Bis(2-chloroethoxy)methane	89		86		40-140	3		30
Hexachlorobutadiene	80		81		40-140	1		30
Hexachlorocyclopentadiene	69		70		40-140	1		30
Hexachloroethane	82		76		40-140	8		30
Isophorone	94		92		40-140	2		30
Naphthalene	84		83		40-140	1		30
Nitrobenzene	90		87		40-140	3		30
NDPA/DPA	95		94		40-140	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1436954-2 WG1436954-3								
n-Nitrosodi-n-propylamine	96		94		29-132	2		30
Bis(2-ethylhexyl)phthalate	87		85		40-140	2		30
Butyl benzyl phthalate	97		97		40-140	0		30
Di-n-butylphthalate	90		89		40-140	1		30
Di-n-octylphthalate	97		94		40-140	3		30
Diethyl phthalate	96		91		40-140	5		30
Dimethyl phthalate	93		92		40-140	1		30
Benzo(a)anthracene	94		92		40-140	2		30
Benzo(a)pyrene	102		99		40-140	3		30
Benzo(b)fluoranthene	97		94		40-140	3		30
Benzo(k)fluoranthene	105		101		40-140	4		30
Chrysene	95		92		40-140	3		30
Acenaphthylene	94		94		45-123	0		30
Anthracene	97		95		40-140	2		30
Benzo(ghi)perylene	99		95		40-140	4		30
Fluorene	96		91		40-140	5		30
Phenanthrene	92		91		40-140	1		30
Dibenzo(a,h)anthracene	97		93		40-140	4		30
Indeno(1,2,3-cd)pyrene	99		96		40-140	3		30
Pyrene	98		98		26-127	0		30
Biphenyl	91		90		40-140	1		30
4-Chloroaniline	36	Q	65		40-140	57	Q	30
2-Nitroaniline	94		93		52-143	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1436954-2 WG1436954-3								
3-Nitroaniline	76		79		25-145	4		30
4-Nitroaniline	86		85		51-143	1		30
Dibenzofuran	92		87		40-140	6		30
2-Methylnaphthalene	86		85		40-140	1		30
1,2,4,5-Tetrachlorobenzene	88		86		2-134	2		30
Acetophenone	92		88		39-129	4		30
2,4,6-Trichlorophenol	91		93		30-130	2		30
p-Chloro-m-cresol	96		95		23-97	1		30
2-Chlorophenol	91		89		27-123	2		30
2,4-Dichlorophenol	96		92		30-130	4		30
2,4-Dimethylphenol	54		80		30-130	39	Q	30
2-Nitrophenol	94		91		30-130	3		30
4-Nitrophenol	94	Q	88	Q	10-80	7		30
2,4-Dinitrophenol	82		55		20-130	39	Q	30
4,6-Dinitro-o-cresol	93		80		20-164	15		30
Pentachlorophenol	76		54		9-103	34	Q	30
Phenol	64		65		12-110	2		30
2-Methylphenol	85		89		30-130	5		30
3-Methylphenol/4-Methylphenol	90		96		30-130	6		30
2,4,5-Trichlorophenol	95		94		30-130	1		30
Benzoic Acid	46		0	Q	10-164	NC		30
Benzyl Alcohol	86		84		26-116	2		30
Carbazole	98		96		55-144	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	---------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1436954-2 WG1436954-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		79		21-120
Phenol-d6	69		72		10-120
Nitrobenzene-d5	89		88		23-120
2-Fluorobiphenyl	85		82		15-120
2,4,6-Tribromophenol	<b>129</b>	Q	<b>125</b>	Q	10-120
4-Terphenyl-d14	98		99		41-149

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 04 Batch: WG1436955-2 WG1436955-3								
Acenaphthene	77		91		40-140	17		40
2-Chloronaphthalene	79		94		40-140	17		40
Fluoranthene	109		112		40-140	3		40
Hexachlorobutadiene	66		81		40-140	20		40
Naphthalene	68		84		40-140	21		40
Benzo(a)anthracene	110		113		40-140	3		40
Benzo(a)pyrene	121		123		40-140	2		40
Benzo(b)fluoranthene	112		113		40-140	1		40
Benzo(k)fluoranthene	106		111		40-140	5		40
Chrysene	96		102		40-140	6		40
Acenaphthylene	92		106		40-140	14		40
Anthracene	100		107		40-140	7		40
Benzo(ghi)perylene	116		118		40-140	2		40
Fluorene	88		101		40-140	14		40
Phenanthrene	90		96		40-140	6		40
Dibenzo(a,h)anthracene	124		126		40-140	2		40
Indeno(1,2,3-cd)pyrene	129		128		40-140	1		40
Pyrene	108		112		40-140	4		40
2-Methylnaphthalene	76		93		40-140	20		40
Pentachlorophenol	64		33	Q	40-140	64	Q	40
Hexachlorobenzene	86		93		40-140	8		40
Hexachloroethane	54		70		40-140	26		40



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	---------------

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 04 Batch: WG1436955-2 WG1436955-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	52		66		21-120
Phenol-d6	44		53		10-120
Nitrobenzene-d5	69		85		23-120
2-Fluorobiphenyl	78		93		15-120
2,4,6-Tribromophenol	132	Q	132	Q	10-120
4-Terphenyl-d14	98		99		41-149

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 04 Batch: WG1437011-2 WG1437011-3								
1,4-Dioxane	113		113		40-140	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	42		41		15-110

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1437404-2 WG1437404-3								
Perfluorobutanoic Acid (PFBA)	107		108		71-135	1		30
Perfluoropentanoic Acid (PFPeA)	113		114		69-132	1		30
Perfluorobutanesulfonic Acid (PFBS)	112		117		72-128	4		30
Perfluorohexanoic Acid (PFHxA)	110		110		70-132	0		30
Perfluoroheptanoic Acid (PFHpA)	106		107		71-131	1		30
Perfluorohexanesulfonic Acid (PFHxS)	112		111		67-130	1		30
Perfluorooctanoic Acid (PFOA)	108		109		69-133	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	118		122		64-140	3		30
Perfluoroheptanesulfonic Acid (PFHpS)	111		114		70-132	3		30
Perfluorononanoic Acid (PFNA)	105		105		72-129	0		30
Perfluorooctanesulfonic Acid (PFOS)	112		117		68-136	4		30
Perfluorodecanoic Acid (PFDA)	106		110		69-133	4		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	122		138	Q	65-137	12		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	114		105		63-144	8		30
Perfluoroundecanoic Acid (PFUnA)	115		112		64-136	3		30
Perfluorodecanesulfonic Acid (PFDS)	126		121		59-134	4		30
Perfluorooctanesulfonamide (FOSA)	103		106		67-137	3		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	114		106		61-139	7		30
Perfluorododecanoic Acid (PFDoA)	110		110		69-135	0		30
Perfluorotridecanoic Acid (PFTrDA)	102		102		66-139	0		30
Perfluorotetradecanoic Acid (PFTA)	136	Q	133		69-133	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1437404-2 WG1437404-3									

Surrogate (Extracted Internal Standard)	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		97		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	110		109		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		98		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	101		102		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	108		109		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	109		111		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		99		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	149		155		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	101		99		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	95		96		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		98		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	174		176		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	83		88		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103		108		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	8		6		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79		86		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	106		109		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	65		68		26-160

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1437404-2 WG1437404-3								
Perfluorooctanesulfonamide (FOSA)	105		108		67-137	3		30

<b>Surrogate (Extracted Internal Standard)</b>	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	84		86		1-125

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 04 Batch: WG1438561-2 WG1438561-3								
Perfluorobutanoic Acid (PFBA)	94		94		67-148	0		30
Perfluoropentanoic Acid (PFPeA)	94		94		63-161	0		30
Perfluorobutanesulfonic Acid (PFBS)	98		97		65-157	1		30
Perfluorohexanoic Acid (PFHxA)	95		96		69-168	1		30
Perfluoroheptanoic Acid (PFHpA)	90		91		58-159	1		30
Perfluorohexanesulfonic Acid (PFHxS)	91		95		69-177	4		30
Perfluorooctanoic Acid (PFOA)	95		95		63-159	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	95		94		49-187	1		30
Perfluoroheptanesulfonic Acid (PFHpS)	105		101		61-179	4		30
Perfluorononanoic Acid (PFNA)	94		91		68-171	3		30
Perfluorooctanesulfonic Acid (PFOS)	109		105		52-151	4		30
Perfluorodecanoic Acid (PFDA)	96		96		63-171	0		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	120		102		56-173	16		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	69		82		60-166	17		30
Perfluoroundecanoic Acid (PFUnA)	96		102		60-153	6		30
Perfluorodecanesulfonic Acid (PFDS)	107		99		38-156	8		30
Perfluorooctanesulfonamide (FOSA)	91		94		46-170	3		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	94		96		45-170	2		30
Perfluorododecanoic Acid (PFDoA)	88		91		67-153	3		30
Perfluorotridecanoic Acid (PFTrDA)	99		102		48-158	3		30
Perfluorotetradecanoic Acid (PFTA)	95		93		59-182	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits			Qual	Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 04 Batch: WG1438561-2 WG1438561-3									

Surrogate (Extracted Internal Standard)	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	116		116		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	135		120		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		111		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		95		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		107		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	118		117		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	114		115		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	130		117		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	126		129		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	118		122		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	112		112		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	132		140		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	116		100		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	139		128		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27		31		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	121		118		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	136		125		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	130		127		33-143

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 04 Batch: WG1438561-2 WG1438561-3								
Perfluorooctanesulfonamide (FOSA)	105		107		46-170	16		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	67		65		1-87



# PCBS

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-01  
 Client ID: S-19 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 08:45  
 Date Received: 11/19/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 11/21/20 13:10  
 Analyst: CW  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 11/20/20 14:13  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/20/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 11/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	38.9	3.46	1	A
Aroclor 1221	ND		ug/kg	38.9	3.90	1	A
Aroclor 1232	ND		ug/kg	38.9	8.25	1	A
Aroclor 1242	ND		ug/kg	38.9	5.25	1	A
Aroclor 1248	ND		ug/kg	38.9	5.84	1	A
Aroclor 1254	42.4		ug/kg	38.9	4.26	1	A
Aroclor 1260	ND		ug/kg	38.9	7.19	1	A
Aroclor 1262	ND		ug/kg	38.9	4.94	1	A
Aroclor 1268	ND		ug/kg	38.9	4.03	1	A
PCBs, Total	42.4		ug/kg	38.9	3.46	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-02  
 Client ID: S-20 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 11/21/20 13:23  
 Analyst: CW  
 Percent Solids: 86%

Extraction Method: EPA 3546  
 Extraction Date: 11/20/20 14:13  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/20/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 11/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	3.30	1	A
Aroclor 1221	ND		ug/kg	37.2	3.73	1	A
Aroclor 1232	ND		ug/kg	37.2	7.89	1	A
Aroclor 1242	ND		ug/kg	37.2	5.02	1	A
Aroclor 1248	ND		ug/kg	37.2	5.58	1	A
Aroclor 1254	24.1	J	ug/kg	37.2	4.07	1	A
Aroclor 1260	ND		ug/kg	37.2	6.88	1	A
Aroclor 1262	ND		ug/kg	37.2	4.72	1	A
Aroclor 1268	ND		ug/kg	37.2	3.85	1	A
PCBs, Total	24.1	J	ug/kg	37.2	3.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	28	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	40		30-150	B
Decachlorobiphenyl	35		30-150	B

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-03  
 Client ID: S-21 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:20  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 11/21/20 13:36  
 Analyst: CW  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 11/20/20 14:13  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/20/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 11/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.1	3.39	1	A
Aroclor 1221	ND		ug/kg	38.1	3.82	1	A
Aroclor 1232	ND		ug/kg	38.1	8.08	1	A
Aroclor 1242	ND		ug/kg	38.1	5.14	1	A
Aroclor 1248	ND		ug/kg	38.1	5.72	1	A
Aroclor 1254	4.32	J	ug/kg	38.1	4.17	1	A
Aroclor 1260	ND		ug/kg	38.1	7.05	1	A
Aroclor 1262	ND		ug/kg	38.1	4.84	1	A
Aroclor 1268	ND		ug/kg	38.1	3.95	1	A
PCBs, Total	4.32	J	ug/kg	38.1	3.39	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	35		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	42		30-150	B

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-04  
 Client ID: TW-6  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8082A  
 Analytical Date: 11/21/20 13:39  
 Analyst: AD

Extraction Method: EPA 3510C  
 Extraction Date: 11/20/20 20:15  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 11/21/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 11/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	88		30-150	B

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 11/21/20 11:41  
Analyst: JAW

Extraction Method: EPA 3546  
Extraction Date: 11/20/20 14:13  
Cleanup Method: EPA 3665A  
Cleanup Date: 11/20/20  
Cleanup Method: EPA 3660B  
Cleanup Date: 11/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03 Batch: WG1436742-1						
Aroclor 1016	ND		ug/kg	32.7	2.90	A
Aroclor 1221	ND		ug/kg	32.7	3.28	A
Aroclor 1232	ND		ug/kg	32.7	6.93	A
Aroclor 1242	ND		ug/kg	32.7	4.41	A
Aroclor 1248	ND		ug/kg	32.7	4.90	A
Aroclor 1254	ND		ug/kg	32.7	3.58	A
Aroclor 1260	ND		ug/kg	32.7	6.04	A
Aroclor 1262	ND		ug/kg	32.7	4.15	A
Aroclor 1268	ND		ug/kg	32.7	3.39	A
PCBs, Total	ND		ug/kg	32.7	2.90	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	63		30-150	B

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 11/21/20 13:07  
Analyst: AD

Extraction Method: EPA 3510C  
Extraction Date: 11/20/20 18:56  
Cleanup Method: EPA 3665A  
Cleanup Date: 11/21/20  
Cleanup Method: EPA 3660B  
Cleanup Date: 11/21/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 04 Batch: WG1436892-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	81		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1436742-2 WG1436742-3									
Aroclor 1016	63		69		40-140	9		50	A
Aroclor 1260	58		63		40-140	8		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		68		30-150	A
Decachlorobiphenyl	48		53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		70		30-150	B
Decachlorobiphenyl	61		64		30-150	B



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Project Number: 11571

Lab Number: L2051740

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04 Batch: WG1436892-2 WG1436892-3									
Aroclor 1016	110		122		40-140	10		50	A
Aroclor 1260	100		114		40-140	13		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		114		30-150	A
Decachlorobiphenyl	111		121		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		109		30-150	B
Decachlorobiphenyl	113		119		30-150	B

# PESTICIDES

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-01  
 Client ID: S-19 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 08:45  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 11/23/20 08:25  
 Analyst: BM  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 11/20/20 10:20  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 11/20/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.82	0.356	1	A
Lindane	ND		ug/kg	0.759	0.339	1	A
Alpha-BHC	ND		ug/kg	0.759	0.215	1	A
Beta-BHC	ND		ug/kg	1.82	0.690	1	A
Heptachlor	ND		ug/kg	0.910	0.408	1	A
Aldrin	ND		ug/kg	1.82	0.641	1	A
Heptachlor epoxide	ND		ug/kg	3.41	1.02	1	A
Endrin	ND		ug/kg	0.759	0.311	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.796	1	A
Endrin ketone	ND		ug/kg	1.82	0.469	1	A
Dieldrin	10.3		ug/kg	1.14	0.569	1	A
4,4'-DDE	28.4		ug/kg	1.82	0.421	1	B
4,4'-DDD	ND		ug/kg	1.82	0.649	1	A
4,4'-DDT	100		ug/kg	3.41	1.46	1	A
Endosulfan I	ND		ug/kg	1.82	0.430	1	A
Endosulfan II	ND		ug/kg	1.82	0.608	1	A
Endosulfan sulfate	ND		ug/kg	0.759	0.361	1	A
Methoxychlor	ND		ug/kg	3.41	1.06	1	A
Toxaphene	ND		ug/kg	34.1	9.56	1	A
cis-Chlordane	17.4		ug/kg	2.28	0.634	1	A
trans-Chlordane	21.6		ug/kg	2.28	0.601	1	A
Chlordane	137		ug/kg	15.2	6.03	1	B

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-01

Date Collected: 11/19/20 08:45

Client ID: S-19 (2-3)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	103		30-150	A
Decachlorobiphenyl	126		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	136		30-150	B

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-02  
 Client ID: S-20 (4-5)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 11/23/20 08:35  
 Analyst: BM  
 Percent Solids: 86%

Extraction Method: EPA 3546  
 Extraction Date: 11/20/20 10:20  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 11/20/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.350	1	A
Lindane	ND		ug/kg	0.744	0.333	1	A
Alpha-BHC	ND		ug/kg	0.744	0.211	1	A
Beta-BHC	ND		ug/kg	1.78	0.677	1	A
Heptachlor	ND		ug/kg	0.893	0.400	1	A
Aldrin	ND		ug/kg	1.78	0.629	1	A
Heptachlor epoxide	ND		ug/kg	3.35	1.00	1	A
Endrin	ND		ug/kg	0.744	0.305	1	A
Endrin aldehyde	ND		ug/kg	2.23	0.781	1	A
Endrin ketone	ND		ug/kg	1.78	0.460	1	A
Dieldrin	144		ug/kg	1.12	0.558	1	B
4,4'-DDE	2190	E	ug/kg	1.78	0.413	1	B
4,4'-DDD	505	E	ug/kg	1.78	0.637	1	B
4,4'-DDT	3560	E	ug/kg	3.35	1.44	1	B
Endosulfan I	ND		ug/kg	1.78	0.422	1	A
Endosulfan II	ND		ug/kg	1.78	0.597	1	A
Endosulfan sulfate	ND		ug/kg	0.744	0.354	1	A
Methoxychlor	ND		ug/kg	3.35	1.04	1	A
Toxaphene	ND		ug/kg	33.5	9.38	1	A
cis-Chlordane	261	E	ug/kg	2.23	0.622	1	A
trans-Chlordane	234	E	ug/kg	2.23	0.589	1	B
Chlordane	1480	E	ug/kg	14.9	5.92	1	B

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-02

Date Collected: 11/19/20 09:00

Client ID: S-20 (4-5)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	122		30-150	B

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-02 D3

Date Collected: 11/19/20 09:00

Client ID: S-20 (4-5)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8081B

Extraction Date: 11/20/20 10:20

Analytical Date: 11/24/20 14:33

Cleanup Method: EPA 3620B

Analyst: BM

Cleanup Date: 11/20/20

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
4,4'-DDT	19400		ug/kg	670	287.	200	A

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-02 D2

Date Collected: 11/19/20 09:00

Client ID: S-20 (4-5)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8081B

Extraction Date: 11/20/20 10:20

Analytical Date: 11/24/20 13:27

Cleanup Method: EPA 3620B

Analyst: BM

Cleanup Date: 11/20/20

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
4,4'-DDE	5240		ug/kg	89.3	20.6	50	A



**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-02 D

Date Collected: 11/19/20 09:00

Client ID: S-20 (4-5)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8081B

Extraction Date: 11/20/20 10:20

Analytical Date: 11/24/20 13:15

Cleanup Method: EPA 3620B

Analyst: BM

Cleanup Date: 11/20/20

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
4,4'-DDD	948		ug/kg	17.8	6.37	10	B
cis-Chlordane	330	IP	ug/kg	22.3	6.22	10	B
trans-Chlordane	412		ug/kg	22.3	5.89	10	A
Chlordane	2250		ug/kg	149	59.2	10	B

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-03  
 Client ID: S-21 (3-4)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 09:20  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 11/23/20 08:46  
 Analyst: BM  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 11/20/20 10:20  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 11/20/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.369	1	A
Lindane	ND		ug/kg	0.786	0.351	1	A
Alpha-BHC	ND		ug/kg	0.786	0.223	1	A
Beta-BHC	ND		ug/kg	1.88	0.715	1	A
Heptachlor	ND		ug/kg	0.943	0.423	1	A
Aldrin	ND		ug/kg	1.88	0.664	1	A
Heptachlor epoxide	ND		ug/kg	3.54	1.06	1	A
Endrin	ND		ug/kg	0.786	0.322	1	A
Endrin aldehyde	ND		ug/kg	2.36	0.825	1	A
Endrin ketone	ND		ug/kg	1.88	0.486	1	A
Dieldrin	5.58		ug/kg	1.18	0.589	1	A
4,4'-DDE	10.3		ug/kg	1.88	0.436	1	A
4,4'-DDD	ND		ug/kg	1.88	0.673	1	A
4,4'-DDT	44.0		ug/kg	3.54	1.52	1	A
Endosulfan I	ND		ug/kg	1.88	0.446	1	A
Endosulfan II	ND		ug/kg	1.88	0.630	1	A
Endosulfan sulfate	ND		ug/kg	0.786	0.374	1	A
Methoxychlor	ND		ug/kg	3.54	1.10	1	A
Toxaphene	ND		ug/kg	35.4	9.90	1	A
cis-Chlordane	6.08		ug/kg	2.36	0.657	1	A
trans-Chlordane	8.47		ug/kg	2.36	0.622	1	A
Chlordane	65.4		ug/kg	15.7	6.25	1	B

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-03

Date Collected: 11/19/20 09:20

Client ID: S-21 (3-4)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	118		30-150	B

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-04  
 Client ID: TW-6  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 12:00  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8081B  
 Analytical Date: 11/23/20 11:04  
 Analyst: BM

Extraction Method: EPA 3510C  
 Extraction Date: 11/20/20 17:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	0.009	JIP	ug/l	0.014	0.003	1	B
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	0.136		ug/l	0.029	0.003	1	B
4,4'-DDE	0.556		ug/l	0.029	0.003	1	B
4,4'-DDD	0.059		ug/l	0.029	0.003	1	B
4,4'-DDT	1.04		ug/l	0.029	0.003	1	B
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	0.309		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	0.098		ug/l	0.014	0.005	1	A
trans-Chlordane	0.092		ug/l	0.014	0.004	1	B
Chlordane	1.20	P	ug/l	0.143	0.033	1	A

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20**SAMPLE RESULTS**

Lab ID: L2051740-04

Date Collected: 11/19/20 12:00

Client ID: TW-6

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		30-150	B
Decachlorobiphenyl	64		30-150	B

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 11/23/20 07:56  
Analyst: BM

Extraction Method: EPA 3546  
Extraction Date: 11/20/20 10:20  
Cleanup Method: EPA 3620B  
Cleanup Date: 11/20/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1436649-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.650	0.291	A
Alpha-BHC	ND		ug/kg	0.650	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.592	A
Heptachlor	ND		ug/kg	0.780	0.350	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.878	A
Endrin	ND		ug/kg	0.650	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.683	A
Endrin ketone	ND		ug/kg	1.56	0.402	A
Dieldrin	ND		ug/kg	0.975	0.488	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.556	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.369	A
Endosulfan II	ND		ug/kg	1.56	0.521	A
Endosulfan sulfate	ND		ug/kg	0.650	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.910	A
Toxaphene	ND		ug/kg	29.2	8.19	A
cis-Chlordane	ND		ug/kg	1.95	0.544	A
trans-Chlordane	ND		ug/kg	1.95	0.515	A
Chlordane	ND		ug/kg	13.0	5.17	A

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 11/23/20 07:56  
Analyst: BM

Extraction Method: EPA 3546  
Extraction Date: 11/20/20 10:20  
Cleanup Method: EPA 3620B  
Cleanup Date: 11/20/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1436649-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	140		30-150	B

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 11/23/20 10:34  
Analyst: BM

Extraction Method: EPA 3510C  
Extraction Date: 11/20/20 17:44

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG1436847-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A



**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 11/23/20 10:34  
Analyst: BM

Extraction Method: EPA 3510C  
Extraction Date: 11/20/20 17:44

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG1436847-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	54		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1436649-2 WG1436649-3									
Delta-BHC	77		68		30-150	12		30	A
Lindane	80		70		30-150	13		30	A
Alpha-BHC	85		74		30-150	14		30	A
Beta-BHC	94		84		30-150	11		30	A
Heptachlor	90		79		30-150	13		30	A
Aldrin	78		67		30-150	15		30	A
Heptachlor epoxide	74		66		30-150	11		30	A
Endrin	78		69		30-150	12		30	A
Endrin aldehyde	58		52		30-150	11		30	A
Endrin ketone	70		65		30-150	7		30	A
Dieldrin	80		72		30-150	11		30	A
4,4'-DDE	81		70		30-150	15		30	A
4,4'-DDD	78		70		30-150	11		30	A
4,4'-DDT	74		66		30-150	11		30	A
Endosulfan I	88		76		30-150	15		30	A
Endosulfan II	89		80		30-150	11		30	A
Endosulfan sulfate	70		64		30-150	9		30	A
Methoxychlor	84		78		30-150	7		30	A
cis-Chlordane	84		78		30-150	7		30	A
trans-Chlordane	85		75		30-150	13		30	A

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1436649-2 WG1436649-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	82		71		30-150	A
Decachlorobiphenyl	97		88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		81		30-150	B
Decachlorobiphenyl	150		129		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1436847-2 WG1436847-3									
Delta-BHC	75		70		30-150	7		20	A
Lindane	76		71		30-150	6		20	A
Alpha-BHC	80		77		30-150	4		20	A
Beta-BHC	80		77		30-150	3		20	A
Heptachlor	90		85		30-150	5		20	A
Aldrin	77		73		30-150	4		20	A
Heptachlor epoxide	77		74		30-150	4		20	A
Endrin	87		84		30-150	4		20	A
Endrin aldehyde	48		52		30-150	7		20	A
Endrin ketone	74		71		30-150	4		20	A
Dieldrin	80		76		30-150	5		20	A
4,4'-DDE	81		77		30-150	4		20	A
4,4'-DDD	89		83		30-150	6		20	A
4,4'-DDT	77		72		30-150	6		20	A
Endosulfan I	76		73		30-150	4		20	A
Endosulfan II	80		76		30-150	5		20	A
Endosulfan sulfate	76		72		30-150	5		20	A
Methoxychlor	84		80		30-150	4		20	A
cis-Chlordane	75		72		30-150	4		20	A
trans-Chlordane	76		73		30-150	5		20	A

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
-----------	-------------------------	-------------	--------------------------	-------------	----------------------------	------------	-------------	----------------------

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1436847-2 WG1436847-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	76		81		30-150	A
Decachlorobiphenyl	87		87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		79		30-150	B
Decachlorobiphenyl	63		61		30-150	B

## METALS

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-01  
 Client ID: S-19 (2-3)  
 Sample Location: NEW ROCHELLE, NY

Date Collected: 11/19/20 08:45  
 Date Received: 11/19/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4750		mg/kg	9.02	2.44	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Antimony, Total	3.80	J	mg/kg	4.51	0.343	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Arsenic, Total	16.1		mg/kg	0.902	0.188	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Barium, Total	713		mg/kg	0.902	0.157	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.451	0.030	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Cadmium, Total	1.94		mg/kg	0.902	0.088	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Calcium, Total	46200		mg/kg	90.2	31.6	20	11/23/20 18:07	11/24/20 11:46	EPA 3050B	1,6010D	GD
Chromium, Total	15.4		mg/kg	0.902	0.087	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Cobalt, Total	6.03		mg/kg	1.80	0.150	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Copper, Total	19.7		mg/kg	0.902	0.233	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Iron, Total	27500		mg/kg	4.51	0.814	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Lead, Total	2530		mg/kg	4.51	0.242	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Magnesium, Total	8250		mg/kg	9.02	1.39	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Manganese, Total	207		mg/kg	0.902	0.143	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Mercury, Total	0.430		mg/kg	0.079	0.052	1	11/23/20 18:08	11/24/20 10:16	EPA 7471B	1,7471B	EW
Nickel, Total	13.2		mg/kg	2.26	0.218	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Potassium, Total	1370		mg/kg	226	13.0	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Selenium, Total	0.595	J	mg/kg	1.80	0.233	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.902	0.255	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Sodium, Total	736		mg/kg	180	2.84	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Thallium, Total	0.532	J	mg/kg	1.80	0.284	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Vanadium, Total	20.0		mg/kg	0.902	0.183	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV
Zinc, Total	997		mg/kg	4.51	0.264	2	11/23/20 18:07	11/23/20 23:59	EPA 3050B	1,6010D	BV



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-02

Date Collected: 11/19/20 09:00

Client ID: S-20 (4-5)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4850		mg/kg	9.01	2.43	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.50	0.342	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Arsenic, Total	3.94		mg/kg	0.901	0.187	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Barium, Total	411		mg/kg	0.901	0.157	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.450	0.030	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Cadmium, Total	0.720	J	mg/kg	0.901	0.088	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Calcium, Total	51400		mg/kg	90.1	31.5	20	11/23/20 18:07	11/24/20 11:51	EPA 3050B	1,6010D	GD
Chromium, Total	10.7		mg/kg	0.901	0.087	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Cobalt, Total	3.97		mg/kg	1.80	0.150	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Copper, Total	15.0		mg/kg	0.901	0.232	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Iron, Total	7580		mg/kg	4.50	0.813	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Lead, Total	615		mg/kg	4.50	0.241	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Magnesium, Total	9490		mg/kg	9.01	1.39	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Manganese, Total	152		mg/kg	0.901	0.143	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Mercury, Total	0.119		mg/kg	0.077	0.050	1	11/23/20 18:08	11/24/20 10:19	EPA 7471B	1,7471B	EW
Nickel, Total	8.82		mg/kg	2.25	0.218	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Potassium, Total	915		mg/kg	225	13.0	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.80	0.232	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.901	0.255	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Sodium, Total	778		mg/kg	180	2.84	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.80	0.284	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Vanadium, Total	26.6		mg/kg	0.901	0.183	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV
Zinc, Total	313		mg/kg	4.50	0.264	2	11/23/20 18:07	11/24/20 00:04	EPA 3050B	1,6010D	BV





Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-03

Date Collected: 11/19/20 09:20

Client ID: S-21 (3-4)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	5490		mg/kg	9.17	2.48	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.58	0.348	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Arsenic, Total	7.13		mg/kg	0.917	0.191	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Barium, Total	312		mg/kg	0.917	0.160	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.458	0.030	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Cadmium, Total	0.779	J	mg/kg	0.917	0.090	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Calcium, Total	76800		mg/kg	91.7	32.1	20	11/23/20 18:07	11/24/20 11:55	EPA 3050B	1,6010D	GD
Chromium, Total	10.0		mg/kg	0.917	0.088	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Cobalt, Total	4.19		mg/kg	1.83	0.152	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Copper, Total	15.9		mg/kg	0.917	0.236	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Iron, Total	7210		mg/kg	4.58	0.828	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Lead, Total	293		mg/kg	4.58	0.246	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Magnesium, Total	9240		mg/kg	9.17	1.41	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Manganese, Total	92.5		mg/kg	0.917	0.146	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Mercury, Total	0.203		mg/kg	0.076	0.049	1	11/23/20 18:08	11/24/20 10:22	EPA 7471B	1,7471B	EW
Nickel, Total	9.92		mg/kg	2.29	0.222	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Potassium, Total	966		mg/kg	229	13.2	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.83	0.236	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.917	0.260	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Sodium, Total	949		mg/kg	183	2.89	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.83	0.289	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Vanadium, Total	17.5		mg/kg	0.917	0.186	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV
Zinc, Total	231		mg/kg	4.58	0.269	2	11/23/20 18:07	11/24/20 00:09	EPA 3050B	1,6010D	BV



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-04

Date Collected: 11/19/20 12:00

Client ID: TW-6

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	40.8		mg/l	0.0500	0.0164	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Antimony, Total	0.00554	J	mg/l	0.02000	0.00214	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Arsenic, Total	0.02566		mg/l	0.00250	0.00082	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Barium, Total	3.515		mg/l	0.00250	0.00086	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00279		mg/l	0.00250	0.00053	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00481		mg/l	0.00100	0.00029	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Calcium, Total	583.		mg/l	0.500	0.197	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Chromium, Total	0.1818		mg/l	0.00500	0.00089	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Cobalt, Total	0.04733		mg/l	0.00250	0.00081	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Copper, Total	0.1873		mg/l	0.00500	0.00192	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Iron, Total	63.7		mg/l	0.250	0.0955	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Lead, Total	10.66		mg/l	0.00500	0.00171	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Magnesium, Total	162.		mg/l	0.350	0.121	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Manganese, Total	2.821		mg/l	0.00500	0.00220	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Mercury, Total	0.00090		mg/l	0.00020	0.00009	1	11/23/20 17:30	11/24/20 08:33	EPA 7470A	1,7470A	EW
Nickel, Total	0.1426		mg/l	0.01000	0.00278	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Potassium, Total	30.1		mg/l	0.500	0.154	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.0250	0.00865	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00200	0.00081	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Sodium, Total	728.		mg/l	0.500	0.146	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Thallium, Total	0.00179	J	mg/l	0.00500	0.00071	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Vanadium, Total	0.2728		mg/l	0.02500	0.00785	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
Zinc, Total	2.693		mg/l	0.05000	0.01705	5	11/23/20 17:00	11/24/20 11:16	EPA 3005A	1,6020B	AM
<b>Dissolved Metals - Mansfield Lab</b>											
Aluminum, Dissolved	0.0317		mg/l	0.0100	0.00327	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00264	J	mg/l	0.00400	0.00042	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00138		mg/l	0.00050	0.00016	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.1156		mg/l	0.00050	0.00017	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-04

Date Collected: 11/19/20 12:00

Client ID: TW-6

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Calcium, Dissolved	102.		mg/l	0.100	0.0394	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Chromium, Dissolved	0.00322		mg/l	0.00100	0.00017	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	0.00171		mg/l	0.00050	0.00016	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00591		mg/l	0.00100	0.00038	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Iron, Dissolved	0.0467	J	mg/l	0.0500	0.0191	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Lead, Dissolved	0.00816		mg/l	0.00100	0.00034	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	117.		mg/l	0.0700	0.0242	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Manganese, Dissolved	0.1711		mg/l	0.00100	0.00044	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	11/23/20 17:36	11/24/20 08:21	EPA 7470A	1,7470A	EW
Nickel, Dissolved	0.02053		mg/l	0.00200	0.00055	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Potassium, Dissolved	21.6		mg/l	0.100	0.0309	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Selenium, Dissolved	0.00567		mg/l	0.00500	0.00173	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Sodium, Dissolved	946.		mg/l	1.00	0.293	10	11/23/20 13:44	11/23/20 19:02	EPA 3005A	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	0.00363	J	mg/l	0.00500	0.00157	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM
Zinc, Dissolved	0.00674	J	mg/l	0.01000	0.00341	1	11/23/20 13:44	11/23/20 18:06	EPA 3005A	1,6020B	AM



Project Name: 329 HUGUENOT  
Project Number: 11571

Lab Number: L2051740  
Report Date: 11/30/20

## Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
<b>Total Metals - Mansfield Lab for sample(s): 04 Batch: WG1437553-1</b>										
Aluminum, Total	ND	mg/l	0.0100	0.00327	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Antimony, Total	ND	mg/l	0.00400	0.00042	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Arsenic, Total	ND	mg/l	0.00050	0.00016	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Barium, Total	ND	mg/l	0.00050	0.00017	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Beryllium, Total	ND	mg/l	0.00050	0.00010	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Cadmium, Total	ND	mg/l	0.00020	0.00005	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Calcium, Total	ND	mg/l	0.100	0.0394	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Chromium, Total	ND	mg/l	0.00100	0.00017	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Cobalt, Total	ND	mg/l	0.00050	0.00016	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Copper, Total	ND	mg/l	0.00100	0.00038	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Iron, Total	ND	mg/l	0.0500	0.0191	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Lead, Total	ND	mg/l	0.00100	0.00034	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Magnesium, Total	ND	mg/l	0.0700	0.0242	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Manganese, Total	ND	mg/l	0.00100	0.00044	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Nickel, Total	ND	mg/l	0.00200	0.00055	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Potassium, Total	ND	mg/l	0.100	0.0309	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Selenium, Total	ND	mg/l	0.00500	0.00173	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Silver, Total	ND	mg/l	0.00040	0.00016	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Sodium, Total	ND	mg/l	0.100	0.0293	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Thallium, Total	0.00015	J	mg/l	0.00100	0.00014	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM
Vanadium, Total	ND	mg/l	0.00500	0.00157	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	
Zinc, Total	ND	mg/l	0.01000	0.00341	1	11/23/20 17:00	11/24/20 09:50	1,6020B	AM	

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Dissolved Metals - Mansfield Lab for sample(s): 04 Batch: WG1437555-1</b>									
Aluminum, Dissolved	ND	mg/l	0.0100	0.00327	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Antimony, Dissolved	ND	mg/l	0.00400	0.00042	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Arsenic, Dissolved	ND	mg/l	0.00050	0.00016	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM



**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

### Method Blank Analysis Batch Quality Control

Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Sodium, Dissolved	0.0558	J	mg/l	0.100	0.0293	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	11/23/20 13:44	11/23/20 17:25	1,6020B	AM

#### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 04 Batch: WG1437559-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	11/23/20 17:30	11/24/20 08:28	1,7470A	EW

#### Prep Information

Digestion Method: EPA 7470A



Project Name: 329 HUGUENOT  
Project Number: 11571

Lab Number: L2051740  
Report Date: 11/30/20

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1437599-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Antimony, Total	ND		mg/kg	2.00	0.152	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Arsenic, Total	0.112	J	mg/kg	0.400	0.083	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Barium, Total	ND		mg/kg	0.400	0.070	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Beryllium, Total	ND		mg/kg	0.200	0.013	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Calcium, Total	ND		mg/kg	4.00	1.40	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Chromium, Total	0.100	J	mg/kg	0.400	0.038	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Cobalt, Total	ND		mg/kg	0.800	0.066	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Copper, Total	ND		mg/kg	0.400	0.103	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Iron, Total	2.13		mg/kg	2.00	0.361	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Lead, Total	ND		mg/kg	2.00	0.107	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Magnesium, Total	ND		mg/kg	4.00	0.616	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Manganese, Total	0.068	J	mg/kg	0.400	0.064	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Nickel, Total	ND		mg/kg	1.00	0.097	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Potassium, Total	ND		mg/kg	100	5.76	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Selenium, Total	ND		mg/kg	0.800	0.103	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Silver, Total	ND		mg/kg	0.400	0.113	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Sodium, Total	6.09	J	mg/kg	80.0	1.26	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Thallium, Total	ND		mg/kg	0.800	0.126	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Vanadium, Total	ND		mg/kg	0.400	0.081	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV
Zinc, Total	ND		mg/kg	2.00	0.117	1	11/23/20 18:07	11/23/20 22:41	1,6010D	BV

### Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1437600-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	11/23/20 18:08	11/24/20 09:29	1,7471B	EW



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## Method Blank Analysis Batch Quality Control

### Prep Information

---

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 04 Batch: WG1437637-1									
Mercury, Dissolved	ND	mg/l	0.00020	0.00009	1	11/23/20 17:36	11/24/20 08:17	1,7470A	EW

### Prep Information

---

Digestion Method: EPA 7470A

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1437553-2								
Aluminum, Total	100		-		80-120	-		
Antimony, Total	84		-		80-120	-		
Arsenic, Total	99		-		80-120	-		
Barium, Total	100		-		80-120	-		
Beryllium, Total	95		-		80-120	-		
Cadmium, Total	112		-		80-120	-		
Calcium, Total	98		-		80-120	-		
Chromium, Total	101		-		80-120	-		
Cobalt, Total	102		-		80-120	-		
Copper, Total	103		-		80-120	-		
Iron, Total	106		-		80-120	-		
Lead, Total	100		-		80-120	-		
Magnesium, Total	104		-		80-120	-		
Manganese, Total	98		-		80-120	-		
Nickel, Total	99		-		80-120	-		
Potassium, Total	98		-		80-120	-		
Selenium, Total	97		-		80-120	-		
Silver, Total	104		-		80-120	-		
Sodium, Total	104		-		80-120	-		
Thallium, Total	99		-		80-120	-		
Vanadium, Total	100		-		80-120	-		



## Lab Control Sample Analysis

Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1437553-2					
Zinc, Total	105	-	80-120	-	

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1437555-2					
Aluminum, Dissolved	98	-	80-120	-	
Antimony, Dissolved	98	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Barium, Dissolved	102	-	80-120	-	
Beryllium, Dissolved	103	-	80-120	-	
Cadmium, Dissolved	107	-	80-120	-	
Calcium, Dissolved	106	-	80-120	-	
Chromium, Dissolved	97	-	80-120	-	
Cobalt, Dissolved	99	-	80-120	-	
Copper, Dissolved	99	-	80-120	-	
Iron, Dissolved	102	-	80-120	-	
Lead, Dissolved	103	-	80-120	-	
Magnesium, Dissolved	107	-	80-120	-	
Manganese, Dissolved	98	-	80-120	-	
Nickel, Dissolved	96	-	80-120	-	
Potassium, Dissolved	108	-	80-120	-	
Selenium, Dissolved	101	-	80-120	-	
Silver, Dissolved	103	-	80-120	-	
Sodium, Dissolved	104	-	80-120	-	
Thallium, Dissolved	100	-	80-120	-	
Vanadium, Dissolved	98	-	80-120	-	

## Lab Control Sample Analysis

Batch Quality Control

Project Name: 329 HUGUENOT

Project Number: 11571

Lab Number: L2051740

Report Date: 11/30/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1437555-2					
Zinc, Dissolved	103	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1437559-2					
Mercury, Total	110	-	80-120	-	

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1437599-2 SRM Lot Number: D109-540					
Aluminum, Total	71	-	50-150	-	
Antimony, Total	164	-	19-250	-	
Arsenic, Total	99	-	70-130	-	
Barium, Total	97	-	75-125	-	
Beryllium, Total	97	-	75-125	-	
Cadmium, Total	94	-	75-125	-	
Calcium, Total	92	-	73-128	-	
Chromium, Total	97	-	70-130	-	
Cobalt, Total	95	-	75-125	-	
Copper, Total	97	-	75-125	-	
Iron, Total	95	-	35-165	-	
Lead, Total	95	-	72-128	-	
Magnesium, Total	85	-	62-138	-	
Manganese, Total	96	-	74-126	-	
Nickel, Total	95	-	70-130	-	
Potassium, Total	87	-	59-141	-	
Selenium, Total	96	-	68-132	-	
Silver, Total	97	-	68-131	-	
Sodium, Total	102	-	35-165	-	
Thallium, Total	97	-	68-131	-	
Vanadium, Total	97	-	59-141	-	

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Project Number: 11571

Lab Number: L2051740

Report Date: 11/30/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1437599-2 SRM Lot Number: D109-540					
Zinc, Total	97	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1437600-2 SRM Lot Number: D109-540					
Mercury, Total	98	-	60-140	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1437637-2					
Mercury, Dissolved	107	-	80-120	-	

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1437553-3 QC Sample: L2051740-04 Client ID: TW-6												
Aluminum, Total	40.8	4	93.7	1320	Q	-	-		75-125	-		20
Antimony, Total	0.00554J	1	0.2680	27	Q	-	-		75-125	-		20
Arsenic, Total	0.02566	0.24	0.2364	88		-	-		75-125	-		20
Barium, Total	3.515	4	8.155	116		-	-		75-125	-		20
Beryllium, Total	0.00279	0.1	0.09906	96		-	-		75-125	-		20
Cadmium, Total	0.00481	0.102	0.1140	107		-	-		75-125	-		20
Calcium, Total	583.	20	666	415	Q	-	-		75-125	-		20
Chromium, Total	0.1818	0.4	0.6986	129	Q	-	-		75-125	-		20
Cobalt, Total	0.04733	1	1.046	100		-	-		75-125	-		20
Copper, Total	0.1873	0.5	0.7978	122		-	-		75-125	-		20
Iron, Total	63.7	2	128	3220	Q	-	-		75-125	-		20
Lead, Total	10.66	1.02	13.04	233	Q	-	-		75-125	-		20
Magnesium, Total	162.	20	204	210	Q	-	-		75-125	-		20
Manganese, Total	2.821	1	4.533	171	Q	-	-		75-125	-		20
Nickel, Total	0.1426	1	1.150	101		-	-		75-125	-		20
Potassium, Total	30.1	20	63.8	168	Q	-	-		75-125	-		20
Selenium, Total	ND	0.24	0.169	70	Q	-	-		75-125	-		20
Silver, Total	ND	0.1	0.1032	103		-	-		75-125	-		20
Sodium, Total	728.	20	778	250	Q	-	-		75-125	-		20
Thallium, Total	0.00179J	0.24	0.2342	98		-	-		75-125	-		20
Vanadium, Total	0.2728	1	1.392	112		-	-		75-125	-		20

**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Limits</b>	
Total Metals - Mansfield Lab Associated sample(s): 04    QC Batch ID: WG1437553-3    QC Sample: L2051740-04    Client ID: TW-6										
Zinc, Total	2.693	1	5.541	<b>285</b>	Q	-	-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1437555-3 QC Sample: L2051740-04 Client ID: TW-6									
Aluminum, Dissolved	0.0317	2	1.97	97	-	-	75-125	-	20
Antimony, Dissolved	0.00264J	0.5	0.5411	108	-	-	75-125	-	20
Arsenic, Dissolved	0.00138	0.12	0.1219	100	-	-	75-125	-	20
Barium, Dissolved	0.1156	2	2.138	101	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05093	102	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05113	100	-	-	75-125	-	20
Calcium, Dissolved	102.	10	122	<b>200</b>	Q	-	75-125	-	20
Chromium, Dissolved	0.00322	0.2	0.1896	93	-	-	75-125	-	20
Cobalt, Dissolved	0.00171	0.5	0.4757	95	-	-	75-125	-	20
Copper, Dissolved	0.00591	0.25	0.2389	93	-	-	75-125	-	20
Iron, Dissolved	0.0467J	1	0.966	97	-	-	75-125	-	20
Lead, Dissolved	0.00816	0.51	0.5366	104	-	-	75-125	-	20
Magnesium, Dissolved	117.	10	123	<b>60</b>	Q	-	75-125	-	20
Manganese, Dissolved	0.1711	0.5	0.6615	98	-	-	75-125	-	20
Nickel, Dissolved	0.02053	0.5	0.4855	93	-	-	75-125	-	20
Potassium, Dissolved	21.6	10	33.0	114	-	-	75-125	-	20
Selenium, Dissolved	0.00567	0.12	0.124	99	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05036	101	-	-	75-125	-	20
Sodium, Dissolved	946.	10	886	<b>0</b>	Q	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1239	103	-	-	75-125	-	20
Vanadium, Dissolved	0.00363J	0.5	0.4868	97	-	-	75-125	-	20



**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>RPD Limits</b>
Dissolved Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1437555-3 QC Sample: L2051740-04 Client ID: TW-6									
Zinc, Dissolved	0.00674J	0.5	0.4877	98	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1437559-3 QC Sample: L2051740-04 Client ID: TW-6									
Mercury, Total	0.00090	0.005	0.00596	101	-	-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03    QC Batch ID: WG1437599-3    QC Sample: L2051528-01    Client ID: MS Sample									
Aluminum, Total	1550	160	1590	25	Q	-	75-125	-	20
Antimony, Total	ND	40	38.1	95	-	-	75-125	-	20
Arsenic, Total	0.786	9.6	10.6	102	-	-	75-125	-	20
Barium, Total	6.26	160	159	95	-	-	75-125	-	20
Beryllium, Total	0.087J	4	3.81	95	-	-	75-125	-	20
Cadmium, Total	0.147J	4.08	4.13	101	-	-	75-125	-	20
Calcium, Total	176	800	860	86	-	-	75-125	-	20
Chromium, Total	3.07	16	17.1	88	-	-	75-125	-	20
Cobalt, Total	1.89	40	38.4	91	-	-	75-125	-	20
Copper, Total	3.50	20	22.0	92	-	-	75-125	-	20
Iron, Total	5060	80	4530	0	Q	-	75-125	-	20
Lead, Total	1.49J	40.8	39.3	96	-	-	75-125	-	20
Magnesium, Total	406	800	1050	80	-	-	75-125	-	20
Manganese, Total	72.6	40	110	94	-	-	75-125	-	20
Nickel, Total	3.70	40	38.8	88	-	-	75-125	-	20
Potassium, Total	220	800	962	93	-	-	75-125	-	20
Selenium, Total	0.131J	9.6	9.63	100	-	-	75-125	-	20
Silver, Total	ND	24	23.2	97	-	-	75-125	-	20
Sodium, Total	30.7J	800	831	104	-	-	75-125	-	20
Thallium, Total	ND	9.6	8.84	92	-	-	75-125	-	20
Vanadium, Total	3.21	40	39.8	91	-	-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03    QC Batch ID: WG1437599-3    QC Sample: L2051528-01    Client ID: MS Sample									
Zinc, Total	6.77	40	43.0	90	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03    QC Batch ID: WG1437600-3    QC Sample: L2051528-01    Client ID: MS Sample									
Mercury, Total	ND	0.132	0.137	103	-	-	80-120	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 04    QC Batch ID: WG1437637-3    QC Sample: L2051740-04    Client ID: TW-6									
Mercury, Dissolved	ND	0.005	0.00503	101	-	-	75-125	-	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 329 HUGUENOT

Project Number: 11571

Lab Number: L2051740

Report Date: 11/30/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1437553-4 QC Sample: L2051740-04 Client ID: TW-6						
Aluminum, Total	40.8	106	mg/l	89	Q	20
Antimony, Total	0.00554J	0.01025J	mg/l	NC		20
Arsenic, Total	0.02566	0.05828	mg/l	78	Q	20
Barium, Total	3.515	11.67	mg/l	107	Q	20
Beryllium, Total	0.00279	0.00535	mg/l	63	Q	20
Cadmium, Total	0.00481	0.00629	mg/l	27	Q	20
Calcium, Total	583.	652	mg/l	11		20
Chromium, Total	0.1818	0.3392	mg/l	60	Q	20
Cobalt, Total	0.04733	0.08174	mg/l	53	Q	20
Copper, Total	0.1873	0.3439	mg/l	59	Q	20
Iron, Total	63.7	176	mg/l	94	Q	20
Lead, Total	10.66	12.33	mg/l	15		20
Magnesium, Total	162.	194	mg/l	18		20
Manganese, Total	2.821	3.915	mg/l	32	Q	20
Nickel, Total	0.1426	0.2557	mg/l	57	Q	20
Potassium, Total	30.1	55.2	mg/l	59	Q	20
Selenium, Total	ND	0.0136J	mg/l	NC		20
Silver, Total	ND	0.00237	mg/l	NC		20
Sodium, Total	728.	784	mg/l	7		20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 329 HUGUENOT

Project Number: 11571

Lab Number: L2051740

Report Date: 11/30/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1437553-4 QC Sample: L2051740-04 Client ID: TW-6					
Thallium, Total	0.00179J	0.00594	mg/l	NC	20
Vanadium, Total	0.2728	0.4641	mg/l	52 Q	20
Zinc, Total	2.693	4.349	mg/l	47 Q	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 329 HUGUENOT

Project Number: 11571

Lab Number: L2051740

Report Date: 11/30/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1437555-4 QC Sample: L2051740-04 Client ID: TW-6					
Aluminum, Dissolved	0.0317	0.0297	mg/l	7	20
Antimony, Dissolved	0.00264J	0.00353J	mg/l	NC	20
Arsenic, Dissolved	0.00138	0.00135	mg/l	2	20
Barium, Dissolved	0.1156	0.1142	mg/l	1	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	102.	103	mg/l	1	20
Chromium, Dissolved	0.00322	0.00345	mg/l	7	20
Cobalt, Dissolved	0.00171	0.00170	mg/l	1	20
Copper, Dissolved	0.00591	0.00175	mg/l	108	Q 20
Iron, Dissolved	0.0467J	0.0389J	mg/l	NC	20
Lead, Dissolved	0.00816	0.00821	mg/l	1	20
Magnesium, Dissolved	117.	118	mg/l	1	20
Manganese, Dissolved	0.1711	0.1734	mg/l	1	20
Nickel, Dissolved	0.02053	0.01997	mg/l	3	20
Potassium, Dissolved	21.6	21.8	mg/l	1	20
Selenium, Dissolved	0.00567	0.00513	mg/l	10	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Thallium, Dissolved	ND	0.00031J	mg/l	NC	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 329 HUGUENOT

Project Number: 11571

Lab Number: L2051740

Report Date: 11/30/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Dissolved Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1437555-4 QC Sample: L2051740-04 Client ID: TW-6</b>					
Vanadium, Dissolved	0.00363J	0.00372J	mg/l	NC	20
Zinc, Dissolved	0.00674J	0.00682J	mg/l	NC	20
<b>Dissolved Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1437555-4 QC Sample: L2051740-04 Client ID: TW-6</b>					
Sodium, Dissolved	946.	889	mg/l	6	20
<b>Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1437559-4 QC Sample: L2051740-04 Client ID: TW-6</b>					
Mercury, Total	0.00090	0.00095	mg/l	5	20
<b>Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1437599-4 QC Sample: L2051528-01 Client ID: DUP Sample</b>					
Arsenic, Total	0.786	0.362J	mg/kg	NC	20
Barium, Total	6.26	7.68	mg/kg	20	20
Cadmium, Total	0.147J	0.323J	mg/kg	NC	20
Chromium, Total	3.07	2.69	mg/kg	13	20
Lead, Total	1.49J	1.95	mg/kg	NC	20
Selenium, Total	0.131J	0.385J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
<b>Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1437600-4 QC Sample: L2051528-01 Client ID: DUP Sample</b>					
Mercury, Total	ND	ND	mg/kg	NC	20
<b>Dissolved Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1437637-4 QC Sample: L2051740-04 Client ID: TW-6</b>					
Mercury, Dissolved	ND	ND	mg/l	NC	20

# **INORGANICS & MISCELLANEOUS**



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-01

Date Collected: 11/19/20 08:45

Client ID: S-19 (2-3)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	84.5		%	0.100	NA	1	-	11/20/20 12:08	121,2540G	RI
Cyanide, Total	3.8		mg/kg	1.2	0.25	1	11/24/20 09:40	11/24/20 12:54	1,9010C/9012B	CR



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-02

Date Collected: 11/19/20 09:00

Client ID: S-20 (4-5)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	11/20/20 12:08	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	11/24/20 09:40	11/24/20 12:55	1,9010C/9012B	CR



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

## SAMPLE RESULTS

Lab ID: L2051740-03

Date Collected: 11/19/20 09:20

Client ID: S-21 (3-4)

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.5		%	0.100	NA	1	-	11/20/20 12:08	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	11/24/20 09:40	11/24/20 13:03	1,9010C/9012B	CR



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

**SAMPLE RESULTS**

Lab ID: L2051740-04

Date Collected: 11/19/20 12:00

Client ID: TW-6

Date Received: 11/19/20

Sample Location: NEW ROCHELLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	0.005		mg/l	0.005	0.001	1	11/24/20 11:40	11/24/20 16:16	1,9010C/9012B	CR



Project Name: 329 HUGUENOT

Lab Number: L2051740

Project Number: 11571

Report Date: 11/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1437608-1									
Cyanide, Total	ND	mg/kg	0.94	0.20	1	11/24/20 09:40	11/24/20 12:35	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1437609-1									
Cyanide, Total	ND	mg/kg	0.94	0.20	1	11/24/20 09:40	11/24/20 12:38	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1437951-1									
Cyanide, Total	ND	mg/l	0.005	0.001	1	11/24/20 11:40	11/24/20 16:08	1,9010C/9012B	CR

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 329 HUGUENOT

Project Number: 11571

Lab Number: L2051740

Report Date: 11/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1437608-2 WG1437608-3								
Cyanide, Total	31	Q	57	Q	80-120	55	Q	35
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1437609-2 WG1437609-3								
Cyanide, Total	31	Q	56	Q	80-120	59	Q	35
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1437951-2 WG1437951-3								
Cyanide, Total	93		91		85-115	2		20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1437608-4 WG1437608-5 QC Sample: L2051163-03 Client ID: MS Sample												
Cyanide, Total	ND	16	14	84		15	88		75-125	7		35
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1437951-4 WG1437951-5 QC Sample: L2052146-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.109	54	Q	0.196	98		80-120	57	Q	20

**Lab Duplicate Analysis**  
*Batch Quality Control*

Project Name: 329 HUGUENOT

Project Number: 11571

Lab Number: L2051740

Report Date: 11/30/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1436620-1 QC Sample: L2051595-07 Client ID: DUP Sample						
Solids, Total	71.4	70.8	%	1		20



**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Serial\_No:**11302011:26  
**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

**Cooler**                      **Custody Seal**  
A                                      Absent

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2051740-01A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2051740-01B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2051740-01C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2051740-01D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2051740-01D1	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2051740-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2051740-01F	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2051740-01G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2051740-01X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2051740-01Y	Vial Water preserved split	A	NA		2.8	Y	Absent	20-NOV-20 14:32	NYTCL-8260HLW(14)
L2051740-01Z	Vial Water preserved split	A	NA		2.8	Y	Absent	20-NOV-20 14:32	NYTCL-8260HLW(14)
L2051740-02A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2051740-02B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2051740-02C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2051740-02D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2051740-02D1	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2051740-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2051740-02F	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Serial\_No:**11302011:26  
**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2051740-02G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14)
L2051740-02X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2051740-02Y	Vial Water preserved split	A	NA		2.8	Y	Absent	20-NOV-20 14:32	NYTCL-8260HLW(14)
L2051740-02Z	Vial Water preserved split	A	NA		2.8	Y	Absent	20-NOV-20 14:32	NYTCL-8260HLW(14)
L2051740-03A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2051740-03B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2051740-03C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2051740-03D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2051740-03D1	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2051740-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2051740-03F	Plastic 8oz unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2051740-03G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2051740-03X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L2051740-03Y	Vial Water preserved split	A	NA		2.8	Y	Absent	20-NOV-20 14:32	NYTCL-8260HLW(14)
L2051740-03Z	Vial Water preserved split	A	NA		2.8	Y	Absent	20-NOV-20 14:32	NYTCL-8260HLW(14)
L2051740-04A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2051740-04B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2051740-04C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L2051740-04D	Plastic 250ml unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2051740-04E	Plastic 250ml unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)
L2051740-04F	Plastic 250ml unpreserved	A	7	7	2.8	Y	Absent		-

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Serial\_No:**11302011:26  
**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2051740-04G	Plastic 250ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		SE-6020T(180),BA-6020T(180),FE-6020T(180),TL-6020T(180),NI-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AL-6020T(180),HG-T(28),AG-6020T(180),MG-6020T(180),CD-6020T(180),CO-6020T(180)
L2051740-04H	Plastic 250ml NaOH preserved	A	>12	>12	2.8	Y	Absent		TCN-9010(14)
L2051740-04I	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L2051740-04J	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L2051740-04K	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2051740-04L	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8081(7)
L2051740-04M	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L2051740-04N	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2051740-04X	Plastic 120ml HNO3 preserved Filtrates	A	NA		2.8	Y	Absent		SE-6020S(180),CU-6020S(180),V-6020S(180),K-6020S(180),MN-6020S(180),ZN-6020S(180),MG-6020S(180),CO-6020S(180),BE-6020S(180),CR-6020S(180),CA-6020S(180),FE-6020S(180),PB-6020S(180),NA-6020S(180),BA-6020S(180),TL-6020S(180),NI-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L2051740-05A	Plastic 250ml unpreserved	A	NA		2.8	Y	Absent		A2-NY-537-ISOTOPE(14)

Project Name: 329 HUGUENOT

Project Number: 11571

Serial\_No:11302011:26  
Lab Number: L2051740

Report Date: 11/30/20

## PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
<b>PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)</b>		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
<b>PERFLUOROALKYL SULFONIC ACIDS (PFSAs)</b>		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
<b>FLUOROTELOMERS</b>		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
<b>PERFLUOROALKANE SULFONAMIDES (FASAs)</b>		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
<b>PERFLUOROALKANE SULFONYL SUBSTANCES</b>		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
<b>PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS</b>		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
<b>CHLORO-PERFLUOROALKYL SULFONIC ACIDS</b>		
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
<b>PERFLUOROETHER SULFONIC ACIDS (PFESAs)</b>		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEEESA	113507-82-7
<b>PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)</b>		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

#### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers



**Project Name:** 329 HUGUENOT  
**Project Number:** 11571

**Lab Number:** L2051740  
**Report Date:** 11/30/20

**Data Qualifiers**

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** 329 HUGUENOT**Lab Number:** L2051740**Project Number:** 11571**Report Date:** 11/30/20

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





## Certification Information

---

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**EPA TO-12** Non-methane organics

**EPA 3C** Fixed gases

**Biological Tissue Matrix:** EPA 3050B

---

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

**EPA 522.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1** Hg.

**SM2340B**

---

For a complete listing of analytes and methods, please contact your Alpha Project Manager.





**PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT**

**FOR**

**327-329 Huguenot St  
Section 2; Block 417; Lot 001  
New Rochelle, NY 10801**

**Prepared For:**

**RFMCH Huguenot Property Owner LLC, RFMCH Huguenot  
Property Owner II LLC and RFMCH Huguenot Development  
Partners II LLC  
7 Renaissance Square, 4<sup>th</sup> Floor  
White Plains, NY 10801**

**Prepared By:**

**SESI CONSULTING ENGINEERS  
12A Maple Avenue  
Pine Brook, NJ 07058**

**Project No.: 11571**

**January 2021**

# TABLE OF CONTENTS

1.0	SUMMARY.....	1
2.0	INTRODUCTION.....	2
2.1	<i>PURPOSE</i> .....	2
2.2	<i>SCOPE OF SERVICES</i> .....	2
2.3	<i>SIGNIFICANT ASSUMPTIONS</i> .....	3
2.4	<i>LIMITATIONS/METHODOLOGY/RELIANCE</i> .....	3
2.5	<i>TERMS AND CONDITIONS</i> .....	4
2.6	<i>DISCLAIMER</i> .....	4
3.0	SITE DESCRIPTION.....	5
3.1	<i>LOCATION/STRUCTURES/LEGAL DESCRIPTION</i> .....	5
3.2	<i>SITE &amp; VICINITY CHARACTERISTICS</i> .....	5
3.3	<i>CURRENT USE OF THE PROPERTY</i> .....	5
3.4	<i>DESCRIPTION OF STRUCTURES, ROADS, AND SITE IMPROVEMENTS</i> .....	5
3.5	<i>ENVIRONMENTAL PERMITS</i> .....	5
3.6	<i>CURRENT USES OF ADJOINING PROPERTIES</i> .....	6
4.0	USER PROVIDED INFORMATION.....	7
4.1	<i>TITLE INFORMATION</i> .....	7
4.2	<i>ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS</i> .....	7
4.3	<i>SPECIALIZED KNOWLEDGE/OTHER USER PROVIDED INFORMATION</i> .....	7
4.4	<i>COMMONLY KNOWN OR REASONABLY ASCERTAINABLE RECORDS</i> .....	7
4.5	<i>VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES</i> .....	7
4.6	<i>OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION</i> .....	8
5.0	RECORDS REVIEW.....	9
5.1	<i>STANDARD ENVIRONMENTAL RECORD SOURCES, FEDERAL CITY &amp; STATE</i> ..	9
5.1.1	<i>EDR Search</i> .....	9
5.1.2	<i>PREVIOUS ENVIRONMENTAL REPORTS</i> .....	14
5.1.3	<i>LOCAL, COUNTY, AND STATE FOIL REQUESTS</i> .....	15
5.2	<i>PHYSICAL SETTING SOURCES</i> .....	15
5.2.1	<i>Topography</i> .....	15
5.2.2	<i>Surface Waters and Wetlands</i> .....	15
5.2.3	<i>Geology and Groundwater</i> .....	15
5.3	<i>HISTORICAL USE INFORMATION FOR THE PROPERTY</i> .....	16

5.3.1	<i>Aerial Photographs</i> .....	17
5.3.2	<i>EDR City Directory Abstract</i> .....	18
5.3.3	<i>USGS Topographic Maps</i> .....	18
5.3.4	<i>Sanborn Fire Insurance Maps</i> .....	19
5.3.5	<i>Environmental Lien and AUL Search Report</i> .....	20
6.0	<b>SITE RECONNAISSANCE</b> .....	21
6.1	<b>METHODOLOGY AND LIMITING CONDITIONS</b> .....	21
6.2	<b>SITE OBSERVATIONS</b> .....	21
6.3	<b>CHEMICAL STORAGE AND USAGE</b> .....	21
6.4	<b>BULK STORAGE TANKS</b> .....	21
6.5	<b>SITE WASTE AND WASTEWATER</b> .....	21
6.6	<b>STAINED SOIL, STAINED PAVEMENT, OR STRESSED VEGETATION</b> .....	21
6.7	<b>PITS, PONDS, OR LAGOONS</b> .....	21
6.8	<b>WELLS</b> .....	22
6.9	<b>FLOOR DRAINS AND SUMPS</b> .....	22
6.10	<b>PCB</b> .....	22
6.11	<b>ASBESTOS-CONTAINING MATERIAL (ACM)</b> .....	22
6.12	<b>RADON</b> .....	22
6.13	<b>LEAD-BASED PAINT (LBP)</b> .....	22
6.14	<b>VAPOR INTRUSION</b> .....	22
6.15	<b>INTERVIEW</b> .....	22
7.0	<b>DATA GAPS</b> .....	24
8.0	<b>FINDINGS</b> .....	25
9.0	<b>OPINION</b> .....	26
10.0	<b>CONCLUSIONS AND RECOMMENDATIONS</b> .....	27
11.0	<b>DEVIATIONS</b> .....	27
12.0	<b>REFERENCES</b> .....	28
13.0	<b>SIGNATURE OF ENVIRONMENTAL PROFESSIONAL</b> .....	29
14.0	<b>APPENDICES</b> .....	30

## 1.0 SUMMARY

SESI Consulting Engineers (SESI), at the request of RFMCH Huguenot Property Owner LLC, RFMCH Huguenot Property Owner II LLC, and RFMCH Huguenot Development Partners II LLC (User), has conducted a Phase I Environmental Site Assessment (Report) for the subject property located at 327-329 Huguenot Street, New Rochelle, NY 10801 (Site), which also known as Section 2, Block 417, Lot 0001. Our services included a site reconnaissance, a state and federal records search, and an examination of available historic maps. The procedures used and conclusions of our investigation are outlined in this Phase I Report.

Based on our investigation of online databases, historic records, our site reconnaissance, and research of current and historic records for the Site and properties within close proximity of the Site, two Recognized Environmental Conditions were identified during this assessment. No HRECs, CRECs, or BERs, as defined in Section 2.1 below, were identified at the Site. The findings are summarized below:

- **REC 1 –Offsite Spill Incident:** A spill incident was reported at 316 Huguenot St (across the street from the Site) and involved a spill of gasoline on August 3, 2020. Based on the spill report, the spill was reported based on the discovery of soil contaminated with gasoline during a Phase II environmental assessment. This facility is within 0.01 miles of the Site and at a higher elevation. Therefore, based on the close proximity and upgradient location of this spill in relation to the Site, it constitutes a REC.
- **REC 2 – Previously Identified Soil Contamination:** Soil sampling completed at the Site by SESI in June 2019 and summarized in a memo in July 2019 indicated the presence of contaminated soil at the Site including PAHs, pesticides, and metals in excess of the NYSDEC unrestricted and/or restricted residential soil cleanup objectives. Based on the confirmed presence of soils with contaminant levels in excess of applicable cleanup standards, this represents a REC.

## 2.0 INTRODUCTION

### 2.1 *PURPOSE*

The purpose of this study is to determine the RECs at the Site for due diligence purposes related to the proposed refinancing of the property by the User.

SESI has developed this Phase 1 ESA Report on behalf of the User. It has been developed in substantial conformance with the ASTM's International Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E 1527-13. According to ASTM E1527-13, the property was investigated for the following conditions during this assessment:

**REC** Recognized Environmental Condition - The presence or likely presence of any hazardous substances or petroleum products in, on, or at the property: (1) due to release to the environments; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.”

**CREC** – Controlled Recognized Environmental Condition – A Recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority.”

**HREC** – Historical Recognized Environmental Condition - A past release that has been remediated to below residential standards and given regulatory closure with no use restrictions.”

**BER** – Business Environmental Risk - A risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of commercial real estate and is not an issue required to be investigated under this practice.”

### 2.2 *SCOPE OF SERVICES*

The Scope of Work and contract for services were authorized by the User on December 28, 2020.

### **2.3 SIGNIFICANT ASSUMPTIONS**

Information obtained by SESI and by third parties is assumed to be accurate and/or true. SESI makes no warranty, either implied or expressed, regarding the accuracy or validity of information supplied by others.

### **2.4 LIMITATIONS/METHODOLOGY/RELIANCE**

This report was prepared for the exclusive use of RFMCH Huguenot Property Owner LLC, RFMCH Huguenot Property Owner II LLC, and RFMCH Huguenot Development Partners II LLC. During our investigation, we have used methodologies that conform to generally accepted practices for this type of work. The scope and character of our environmental assessment were, in our professional judgment, sufficient to justify the stated conclusions, after giving due consideration to the purpose of the investigation, the data reviewed, the background history of the Site as found in historical records, and visual observation of the Site. No other investigation was performed other than that which is expressly noted in this Report.

This Phase I ESA was performed in accordance with ASTM E1527-13 and is subject to reasonable limits of time and cost and is intended to reduce but not eliminate uncertainty regarding the potential for RECs in connection with a property. Sampling and laboratory analysis are required to determine if soil, surface water, groundwater, air, and construction materials have been impacted by a contaminant.

The information presented in this Phase I ESA Report was obtained during the site reconnaissance and from the Client, representatives of the Client, current/former property owner(s) or tenants, Federal, State, County and Local Officials, and available mapped information obtained by SESI. SESI does not certify the accuracy of the information received from outside sources.

This Report should be used in its entirety. Use of portions of this Report may nullify the information and/or conclusions of this Report. Site observations discussed herein apply to the Site conditions as observed during Site reconnaissance only. The conclusions of this Report do not apply to conditions that were unavailable for inspection and could not be evaluated.



SESI does not certify that the Site is contaminant free and this Report does not serve as a warranty. SESI's investigation was performed within the time frame requested by the client.

This Phase I ESA Report did not include sampling and analyses of soil, surface water, groundwater, air, or construction materials unless expressed otherwise and requested by the client. Formal wetland, asbestos, mold, and/or radon evaluations were not performed and are not within the scope of work for a Phase I ESA. If additional services including UST testing, construction materials testing, or environmental sampling (soil, surface water, groundwater, air) is recommended, the results and conclusions for these tests will be provided under separate cover.

## **2.5 TERMS AND CONDITIONS**

The terms and conditions governing the services provided in preparing this report are detailed in the Agreement referenced in Section 2.2.

## **2.6 DISCLAIMER**

This Report was prepared by SESI for the sole and exclusive use of RFMCH Huguenot Property Owner LLC. Nothing under the Agreement between SESI and the User shall be construed to give any rights or benefits to anyone other than the User and SESI, and all duties and responsibilities undertaken pursuant to the Agreement will be for the sole and exclusive benefit of the User and SESI and not for the benefit of any other party. SESI does not intend, without its written consent, for this Report to be disseminated to anyone other than the User, or to be used or relied upon by anyone other than the User. Use of the Report by any other person is unauthorized and such use is at their sole risk.

### **3.0 SITE DESCRIPTION**

#### **3.1 LOCATION/STRUCTURES/LEGAL DESCRIPTION**

The Site consists of one parcel totaling approximately 14,445-square feet (0.35-acres) located at 327-329 Huguenot Street, New Rochelle, New York 10801 (hereinafter referred to as “the Site”). The Site consists of an asphalt-paved parking lot with no permanent structures. The Site is bounded to the east by Huguenot Street, to the south by Centre Avenue, to the west by a supermarket, and to the north by a church. The Site is identified on tax map records as Section 2, Block 417, Lot 0001.

Site figures are included in **Appendix A**.

#### **3.2 SITE & VICINITY CHARACTERISTICS**

The Site is located in a commercial area. The closest notable surface water body is the Long Island Sound located approximately 5,000 feet east of the Site. The entire Site is covered with asphalt.

#### **3.3 CURRENT USE OF THE PROPERTY**

The Site is currently occupied by a parking lot.

#### **3.4 DESCRIPTION OF STRUCTURES, ROADS, AND SITE IMPROVEMENTS**

The Site consists of one rectangular lot and measures approximately 0.35-acres in plan area. The Site is improved with an asphalt-paved parking lot and currently has no permanent structures or improvements. The site is currently used for storage of construction materials, parking, and also contains two temporary office trailers.

#### **3.5 ENVIRONMENTAL PERMITS**

Review of the EDR Radius Map Report for the Site indicates no environmental permits attributed to the Site. EDR Reports are provided in **Appendix B**.

**3.6 CURRENT USES OF ADJOINING PROPERTIES**

<b>Direction</b>	<b>Adjacent Property</b>
North	Trinity Saint Paul's Episcopal Church
East	Huguenot Street, residential and commercial properties beyond
South	Centre Avenue, residential and commercial properties beyond
West	Rancho Grande supermarket

## **4.0 USER PROVIDED INFORMATION**

### **4.1 TITLE INFORMATION**

Based on information provided by the User and the most recent property deed provided by EDR, the Site is currently owned by RFMCH Huguenot Property Owner LLC, and was formerly owned by the City of New Rochelle.

EDR Reports are provided in **Appendix B**.

### **4.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS**

SESI did not find any information regarding environmental liens or activity and use limitations.

### **4.3 SPECIALIZED KNOWLEDGE/OTHER USER PROVIDED INFORMATION**

SESI was not provided with any specialized knowledge regarding the subject Site. Other user provided information is discussed in Section 6.15.

### **4.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE RECORDS**

SESI completed a review of publicly available NYSDEC database systems and the United States Environmental Protection Agency (USEPA) database system as part of this report to determine the environmental conditions at the Site and adjacent properties. A search of USEPA's Facility Registry Database identified no records pertaining to the Site. A Freedom of Information Law (FOIL) request was submitted to the NYSDEC on December 30, 2020, which is discussed in greater detail in Section 5.1.3.

### **4.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES**

The Report User indicated no knowledge of any valuation reduction related to environmental concerns.

#### **4.6 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION**

The Site is currently owned by RFMCH Huguenot Property Owner LLC. The site consists of an asphalt-paved parking lot.

## 5.0 RECORDS REVIEW

### 5.1 STANDARD ENVIRONMENTAL RECORD SOURCES, FEDERAL CITY AND STATE

#### 5.1.1 EDR Search

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR) and reported in the EDR Radius Map Report with GeoCheck. The report meets the government records search requirements of ASTM Standard of Practice for Environmental Site Assessments, E-1527-13. Search distances are per ASTM standards. A Radius Map Check was performed by EDR and are provided in **Appendix B**. The results of all properties in the search area with environmental records are listed below:

Environmental Listing	Subject Site	0 - 1/8 Miles	1/8 - 1/4 Miles	1/4 - 1/2 Miles	1/2 - 1 Miles
CORRACTS	0	0	1	0	NR
RCRA-LQG	0	3	1	NR	NR
RCRA-VSQG	0	1	3	NR	NR
NY-SHWS	0	1	1	0	1
NY-SWF/LF	0	0	0	2	NR
NY LTANKS	0	13	37	104	NR
NY UST	0	16	15	NR	NR
NY CBS	0	1	0	NR	NR
NY AST	0	6	10	NR	NR
NY CBS AST	0	1	0	NR	NR
NY BROWNFIELDS	0	2	2	6	NR
NY SPILLS	0	26	NR	NR	NR
RCRA NonGen / NLR	0	21	28	NR	NR
NY DRYCLEANERS	0	2	4	NR	NR
NY MANIFEST	0	32	34	NR	NR
RI MANIFEST	0	0	1	NR	NR
NJ MANIFEST	0	6	7	NR	NR
EDR MGP	0	0	0	0	1
EDR HIST AUTO	0	2	NR	NR	NR
EDR HIST CLEANER	0	4	NR	NR	NR

NR – Not Requested at this search distance

The EDR Radius Map Report identified no operations of note at the *Site*.

The EDR Radius Map Report identified the following listings for the *surrounding properties*:

RCRA Corrective Action Sites (CORRACTS):

The CORRACTS list identifies Resource Conservation and Recovery Action (RCRA) facilities that incurred corrective action activity associated with their operation. According to the SEMS list provided by EDR, there is one (1) CORRACTS facility (Rush Manufacturing Corp) within one mile of the Site.

Resource Conservation and Recovery Act – Large Quantity Generators (RCRA-LQG):

The RCRA-LQG includes a list of facilities that generate over 1,000 kilograms of hazardous waste, or over 1 kilogram of acutely hazardous waste per month. According to the RCRA-LQG list provided by EDR, there are four (4) RCRA-LQG facilities within approximately 0.125 miles of the Site. However, a review of the facilities identified that two facilities are at a lower elevation than the Site. Therefore, based on the elevation of the Site to the facility sources and groundwater/surface water flow direction, these facilities are not expected to adversely impact the site. Based on a review of available information, no documented releases or violations were identified associated with all the facilities. These facilities are not expected to adversely impact the site.

Resource Conservation and Recovery Act – Very Small Quantity Generators (RCRA-VSQG):

The RCRA-VSQG includes a list of facilities that generate less than 100 kilograms of hazardous waste, or less than 1 kilogram of acutely hazardous waste per month. Review of the RCRA-VSQG list provided by EDR identified four (4) RCRA-VSQG sites within 0.25 miles of the Site. No violations were identified associated with this listing. Due to the minimal quantities of hazardous waste generated, this facility is not expected to adversely impact the Site.

NY State Hazardous Waste Sites (NJ SHWS):

NY SHWS is a list of known contaminated facilities in New York. Three (3) SHWS facilities were located within 1 mile of the Site. Echo Avenue is located approximately 0.5 miles northeast of the site. Based on the distance relative to the subject Site, this facility does not constitute a REC. Based on the elevation of the Site to the two other facilities sources and groundwater/surface water flow direction, these facilities are not expected to adversely impact the site.

(NY-SWF/LF)

The SWF/LF provides a list of facilities that operate solid waste disposal facilities. These facilities may be active or inactive, or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal facilities. A review of the SWF/LF list provided by EDR identified two (2) facilities within approximately 0.5 miles of the subject Site. Both facilities are located approximately 0.4 miles from the subject Site and is not expected to have adversely impacted the Site.

NY Leaking Storage Tanks (NY LTANKS):

The NY LTANKS database contains an inventory of reported leaking underground and aboveground storage tanks. According to the NY LTANKS list provided by the EDR, there are one hundred fifty-four (154) tanks located within 0.125 miles of the Site. All tanks within close proximity to the Site and upgradient of the Site have completed cleanup and require no further action. Therefore, these tanks do not constitute a REC.

NY Underground Storage Tanks (NY UST):

The NY UST database contains registered USTs maintained by the associated facilities. USTs are regulated under Subtitle I of the RCRA. Thirty-one (31) NY UST facilities are located within approximately 0.25 miles of the subject Site. Documented evidence of UST failure at these facilities has not been identified. Therefore, these facilities do not constitute a REC.

NY Chemical Bulk Storage (NY CBS/NY CBS AST):

The NY CBS database contains registered chemical bulk storage facilities. The NY CBS list provided by the EDR identifies one facility (Industrial Overall Service Corp.) located approximately 0.05 miles of the Site. This facility status is closed. Therefore, the CBS is not expected to have adversely impacted the Site.

NY Above Ground Storage Tank Sites (NY AST/NY Tanks):

The NY AST/NY Tanks database contains registered ASTs and/or USTs maintained by the associated facilities. Sixteen (16) facilities were identified within approximately 0.25 miles of the



subject Site. Documented evidence of AST failure at these facilities has not been identified. Therefore, these facilities do not constitute a REC.

#### NY BROWNFIELDS

NY BROWNFIELDS are facilities that are identified as former or current commercial or industrial use facilities that are presently vacant or underutilized, on which there is suspected to have been a discharge of contamination to the soil or groundwater at concentrations greater than applicable cleanup criteria. A review of NY BROWNFIELD list provided by EDR has revealed that there are four (4) NY BROWNFIELD facilities within approximately 0.5 miles of the subject. Based on our review of available information and mapping for these facilities, the following was concluded: groundwater contamination from these facilities does not extend to the Site, groundwater flow is anticipated to be away from the Site due to elevation, and soil contamination does not extend to the subject Site. Therefore, none of the brownfield facilities are expected to have adversely impacted the Site.

#### NY SPILLS:

NY Spills are facilities that have documented releases/spills associated with either petroleum bulk storage or chemical bulk storage at their facilities. According to the NY Spills list provided by EDR, there are twenty-six (26) NY Spill sites within 0.5 miles of the subject Site. The facilities listed in the NY Spill database include documented spills as of April 1, 1986, as well as spills occurring since this date. Every spill facility listed in the NY Spills database has been closed except for one incident which occurred at 316 Huguenot St (across the street from the Site) and involved a spill of gasoline on August 3, 2020. Based on the spill report, the spill was reported based on the discovery of soil contaminated with gasoline during a Phase II environmental assessment. This facility is within 0.01 miles of the Site and at a higher elevation. Therefore, based on the close proximity and upgradient location of this spill in relation to the Site, it constitutes a REC. 316 Huguenot St has been assigned **REC-1**.

#### RCRA Non-Generators / No Longer Regulated (RCRA NonGen / NLR):

Resource Conservation and Recovery Act Non-Generators (RCRA NonGen) database searches USEPA's comprehensive information system, providing access to data supporting the RCRA of

1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information of facilities, which generate, transport, store, treat and/ or dispose of hazardous waste as described by RCRA. Non-Generators do not presently generate hazardous waste. A review of RCRA NonGen / NLR list provided by EDR revealed that there are forty-nine (49) RCRA NonGen facilities within 0.25 miles of the subject Site. None of these facilities currently generate hazardous waste, and no documented discharges were identified. Accordingly, they are not expected to adversely impact the Site.

NY DRYCLEANERS Sites:

NY DRYCLEANERS database provides a listing of active dry cleaner facilities. A review of NJ DRYCLEANERS list provided by EDR revealed six (6) facility within approximately 0.25 miles of the subject Site. Based on a review of available information, no documented releases were identified associated with this facility. Accordingly, this listing is not expected to adversely impact the Site.

MANIFEST Sites:

MANIFEST Facilities include a list of facilities that have generated hazardous waste or contaminants. A review of the NJ, RI and NY MANIFEST lists, as provided by EDR, has revealed that there are sixty-six (66) NJ MANIFEST, PA MANIFEST, and/or NY MANIFEST facilities within approximately 0.25 miles of the subject Site. Based on a review of the available database information, no violations were identified. Accordingly, these facilities are not expected to have adversely impacted the Site.

EDR Manufactured Gas Plant (MGP) Sites:

The MGP list provides an inventory of facilities that formerly operated coal gas plants. A review of the EDR MGP database, as provided by EDR has revealed that there is one (1) MGP facility within approximately 1 mile of the subject Site. This facility is located north of the Site and is situated either downgradient or side gradient from the subject Site. As a result, this facility does not constitute a REC.

EDR Hist Auto Sites:

The EDR Hist Auto list provides an inventory of facilities that formerly operated automotive repair or automotive gas stations. A review of the EDR Hist Auto database, as provided by EDR has revealed that there are two (2) Hist Auto facilities within approximately 0.125 miles of the subject Site. A review available database information did not identify known contamination of soil and/or groundwater migrating from these facilities. Therefore, these facilities do not constitute RECs.

EDR Hist Cleaner Sites:

The EDR Hist Cleaner list provides an inventory of facilities that formerly/historically operated a dry-cleaning business. A review of the EDR Hist Cleaner database, as provided by EDR has revealed that there are four (4) Hist Cleaner facilities within approximately 0.125 miles of the subject Site. These facilities have no documented discharges or violations were identified. Accordingly, these facilities do not constitute RECs.

**5.1.2 PREVIOUS ENVIRONMENTAL REPORTS**

A memorandum was prepared by SESI in July 2019 summarizing environmental soil sampling which SESI performed at the Site and at 339 Huguenot Street/33 Centre Avenue, the south-adjointing property, in June 2019. The memorandum is included in Appendix D. The portion of the memorandum pertaining to the Site is summarized as follows:

- Five soil samples were collected across the Site ranging in depth from 3.5 to 7 feet below grade. Samples were analyzed for VOCs, SVOCs, PCBs, pesticides, and metals.
- Soil sample SB-11 Grab (5.5) showed PAHs, pesticides, lead and nickel above the NYSDEC unrestricted use soil cleanup objectives (USCOs). Sample SB-12 Grab (6) contained the pesticide 4,4'-DDT and lead above the USCO. Sample SB-13 (7) contained lead above the USCO. The pesticides 4,4'-DDE and 4,4'-DDT were detected in sample SB-16 Grab (7) above the USCO. Sample SB-15 (3.5) contained pesticides and mercury above the USCOs, and barium and lead above the NYSDEC restricted residential soil cleanup objectives (RRSCOs).

Based on the soil sampling results summarized in the memorandum, soil contamination is confirmed to be present at the Site in excess of NYSDEC USCOs and RRSCOs. This represents a recognized environmental condition in connection with the Site and has been assigned **REC-2**.

### **5.1.3 LOCAL, COUNTY, AND STATE FOIL REQUESTS**

On December 30, 2020, SESI filed FOIL information requests with the NYSDEC, Westchester County, and the city of New Rochelle requesting information regarding any potential incidents, spills, hazardous material storage/use and UST decommissioning records. The FOIL information request was received in electronic format and is included in **Appendix C**. On January 6, 2021, a response from the City of New Rochelle indicated that no records pertaining to the property are available. No additional FOIL responses have been received to date.

## **5.2 PHYSICAL SETTING SOURCES**

Sources used to evaluate the physical setting of the property include:

- USGS Topographic Maps,
- Aerial Photographs, and
- Site Reconnaissance

### **5.2.1 Topography**

The Site possesses geographical topography that slopes gently to the north. According to the United States Geological Survey (USGS) Mount Vernon, 2013, 7.5-minute Series topographic map, the Site's topographic elevation is approximately 96 feet above mean sea level (msl). The EDR Topographic Map Report is attached to this report as **Appendix B**.

### **5.2.2 Surface Waters and Wetlands**

The closest open surface water to the Site is the Long Island Sound located approximately 5,000-feet east of the Site.

### **5.2.3 Geology and Groundwater**

As per the USDA National Cooperative Soil Survey (NCSS) map for the area, the soils at the Site are characterized as "Urban Land". The depth of the groundwater at the Site is not specifically

reported, but the groundwater flow direction is expected to be to the south-southwest based on SESI's investigation of the neighboring property to the south (339 Huguenot Street) and on reports reviewed for the nearby Industrial Overall Services property.

### **5.3 HISTORICAL USE INFORMATION FOR THE PROPERTY**

Sources used to determine the historical use of the property include:

- Aerial Photographs,
- EDR City Directory Abstract,
- USGS Topographic Maps,
- Sanborn Fire Insurance Maps, and
- Environmental Lien and AUL Search Report.

EDR Reports are attached to this report as **Appendix B**.

**5.3.1 Aerial Photographs**

Following is a review summary of thirteen (13) aerial photographs from the EDR Aerial Photo Decade Package, dated 1946, 1951, 1954, 1962, 1966, 1974, 1980, 1985, 1994, 2006, 2009, 2013, and 2017:

Year	Image Quality	Observations
1946	Quality of photograph is poor	<b>Site:</b> The Site appears to be occupied by an apartment building.
		<b>Adjacent Parcels:</b> The Site appears to be surrounded by commercial structures.
1951	Quality of photograph is good	<b>Site:</b> No significant changes observed.
		<b>Adjacent Parcels:</b> No significant changes observed.
1954	Quality of photograph is good	<b>Site:</b> No significant changes observed.
		<b>Adjacent Parcels:</b> No significant changes observed.
1962	Quality of photograph is good	<b>Site:</b> No significant changes observed.
		<b>Adjacent Parcels:</b> No significant changes observed.
1966	Quality of photograph is good	<b>Site:</b> No significant changes observed.
		<b>Adjacent Parcels:</b> No significant changes observed.
1974	Quality of photograph is good	<b>Site:</b> No significant changes observed.
		<b>Adjacent Parcels:</b> No significant changes observed.
1980	Quality of photograph is good	<b>Site:</b> No significant changes observed.
		<b>Adjacent Parcels:</b> No significant changes observed.
1985	Quality of photograph is good and in color	<b>Site:</b> No significant changes observed.
		<b>Adjacent Parcels:</b> No significant changes observed.
1994	Quality of photograph is good and in color	<b>Site:</b> The Site structure appears to have been demolished and replaced with a parking lot
		<b>Adjacent Parcels:</b> No significant changes observed.
2006	Quality of photograph is good and in color	<b>Site:</b> The Site appears to be a parking lot.
		<b>Adjacent Parcels:</b> No significant changes observed.
Year	Image Quality	Observations
2009	Quality of photograph is good and in color	<b>Site:</b> No significant changes observed.
		<b>Adjacent Parcels:</b> No significant changes observed.
2013	Quality of photograph is good and in color	<b>Site:</b> No significant changes observed.
		<b>Adjacent Parcels:</b> No significant changes observed.
2017	Quality of photograph is good and in color	<b>Site:</b> No significant changes observed.
		<b>Adjacent Parcels:</b> No significant changes observed.

### 5.3.2 EDR City Directory Abstract

SESI obtained historical city directory data from EDR for the Site. SESI reviewed the City Directory listings for the years 1972, 1977, 1982, 1987, 1992, 1995, 2000, 2005, 2010, 2014, 2017.

Apparent residential listings are associated with the subject property (listed as 327 Huguenot Street) between 1972 and 1987. No listings were identified after 1987.

No other facilities of concern appeared to have operated in the vicinity of the Site.

### 5.3.3 USGS Topographic Maps

Following is a summary of the EDR review of Topographic Map Reports:

Source	Year	Minute	Scale
Harlem	1897	15	62500
Harlem	1898	15	62500
Harlem	1900	15	62500
Mt Vernon	1947	7.5	24000
Mount Vernon	1956	7.5	24000
Mount Vernon	1966	7.5	24000
Mount Vernon	1979	7.5	24000
Mount Vernon	1995	7.5	24000
Mount Vernon	2013	7.5	24000

The topographic maps depict the Site elevation at approximately 96-feet above msl and regional topography that slopes gently to the southwest. Wetlands were not distinctly noted on the maps within the Site or in the vicinity of the Site. The 1947 map depicts a building on the Site, and the maps from 1956 to 1995 show the site area shaded in pink, indicating general urban development of the area but do not depict specific buildings.

**5.3.4 Sanborn Fire Insurance Maps**

Following is a review summary of sixteen (16) aerial photographs from the EDR Sanborn Fire Insurance Maps Package, dated 1887, 1892, 1896, 1903, 1911, 1931, 1942, 1951, 1990, 1991, 1992, 1993, 1994, 1995, 1996, and 2003.

Year	Map Quality	Observations
1887	Fair	Site: No Coverage
		Adjacent Properties: Residential and commercial properties surround the site
1892	Fair	Site: No Coverage
		Adjacent Properties: More residential and commercial properties have been developed surrounding the site
1896	Good	Site: No Coverage
		Adjacent Properties: No discernable changes.
1903	Good	Site: No Coverage
		Adjacent Properties: More residential and commercial properties have been developed surrounding the site
1911	Good	Site: D & L Apartments have appeared on Site.
		Adjacent Properties: More commercial properties have been developed surround the Site. An apartment building and garage were developed east of Site.
1931	Good	Site: No Coverage
		Adjacent Properties: More commercial and residential properties have been developed surround the Site. An apartment building and garage to the east were demolished and made into stores. To the west of Site is a Knights of Columbus Auditorium. Apartments and a garage have appeared across the street.
1942	Good	Site: No Coverage
		Adjacent Properties: No discernable changes.
1951	Good	Site: No Coverage
		Adjacent Properties: Knights of Columbus Auditorium has changed into a cartoon studio. An auto repair shop has appeared south of the street across Central Ave.
1990	Good	Site: No Coverage
		Adjacent Properties: The apartments south of the Site across Central Ave has been demolished and is now a parking lot. The cartoon studio next to the Site is now a Film Studio.
1991	Good	Site: No Coverage
		Adjacent Properties: The apartments south of the Site across Central Ave has been demolished.
1992	Good	Site: No Coverage
		Adjacent Properties: No discernable changes.
1993	Good	Site: The apartments have been demolished
		Adjacent Properties: No discernable changes.



1994	Good	Site: The apartments have been demolished
		Adjacent Properties: No discernable changes.
1995	Good	Site: The apartments have been demolished
		Adjacent Properties: No discernable changes.
1996	Good	Site: The apartments have been demolished
		Adjacent Properties: No discernable changes.
2003	Good	Site: The Site is now a parking lot
		Adjacent Properties: No discernable changes.

### **5.3.5 Environmental Lien and AUL Search Report**

Based on data provided by EDR, no environmental liens or any other activity or use limitations were found.

## **6.0 SITE RECONNAISSANCE**

### **6.1 METHODOLOGY AND LIMITING CONDITIONS**

An environmental professional from SESI visited the Site on January 7, 2021 to identify potential RECs. The Site was observed to the extent that it was accessible and not obstructed. An inspection photolog is attached to this report as **Appendix E**.

### **6.2 SITE OBSERVATIONS**

The Site is comprised of one (1) lot occupied by a parking lot. The lot is currently used for temporary storage of construction materials and office trailers associated with the construction of the residential apartment building across Centre Avenue.

### **6.3 CHEMICAL STORAGE AND USAGE**

No chemical storage was observed on-Site.

### **6.4 BULK STORAGE TANKS**

No bulk storage tanks, drums or containers were observed on-Site.

### **6.5 SITE WASTE AND WASTEWATER**

SESI observed one dumpster on the Site that appeared to contain soil. No leaks or spillage was observed to be associated with the dumpster. SESI did not observe any wastewater present at the time of the site reconnaissance.

### **6.6 STAINED SOIL, STAINED PAVEMENT, OR STRESSED VEGETATION**

No stained soil or stressed vegetation was observed on-Site.

### **6.7 PITS, PONDS, OR LAGOONS**

No pits, ponds or lagoons were observed on-Site.

## **6.8 WELLS**

Wells were not observed on the Site.

## **6.9 FLOOR DRAINS AND SUMPS**

Floor drains and sumps were not observed on the Site.

## **6.10 PCB**

No transformers or potential PCB containing equipment was observed on the Site.

## **6.11 ASBESTOS-CONTAINING MATERIAL (ACM)**

No structures are present on the Site. Additionally, no evidence of previous structure was observed. Therefore, ACM was not considered an environmental concern.

## **6.12 RADON**

Radon surveying was not included in SESI's scope of work; however, SESI notes that the Site is located in a Zone 3 Radon area. Zone 3 radon regions predict concentrations predicted average indoor radon screening levels less than 2 pCi/L.

## **6.13 LEAD-BASED PAINT (LBP)**

No structures are present on the Site. Additionally, no evidence of a previous structure was observed. Therefore, LBP was not considered an environmental concern.

## **6.14 VAPOR INTRUSION**

No evidence indicative of a vapor intrusion concern was identified during Site reconnaissance.

## **6.15 INTERVIEW**

On January 8, 2021, SESI personnel conducted an interview with Mr. Kevin McManus, a representative of the current property owner, RFMCH Huguenot Property Owner LLC, via completion of an ASTM User Questionnaire. According to Mr. McManus the property was sold to

Huguenot Partners, LLC in May of 2019 from the City of New Rochelle, and was then sold by Huguenot Partners, LLC to RFMCH Huguenot Property Owner LLC in August of 2019. The property was formerly used as a parking lot by the City. Since acquisition, the Site has remained vacant. In his responses indicated on the User Questionnaire, Mr. McManus indicated the following:

- No knowledge that the property or adjoining properties are or were used for industrial purposes or as a gasoline station, motor repair facility, printing facility, dry cleaner, photo laboratory, junkyard, landfill, or waste treatment, storage, disposal, or recycling facility
- No knowledge of current or historical chemical storage, hazardous substances, or petroleum products on the property or any storage tanks, transformers, or associated spills or leaks
- No knowledge of wastewater discharges on or adjacent to the property
- No knowledge of fill dirt brought to the property from a contaminated site
- Knowledge of fill dirt brought to the property from an unknown origin based on previously conducted environmental sampling at the Site
- No knowledge of potable wells or monitoring wells on the property
- No knowledge of environmental liens or violations associated with the property
- Knowledge of an environmental site assessment of the property indicating contamination present on the property, based on previous soil sampling conducted by SESI

## **7.0 DATA GAPS**

To date, FOIL responses have not been received from NYSDEC or Westchester County. Based on the information generated during this ESA, this data gap is not suspected to represent significant missing information. If files received from FOIL requests alter the conclusions provided herein, pertinent information will be summarized under separate cover.

## **8.0 FINDINGS**

Based on our investigation, we conclude that two recognized environmental conditions were identified at the Site. See Section 10.0 of this report.

## **9.0 OPINION**

In our professional judgement, the scope and character of our environmental assessment were sufficient to justify the stated conclusions, after giving due consideration to the purpose of the investigation, the data reviewed, the background history of the Site as found in historical records, and visual observation of the Site.

## 10.0 CONCLUSIONS AND RECOMMENDATIONS

Based on our investigation, we have identified two recognized environmental conditions in connection with the Site. No CREC, HRECs, or BERs were identified as part of this investigation.

The following RECs have been identified:

- **REC 1 –Offsite Spill Incident:** A spill incident was reported at 316 Huguenot St (across the street from the Site) and involved a spill of gasoline on August 3, 2020. Based on the spill report, the spill was reported based on the discovery of soil contaminated with gasoline during a Phase II environmental assessment. This facility is within 0.01 miles of the Site and at a higher elevation. Therefore, based on the close proximity and upgradient location of this spill in relation to the Site, it constitutes a REC.
- **REC 2 – Previously Identified Soil Contamination:** Soil sampling completed at the Site by SESI in June 2019 and summarized in a memo in July 2019 indicated the presence of contaminated soil at the Site including PAHs, pesticides, and metals in excess of the NYSDEC unrestricted and/or restricted residential soil cleanup objectives. Based on the confirmed presence of soils with contaminant levels in excess of applicable cleanup standards, this represents a REC.

A Phase II Environmental Site Assessment (ESA) including sampling of soil, groundwater, and soil vapor across the Site is recommended to investigate the above RECs.

**\*\*NOTE:** A Phase II ESA report has been prepared by SESI in January 2021 and is being submitted under separate cover. Please refer to SESI's Phase II ESA report for further information concerning sampling results.\*\*

## 11.0 DEVIATIONS

This report was prepared with no significant deviation from ASTM Standard Practice E1527-13.



## **12.0 REFERENCES**

Environmental Data Resources, Inc. – “Certified Sanborn Map Report”, Inquiry No. 6315919.3, dated December 29, 2020

Environmental Data Resources, Inc. – “EDR – Historical Topographic Map Report”, Inquiry No. 6315919.4, dated December 29, 2020

Environmental Data Resources, Inc. – “The EDR Environmental Lien and AUL Search Report”, Inquiry No. 6315919.7S, dated December 30, 2020

Environmental Data Resources, Inc. – “The EDR Aerial Photo Decade Package”, Inquiry No. 6315919.11, dated December 29, 2020

Environmental Data Resources, Inc. – “The EDR Radius Map Report with GeoCheck”, Inquiry No. 6315919.2s, dated December 29, 2020

Environmental Data Resources, Inc. – “The EDR –Certified Sanborn Map Report”, Inquiry No. 6315919.3, dated December 29, 2020

Environmental Data Resources, Inc. – “The EDR – City Directory Abstract”, Inquiry No. 6315919.5, dated December 30, 2020

Environmental Data Resources, Inc. – “The EDR – Property Tax Map”, Inquiry No. 6315919.6, dated December 30, 2020

Environmental Data Resources, Inc. – “The EDR Building Permit Report”, Inquiry No. 6315919.8, dated December 29, 2020

### 13.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

As required in 40 CFR 312.21(d), this section includes statements made by the environmental professional conducting this assessment.

“I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR Part 312.”

“I declare that I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property.”

“I have developed and performed the ‘all appropriate inquiry’ in conformance with the standards, limitations, and practices set forth in 40 CFR Part 312.”

This report incorporates the consultant's best professional judgment in conductance of this Phase One Environmental Site Assessment.

#### SESI CONSULTING ENGINEERS

---

Jesse A. Mausner, PG  
Project Manager  
January 2021

## 14.0 APPENDICES

- APPENDIX A      FIGURES
  
- APPENDIX B      ENVIRONMENTAL DATA RESOURCES, INC. REPORTS
  
- APPENDIX C      ENVIRONMENTAL RECORD SEARCH RESULTS AND  
                         INFORMATION REQUESTS
  
- APPENDIX D      PREVIOUS ENVIRONMENTAL REPORTS
  
- APPENDIX E      INSPECTION PHOTOLOG



## MEMORANDUM

---

**TO:** Kevin McManus, Cappelli Organization

**PROJECT NO.:** 10785

**FROM:** Sesi Consulting Engineers

**DATE:** July 12, 2019

**SUBJECT:** Summary of Environmental Testing, Centre Avenue Development Southern and Northern Lots

---

Between June 19, 2019 and July 1, 2019, Sesi performed a geotechnical and environmental investigation program. Sesi collected soil samples for environmental testing on the 100'x100' southern lot, currently in the BCP program, and the 100'x150' northern lot which is not in the BCP program, as part of the proposed Centre Avenue Redevelopment to be located in New Rochelle, NY. Sesi collected samples of both the fill and decomposed rock layers on each site with, a total of four composite and 10 discreet samples from the southern lot and a total of eight discreet samples from the northern lot. A summary of the environmental testing is provided below.

### Southern Lot - BCP Area

The samples collected in this lot were analyzed for TCL/TAL+30. Exceedances to the NYSDEC soil cleanup objectives (SCOs) were detected in all four of the composite samples including SB-17 Comp, SB-18 Comp, SB-19 Comp and SB-20 Comp. The pesticides 4,4'-DDD and 4,4'-DDT were detected above the unrestricted use soil cleanup objectives in the composite sample collected from boring SB-17. The metals lead and zinc were also detected above the unrestricted use SCO in SB-17. The poly-aromatic hydrocarbons (PAHs) benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene and indeno(1,2,3-cd)pyrene were detected above the unrestricted use and the restricted residential SCOs in sample SB-18 Comp. The pesticides 4,4'-DDE, 4,4'-DDD and 4,4'-DDT were detected above the unrestricted use SCO and the metals barium and lead were detected above the restricted residential SCOs in sample SB-18 Comp. Sample SB 75.1-19 Comp showed 4,4'-DDT, barium, lead and zinc were detected above the unrestricted use SCOs. Copper, nickel and zinc were detected in sample SB-20 Comp above the unrestricted use SCOs.

Exceedances to the restricted residential SCOs detected in the weathered bedrock include sample B8E1 8FT (nickel and mercury). Exceedances to the unrestricted SCOs in the weathered bedrock include sample B7E1 9FT (nickel), sample B9E1 9ft (copper and nickel) and sample B8E1 8ft (copper).

Based on the results of the soil samples collected from the BCP area, the highest soil contamination levels were in the area of SB-18 with PAHs and metals detected above the restricted residential SCOs. Pesticides and other metals were above the unrestricted SCOs, but below the restricted residential SCOs in the remaining samples. It is unlikely that any of the soil samples are RCRA hazardous because of the relatively low concentrations of contaminants.

These results are similar to the results of the soil samples collected in December 2017 in the BCP area with the exceedances to the unrestricted and restricted residential SCOs, consisting of metals and PAHs. The results of soil samples collected from the northwest portion of the BCP site in December 2017 were also similar to the most recent results with the exception of the VOCs trichloroethene (TCE) detected above the unrestricted and 1,4-dioxane detected above the restricted residential.

Based on the results above exceedances were found in 3 of the 4 samples obtained in the decomposed rock. We believe that the decomposed rock will likely be eligible for the BCP program.

### **Northern Lot - Non-BCP Area**

Grab soil samples SB-11 Grab (5.5), SB-12 Grab (6), SB-13 Grab (7), SB-15 Grab (3.5) and SB-16 Grab (7) were collected in the 100'x 150' area which is not currently in the BCP area. Soil sample SB-11 Grab (5.5) showed PAHs, pesticides, lead and nickel above the unrestricted use SCOs but not the restricted residential SCOs. Sample SB-12 Grab (6) contained 4,4'-DDT and lead above the unrestricted use SCO. Sample SB-13 (7) contained lead above the unrestricted SCO only. Sample SB-15 (3.5) contained pesticides and mercury above the unrestricted use SCOs, but not the restricted residential SCO and barium and lead above the restricted residential SCOs. The pesticides 4,4'-DDE and 4,4'-DDT were detected in sample SB-16 Grab (7) above the unrestricted SCO only. Volatile organic compounds were not detected above any of the SCOs.

Exceedances to the unrestricted SCOs in the weathered bedrock were detected in sample B-5A,S1,12' (copper), B-2,S4,11' (nickel) and B-3,S-4,11' (nickel).

Based on the results of the soil samples collected from area not in the BCP, barium and lead are present in the soil above the restricted residential SCO. The other exceedances detected were all above the unrestricted use SCOs. It is unlikely that any of the soil samples are RCRA hazardous because of the relatively low concentrations of contaminants.

Based on the results of the environmental laboratory testing program for the Northern Lot, SESI would recommend additional testing in order to gather additional data to determine if this site will be BCP eligible.

### **Drum Samples**

The results of the TCLP metals and RCRA characteristics analysis for the drum samples W Lot Comp and E Lot Comp indicated that these samples were not hazardous.

**APPENDIX C**  
**EMERGING CONTAMINANT SAMPLING PLAN**

**New Rochelle Block 417 Site  
327-329 Huguenot Street  
NEW ROCHELLE, NEW YORK**

---

**SOIL AND GROUNDWATER SAMPLING  
PLAN FOR  
EMERGING CONTAMINANTS**

**Prepared for:**

**RFMCH Huguenot Property Owner II LLC and RFMCH Huguenot Development  
Partners II LLC  
7 Renaissance Square, 4th Floor  
White Plains, NY, 10601**

**Prepared by:  
SESI CONSULTING ENGINEERS, D.P.C.  
12A Maple Avenue  
Pine Brook, NJ 07058**

---

**FEBRUARY 2021**

## **1.0 PROJECT DESCRIPTION**

This document presents the soil and groundwater emergent contaminant sampling plan for the Remedial Investigation Work Plan (RIWP) to be conducted at the property known as New Rochelle Block 417 Site (“Site”), located at 327-329 Huguenot Street, New Rochelle, Westchester County, New York. The Site is identified on tax map records as Section 2, Block 417, Lot 0001. The Site acreage totals approximately 14,445 square feet (0.35-acres) which has been historically utilized for commercial purposes. Figure 1 of the RIWP presents a Site Location Map.

The Site currently consists an asphalt-paved parking lot located in an urban setting characterized as mixed-use commercial and residential district, containing residential and commercial use properties and is bound to the north by Trinity Saint Paul’s Episcopal Church, to the east by Huguenot Street, followed by residential and commercial properties, to the south by Centre Avenue, followed by a residential apartment building (currently under construction), and to the west by Rancho Grande Supermarket. Figure 2.1 of the RIWP presents a Site Plan.

## **2.0 SOIL SAMPLING PLAN**

The sampling will be performed in accordance with the NYSDEC Guidelines for Sampling and Analysis of PFAS Under NYSDEC’s Part 375 Remedial Programs, dated January 2020. The soil samples will be sent via chain of custody to an ELAP-certified laboratory and analyzed for TCL/TAL+30, 1,4-dioxane and the PFAS compounds listed in Table 1. The soil samples will be analyzed for PFAS using Modified USEPA Method 537. Reporting limits for each PFAS compound will not exceed 1 microgram per kilogram (ug/kg). NYSDEC will be informed if detection limits on certain PFAS compounds cannot be met by the laboratory. Category B deliverables and an electronic data deliverable will be completed. A DUSR will be prepared by a data validator for all the analyses including PFAS and 1,4-dioxane. The method detection limit (MDL) for 1,4-dioxane will be no higher than 0.1 mg/kg (ppm).

Because PFAS compounds must be analyzed at concentrations in the ug/kg range, precautions must be taken to prevent cross-contamination during sampling events. Field sampling equipment that is used at multiple sites or sampling locations could become highly contaminated with PFAS. Soil sampling at this site will involve the use of non-dedicated equipment, such as a Geoprobe direct push drill rig, which could be a source of cross-contamination. Decontamination procedures outlined in this document will be followed to avoid cross contamination and equipment will be verified as PFAS-



free. Special care and consideration will be given to the field sampling equipment when stored and handled outside the site boundaries or between different sample locations.

Items that may be directly in contact with the soil, including spoons, bowls, and direct push equipment, including any split spoon or sampling barrels, have a high likelihood of cross-contamination occurring if the proper decontamination procedures are not followed. These items should be known to be PFAS free. Item that will not directly contact the soil, including field books, Post-It® Notes, aluminum foil, recycled paper towels, binders, or spiral hard cover, can be a source of PFAS contamination. Every effort will be made to ensure these items are PFAS-free.

For the sampling equipment, the following items, materials, and procedures will be used for decontamination:

- Municipal drinking water may be used for decontamination if it is known to be PFAS-free. Commercially available deionized water in an HDPE container may also be used for decontamination.
- Standard two step decontamination using Alconox® detergent and PFAS-free triple water rinse will be performed for the sampling equipment.
- Sampling equipment may be scrubbed with polyethylene or a polyvinyl chloride (PVC) brush to remove particulates.
- The sampling equipment components will not come in contact with material that may potentially contain PFAS such as aluminum foil, low density polyethylene (LDPE), polytetrafluoroethylene (PTFE, Teflon®) or other fluoropolymers.
- Soil sampling equipment will be decontaminated between each sampling point and at the conclusion of the workday. This is to ensure sampling equipment is decontaminated ahead of time for the next sampling event.

Equipment rinsate blanks will be collected daily for the equipment that comes in contact with the soil samples and is decontaminated and reused. If all the sampling materials are disposable, no field blanks will be collected. Field duplicates will be collected on a frequency of 1/20 samples. One matrix spike and matrix spike duplicate (MS/MSD) will also be collected on a frequency of 1/20 samples. A trip blank will accompany each laboratory shipment which includes analysis for volatile organic compounds.

### **3.0 GROUNDWATER SAMPLING PLAN**

The sampling will be performed in accordance with the NYSDEC Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs, dated January 2020, the NYSDEC July 2018 letter on Groundwater Sampling for Emerging Contaminants, and the PFAS Groundwater Samples from Monitoring Well Sample Protocols Revision 1.2 August 9, 2019. The groundwater samples will be sent via chain of custody in a cooler at 4 degrees C to an ELAP-certified laboratory and analyzed for TCL/TAL+30, 1,4-dioxane and the PFAS compounds listed in Table 1. The groundwater samples will be analyzed for PFAS using Modified USEPA Method 537. Reporting limits for PFOA and PFOS will not exceed 2 nanogram per liter (ng/L). Category B deliverables and an electronic data deliverable will be completed. A DUSR will be prepared by a data validator for all the analyses including PFAS and 1,4-dioxane. The method detection limit (MDL) for 1,4-dioxane will be no higher than 0.28 µg/l (ppb). In order to get the appropriate detection limit, the lab will run EPA method 8270 in "selective ion monitoring" (SIM) mode for 1,4-dioxane.

PFAS are very persistent in the environment and in the human body. There is evidence that exposure to PFAS can lead to adverse human health effects. EPA established the health advisory levels for PFAS in drinking water at 70 parts per trillion. Due to their presence in a variety of products, persistence in the environment and very low drinking water standards, care must be used when groundwater sampling for PFAS to avoid cross contamination from the sampling equipment and personal protective equipment (PPE).

### **4.0 SOIL SAMPLE COLLECTION AND HANDLING**

The following considerations will be observed:

- No fabric softener will be used on clothing to be worn by the sampling personnel in the field. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS-containing materials will be avoided.
- Cosmetics, moisturizers, hand cream, unauthorized sunscreen, insect repellent or other related products will not be used by the sampling staff on sampling days.
- Food and drink packaging materials such as pre-wrapped food or snacks (i.e. candy bars, microwave popcorn, etc.) will not be used in the sampling and staging areas.
- Sampling will be conducted with powderless nitrile gloves. The gloves will be changed frequently any time there is an opportunity for cross-contamination during sampling, including, but not limited to:
  - a. Immediately prior to sample collection

- b. Each time sampling equipment is placed in and then removed from soil at a new location
  - c. Handling of any sample, including quality assurance/quality control (QA/QC) samples
  - d. After the handling of any non-dedicated sampling equipment
  - e. After contact with non-decontaminated surfaces
  - f. After decontamination of sampling equipment
  - g. When judged necessary by field personnel
- HDPE or polypropylene sample bottles with Teflon®-free caps, provided by the laboratory will be used. Sample containers will not come in contact with material that may potentially contain PFAS.
  - Bottles will only be opened immediately prior to sampling.
  - Dust and fibers will be kept out of sample bottles.
  - The sample caps will never be placed directly on the ground during sampling. If the sampling staff must set the sample bottle cap down during sample collection and a second member of the sampling crew (wearing a fresh pair of powderless nitrile gloves) is not available, the cap will be set on a clean surface (cotton sheeting, HDPE sheeting, triple rinsed cooler lid, etc.).
  - Regular size Sharpie® and thicker markers will be avoided. Fine and Ultra-Fine point Sharpie® markers may be used. Ballpoint pens may be used when labeling sample containers. If ballpoint pens do not write on the sample container labels, preprinted labels from the laboratory may be used.
  - Sample bottles, coolers, sample labels and a chain of custody form will be provided by the analytical laboratory.
  - PFAS samples will be collected prior to collecting non-PFAS samples.

#### **4.0 SAMPLE SHIPMENT**

In the absence of a formal USEPA guidance for PFAS sample storage, the documentation in USEPA Method 537 Rev. 1.1 will be used as a guide for thermal preservation and holding times for soil or other samples. Samples will be chilled during storage and shipment, and will not exceed 50°F (10° C) during the first 48 hours after collection.

The following procedures will be used by SESI for sample shipment:

- Regular ice will be used to cool and maintain the samples at or below 42.8°F (6°C). Chemical or blue ice may be used if it is known to be PFAS-free and the samples can be cooled and maintained at or below 42.8°F (6°C) during collection and through transit to the laboratory.
- The coolers will be periodically checked to ensure samples are well iced and at the proper temperature. Refresh with regular ice if needed. The ice may be double bagged in LDPE resealable storage bags. LDPE may be used if an equipment blank demonstrates the LDPE is PFAS-free.

- Chain of Custody and other forms will be single bagged in LDPE (e.g. Ziploc®) storage bags and taped to the inside of the cooler lid. LDPE may be used if an equipment blank demonstrates the LDPE is PFAS-free.
- The cooler(s) will be taped closed with a custody seal and picked up by TestAmerica within 24 hrs.

Table 1: PFAS compounds list\*

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	Perfluorooctanesulfonamide	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

\*Table source is NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), dated January 2021.

## **APPENDIX D**

### **QUALITY ASSURANCE PROJECT PLAN**

**New Rochelle Block 417 Site  
327-329 Huguenot Street  
NEW ROCHELLE, NEW YORK**

---

**Quality Assurance Project Plan  
(QAPP)**

**Prepared for:  
RFMCH Huguenot Property Owner II LLC and RFMCH Huguenot  
Development Partners II LLC  
7 Renaissance Square, 4th Floor  
White Plains, NY, 10601**

**Prepared by:  
SESI CONSULTING ENGINEERS, D.P.C.  
12A Maple Avenue  
Pine Brook, NJ 07058**

---

**FEBRUARY 2021**

## **1.0 PROJECT DESCRIPTION**

This document presents the Quality Assurance Project Plan (QAPP) for the Remedial Investigation Workplan (RIWP) for the property known as New Rochelle Block 417 Site (“Site”), located at 327-329 Huguenot Street, New Rochelle, Westchester County, New York. The Site is identified on tax map records as Section 2, Block 417, Lot 0001. The Site acreage totals approximately 14,445-square feet (0.35-acres) and currently consists an asphalt-paved parking lot located in an urban setting characterized as mixed-use commercial and residential district, containing residential and commercial use properties and is bound to the north by Trinity Saint Paul’s Episcopal Church, to the east by Huguenot Street, followed by residential and commercial properties, to the south by Centre Avenue, followed by a residential apartment building (currently under construction), and to the west by Rancho Grande Supermarket. Figure 1 of the RIWP presents a Site Location Map.

## **2.0 PROJECT ORGANIZATION**

The RIWP will be conducted by Soils Engineering Services, Inc. (SESI), on behalf of RFMCH Huguenot Property Owner II LLC and RFMCH Huguenot Development Partners II LLC (the “Volunteer”). The organization of SESI’s key project management and field staff, and respective areas of responsibility, is presented below.

### **2.1 Project Principal**

Fuad Dahan PhD, P.E.

Provide technical and administrative oversight and guidance throughout the project, assist in securing company resources, participate in technical review of deliverables, and attend key meetings as needed.

### **2.2 Principal Engineer**

Fuad Dahan, PhD, P.E.

Provide technical guidance and review of reports, analytical data. Will have key involvement in screening and development of remedial alternatives.

### **2.3 Project Manager**

Jesse Mausner, PG

Responsible for maintaining the day-to-day schedule for completing the fieldwork and deliverables according to BCP program requirements and client expectations.

## **2.4 Remedial Investigation Program Manager**

Jesse Mausner, PG

Responsible for coordinating and directing field efforts of SESI staff and subcontractors, and for maintaining that work is done according to QAPP specifications.

## **2.5 Field Team Leader**

Jon Stuart

Responsible for overseeing field work during the RI and IRM, including observing subcontractors, maintaining field notes, and collecting samples of various environmental media, in accordance with the NYSDEC-approved Work Plan.

## **2.6 Quality Assurance Officer**

Todd Kelly

Responsible for reviewing sampling procedures and certify that the data was collected and analyzed using the appropriate procedures.

## **3.0 QA/QC OBJECTIVES FOR MEASUREMENT OF DATA**

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 (2005) NYSDEC-ASP 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 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.

### **3.1 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.



### **3.2 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. Specific cleaning techniques are described in the Field Sampling Procedure. 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 October 2016.

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.

### **3.3 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.

### **3.4 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. 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) but not more than one per day. 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 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.

## **4.0 SAMPLING PROCEDURES**

### **4.1 Sampling Program**

The sampling program for this project will include soil, groundwater, and soil vapor. Soil samples will be collected from split spoon sampling or macrocore devices retrieved from soil borings. Groundwater samples will be collected from groundwater monitoring wells using low flow purging techniques. Soil vapor samples will be collected from vapor points screened in the vadose zone using Summa Canisters.

#### **4.1.1 Drilling/Sampling Procedures**

Soil and groundwater samples will be collected by means of a soil boring program. Soil borings shall be completed using the hollow stem auger drilling methods, direct push methods, or rotary drilling methods, whichever methods are determined to be best suited to site conditions by the SESI project manager and SESI field team leader.

Soil samples will be collected from soil borings and analyzed in accordance with the NYSDEC-approved Work Plan. Monitoring wells for groundwater sample collection will be installed in select completed soil borings. Either hollow stem auger (HSA) or direct push drilling methods may be utilized for monitoring well completion.

Samples of the encountered overburden materials shall be collected continuously during drilling so that a complete soil profile is examined and described by the SESI field geologist. The sampling method employed shall be ASTM D-1586/Split Barrel Sampling using a standard 2-foot long, 2-inch outside diameter split- spoon sampler with a 140-pound hammer, in cases where HSA methods are used. Upon retrieval of the sampling barrel, the collected sample shall be placed in glass jars and labeled, stored on site (on ice in a cooler if necessary), and transmitted to the appropriate testing laboratory or storage facility. Chain-of-custody procedures will be practiced following Section 15, EPA-600/4-82-029, Handbook for Sampling and Sample Preservation of Water and Waste Waters.

A geologist or engineer will be on site during the drilling operations to fully describe each soil sample, following the New York State Soil Description Procedure, and to retain representative portions of each sample.

The drilling contractor will be responsible for obtaining accurate and representative samples, informing the geologist of changes in drilling pressure, keeping a separate general log of soils encountered including blow counts [i.e., the number of blows from a soil sampling drive weight (140 pounds)] required to drive the split-spoon sampler in 6-inch increments, if applicable, and installing monitoring wells to levels directed by the supervising geologist following specifications further outlined in this protocol.

#### **4.1.2 Monitoring Well Completion**

Monitoring wells will be constructed of 0.010-inch slot size PVC well screen and riser casing. Other materials utilized for completion will be washed silica sand (Q-Rock No. 4 or approved equivalent) bentonite grout, Portland cement, and a protective steel locking well casing and cap with locks. The depth of the wells will be determined based on the depth to water, type of contaminant and field conditions encountered.

The monitoring well installation method for wells installed within unconsolidated sediments shall be to place the screen and riser assembly into the casing once the screen interval has been selected. At that time, a washed silica sand pack will be placed around the well screen if required to prevent screen plugging. If a sand pack is not warranted, the auger string will be pulled back to allow the native aquifer material to collapse 2 to 3 feet above the top of the screen. Bentonite pellets will then be added to the annulus between the casing and the inside auger to insure proper sealing. Cement/bentonite grout will continue to be added during the extraction of the augers until the entire aquifer thickness has been sufficiently sealed off from horizontal and/or

vertical flow above the screened interval. During placement of sand and bentonite pellets, frequent measurements will be made to check the height of the sand pack and thickness of bentonite layers by a weighted drop tape measure.

A bolt-down protective curb box will be installed, flush with the ground, or steel “stick-up” protective casing and secured by a Portland cement seal. The cement seal shall extend laterally at least 1 foot in all directions from the protective casing and shall slope gently away to drain water away from the well.

#### **4.1.3 Well Development**

All monitoring wells will be developed or cleared of all fine-grained materials and sediments that have settled in or around the well during installation so that the screen is transmitting representative portions of the groundwater. The development will be by one of two methods, pumping or bailing groundwater from the well until it yields relatively sediment-free water.

A decontaminated pump or bailer will be used and subsequently decontaminated after each use following procedures outlined in the Decontamination Protocol. Pumping or bailing will cease when the turbidity falls below 50 NTUs or until specific conductivity, pH, and temperature are stable (i.e., consecutive readings are within 10 percent with no overall upward or downward trends in measurements). Well development water will be contained in drums and properly disposed off-site.

#### **4.1.4 Decontamination**

All drilling equipment and associated tools including augers, drill rods, sampling equipment, wrenches and any other equipment or tools that have come in contact with contaminated materials will be decontaminated before any drilling on site begins, between each well, and prior to removing any equipment from the site. The preferred decontamination procedure will be to scrape the equipment from any residual soils and then rinse with water and Alconox®. Every effort will be made to minimize the generation of contaminated water, which will be drummed, to extent possible, for disposal.

### **4.2 Groundwater Sampling Program**

#### **4.2.1 Well Evacuation**

Prior to sampling a monitoring well, the static water level will be recorded. All well data will be recorded on a field sampling record. The wells will be sampled in accordance with the USEPA guidelines for the Low Flow Purging Sampling (LFPS). The purpose of LFPS is to collect groundwater samples from monitoring wells that are

representative of ambient groundwater conditions in the aquifer. The LFPS method reduces turbidity which is needed particularly when sampling for metals.

#### **4.2.2 Sampling Procedure**

The wells will be sampled using the low flow technique, when possible. A flow rate of 100 ml to 250 ml per minute is used to purge the wells. Drawdown should not exceed 0.3 feet. At the initiation of low flow purging a water level is recorded as well as field parameters. Field parameters are then monitored every five minutes during low flow purging using a flow through cell. When three consecutive measurements of pH differ by 0.1 units or less, with ORP within 10 mv or less, turbidity varies 10 percent or less, conductivity differs by 3 percent or less and dissolved oxygen by 10 percent or less, sampling may begin. Flow through cells are used so continuous real time readings are made. When the parameters stabilize the flow through cell is disconnected and sample bottles are filled directly from the tubing. If the parameters of a well do not stabilize in a timely manner, the groundwater sample will be collected after emptying three well volumes from the well being sampled.

#### **4.3 Soil Vapor Sampling**

Soil vapor sampling will be conducted in accordance with NYSDOH Guidance for Evaluating Indoor Air Intrusion in New York State (October 2006). Soil vapor samples will be collected in the vadose zone from shallow (5 feet) well points. Each vapor point will be installed in a shallow boring drilled either by hand-operated equipment (e.g. hand auger or percussion hammer drill), or by a small truck-mounted drill rig. Drilling equipment used shall be based on soil conditions, and the method that provides the most practical approach.

Each vapor point will consist of an inert sampling tube (polyethylene, stainless steel, or Teflon®) with a 6-inch screened section at the bottom through which soil vapors can be sampled. The screen slot size will be 0.0075 inches. A sampling zone will be created around the screened section by backfilling with 1 to 2 feet of porous coarse sand or glass beads, and at least three feet of bentonite will be placed above the porous sampling zone to form a seal from the surface. Native clean soil will be packed around the remaining annulus to the ground surface.

Each designated soil vapor sampling location will be purged of a minimum of three volumes using a low volume pump, and then attached to a regulator, and secured with a clamp. The regulator will then be attached to a 1-liter summa canister.

The regulator will be set to collect a soil vapor sample at a flow rate of less than 0.2 liters per minute. After the summa canister is filled, the valve will be closed.

Each canister will be listed according to a specific sample I.D. on a chain of custody form. Sample canisters will be delivered to the laboratory within 24 hours and analyzed for VOCs by method TO-15. The detection limit for VOCs will be 1 µg/m<sup>3</sup> or less.

The soil vapor sampling effort will include the use of inert helium tracer gas to verify that the soil vapor samples are not diluted by ambient air. The atmosphere around the sampling tube will be enriched with the tracer gas, and the soil vapor sample will be collected in the presence of the enriched tracer atmosphere. This will be accomplished by placing an inverted plastic pail over the sampling point and filling the pail with the tracer gas via a small tube penetrating the site of the pail. Refer to NYSDOH Guidance for Evaluating Indoor Air Intrusion in New York State (October 2006).

Weather conditions in the 48 hours prior to the test, and during the test, will be noted, including average wind speed, precipitation, temperature, and barometric pressure.

#### **4.4 Sample Preservation And Shipment**

Since all bottles will contain the necessary preservatives as shown in Table 4.1, they need only be filled. The 40 ml VOA vials must be filled brim full with no air bubbles. The other bottles should be filled to within about 1 inch from the top.

The bottles will be sent from the laboratory in coolers which will be organized on a per site basis. Following sample collection, the bottles should be placed on ice in the shipping cooler. The samples will be cooled to 4°C, but not frozen.

Final packing and shipment of coolers will be performed in accordance with guidelines outlined in the ASP.

### **5.0 SAMPLE CUSTODY**

The program for sample custody and sample transfer is in compliance with the NYSDEC-ASP, as periodically updated. If samples may be needed for legal purposes, chain-of-custody procedures, as defined by NEIC Policies and Procedures (USEPA-330/9-78-001-R, Revised June 1988) will be used. Sample chain-of-custody is initiated by the laboratory with selection and preparation of the sample containers. To reduce the chance for error, the number of personnel handling the samples should be minimized.

#### **5.1 Field Sample Custody**

A chain-of-custody record accompanies the samples from initial sample container selection and preparation at the laboratory, shipment to the field for sample containment

and preservation, and return to the laboratory. Two copies of this record follow the samples to the laboratory. The laboratory maintains one file copy and the completed original is returned to the site inspection team. Individual sample containers provided by the laboratory are used for shipping samples. The shipping containers are insulated and ice is used to maintain samples at approximately 4°C until samples are returned and in the custody of the laboratory. All sample bottles within each shipping container are individually labeled and controlled. Samples are to be shipped to the laboratory within 24-48 hours of the day of collection depending on parameter holding times.

Each sample shipping container is assigned a unique identification number by the laboratory. This number is recorded on the chain-of-custody record and is marked with indelible ink on the outside of the shipping container. The field sampler will indicate the sample designation/location number in the space provided on the appropriate chain-of-custody form for each sample collected. The shipping container is closed and a seal provided by the laboratory is affixed to the latch. This seal must be broken to open the container, and this indicates possible tampering if the seal is broken before receipt at the laboratory. The laboratory will contact the site investigation team leader and the sample will not be analyzed if tampering is apparent.

## **5.2 Laboratory Sample Custody**

The site investigation team leader or Project Quality Assurance Officer notifies the laboratory of upcoming field sampling activities and the subsequent transfer of samples to the laboratory. This notification will include information concerning the number and type of samples to be shipped as well as the anticipated date of arrival.

The laboratory sample program meets the following criteria:

- The laboratory has designated a sample custodian who is responsible for maintaining custody of the samples and for maintaining all associated records documenting that custody.
- Upon receipt of the samples, the custodian will check the original chain-of-custody documents and compare them with the labeled contents of each sample container for correctness and traceability. The sample custodian signs the chain-of-custody record and records the date and time received.
- Care is exercised to annotate any labeling or descriptive errors. In the event of discrepant documentation, the laboratory will immediately contact the site investigation team leader as part of the corrective action process. A qualitative assessment of each sample container is performed to note any anomalies, such as broken or leaking bottles. This assessment is recorded as part of the incoming chain-of-custody procedure.
- The samples are stored in a secured area at a temperature of approximately 4°C until analyses are to commence.

- A laboratory chain-of-custody record accompanies the sample or sample fraction through final analysis for control.
- A copy of the chain-of-custody form will accompany the laboratory report and will become a permanent part of the project records.

### **5.3 Final Evidence Files**

Final evidence files include all originals of laboratory reports and are maintained under documented control in a secure area.

A sample or an evidence file is under custody if:

- It is in your possession; it is in your view, after being in your possession.
- It was in your possession and you placed it in a secure area.
- It is in a designated secure area.

## **6.0 CALIBRATION PROCEDURES**

Instruments and equipment used to gather, generate or measure environmental data will be calibrated with sufficient frequency and in such a manner that accuracy and reproducibility of results are consistent with the appropriate manufacturer's specifications or project specific requirements. The procedures for instrument calibration, calibration verification, and the frequency of calibrations are described in the ASP. The calibration of instruments used for the determination of metals will be as described in the appropriate CLP standard operating procedures.

Calibration of other instruments required for measurements associated with these analyses will be in accordance with the manufacturer's recommendations and the standard operating procedures of the laboratory.

## **7.0 ANALYTICAL PROCEDURES**

Analytical procedures shall conform to the most recent revision of the NYSDEC-ASP and are summarized on Table 7.1. In the absence of USEPA or NYSDEC guidelines, appropriate procedures shall be submitted for approval by NYSDEC prior to use.

The procedures for the sample preparation and analysis for organic compounds are as specified in the NYSDEC-ASP. Analytical cleanups are mandatory where matrix interferences are noted. No sample shall be diluted any more than 1 to 5 times. The sample shall be either re-extracted, re-sonicated, re-stream distilled, etc. or be subjected to any one analytical cleanup noted in SW846 or a combination thereof. The analytical



laboratory shall expend such effort and discretion to demonstrate good laboratory practice and demonstrate an attempt to best achieve the method detection limit.

### **7.1 Volatile Organics (VOA)**

For the analysis of water samples for Target Compound List (TCL), volatile organic compounds (VOCs), no sample preparation is required. The analytical procedure for volatiles is detailed in NYSDEC-ASP (Volume I, Section D-I). A measured portion of the sample is placed in the purge and trap apparatus and the sample analysis is performed by gas chromatography/mass spectrometry for the first round. USEPA Method 8260 will be used, plus tentatively identified compounds (TICs). USEPA Methods 8010 or 8020 (gas chromatography with different detectors) will be used if subsequent rounds with lower limits of detection are warranted.

### **7.2 Semi-Volatile Organic Compounds**

The extraction and analytical procedures used for preparation of water, soil and sediment samples for the analysis of the TCL semi-volatile organic compounds are described in NYSDEC-ASP Volume I, Section D-III. USEPA Method 8270 will be used, plus tentatively identified compounds (TICs).

Instrument calibration, compound identification, and quantitation are performed as described in Section 6 of this document and in the NYSDEC-ASP.

### **7.3 Pesticide And PCB Compounds**

The sample preservation procedures for gas chromatography for pesticides and PCB's will be as described in the NYSDEC-ASP methods (Section D-IV). The analysis of standard mixes, blanks and spiked samples will be performed at the prescribed frequency with adherence to the 72-hour requirement described in the method.

### **7.4 Metals**

Water, soil and waste samples will be analyzed for the metals listed in Table 7.1. The detection limits for these metals are as specified in the NYSDEC-ASP, Section D-V. The instrument detection limits will be determined using calibration standards and procedures specified in the NYSDEC-ASP. The detection limits for individual samples may be higher due to the sample matrix. The procedures for these analyses will be as described in the NYSDEC-ASP.

The analyses for metals will be performed by atomic absorption spectroscopy (AAS) or inductively-coupled plasma emission spectroscopy (ICPES), as specified in the ASP with regard to AAS flame analysis.

### **7.5 Site Specificity Of Analyses**

Work plans prepared for remedial investigation waste sites contain recommendations for the chemical parameters to be determined for each site. Thus,

some or all of the referenced methods will apply to the analysis of samples collected at the individual waste sites. Analyses of Target Compound List (TCL) analytes will be performed on all samples.

**TABLE 4.1 – SAMPLE CONTAINERIZATION**

PARAMETER & ANALYTICAL METHOD	NO.	BOTTLE TYPE	PRESERVATIVE <sup>(1)</sup>	HOLDING TIME
<b>Aqueous Samples</b>				
SVOCs (BNAs) – USEPA 8270C	2	1-liter amber glass bottle	None	7 days (until extraction) 40 days (extracted)
Pesticides – USEPA 8081A	2	1-liter amber glass bottle	None	7 days (until extraction) 40 days (extracted)
PCBs – USEPA 8082	2	1-liter amber glass bottle	None	7 days (until extraction) 40 days (extracted)
VOCs – USEPA 8260B	2	40 mL, glass vial with septum cap	Hydrochloric Acid to pH <2	14 days
Metals <sup>(2)</sup>	1	1-liter, plastic bottle	Nitric acid to pH <2	180 days Mercury: 28 days
Cyanide – SM 4500-CN-E	1	1-liter, plastic	Sodium Hydroxide to pH >12	14 days
PFAS Compounds – USEPA Method 537 Modified	2	250 mL plastic bottle	None	
<b>Soil, Sediment, Solid Waste Samples</b>				
VOCs – USEPA 8260B	3	15-gram EnCore samplers	None	14 days
SVOCs (BNAs) – USEPA 8270C	1	4-oz. glass jar with Teflon lid	None	7 days (until extraction, 40 days extracted)
Pesticides – USEPA 8081A	1	4-oz. glass jar with Teflon lid	None	7 days (until extraction) 40 days (extracted)
PCBs – USEPA 8082	1	4-oz. glass jar with Teflon lid	None	7 days (until extraction) 40 days (extracted)
Metals <sup>(2)</sup>	1	4-oz. glass jar with Teflon lid	None	180 days Cyanide: 14 days Mercury: 28 days
PFAS Compounds – USEPA Method 537 Modified	1	8-oz. plastic	None	
<b>Soil Vapor / Indoor Air Samples</b>				
VOCs – USEPA TO-15	1	Summa Canister	None	30 days

(1) All samples will be preserved with ice during collection and shipment.

(2) From verified time of sample receipt by the analytical laboratory (within 24 to 48 hours of collection).

(3) A complete list of compounds is provided on Table 7.1.

**TABLE 4.2 – SAMPLING PROCEDURE FOR MONITORING WELLS USING VOLUME AVERAGED PURGING**

1. Initial static water level recorded with an electric contact probe accurate to the nearest 0.1 foot.
2. Sampling device and electric contact probe decontaminated.
  - a. Sampling device and probe are rinsed with pesticide-grade methanol and distilled water.
  - b. Methanol is collected into a large funnel which empties into a five- gallon container.
3. Sampling device lowered into well.
  - a. Bailer lowered by dedicated PVC or polypropylene line.
4. Sample taken.
  - a. Sample is poured slowly from the open end of the bailer with the sample bottle tilted so that aeration and turbulence are minimized.
  - b. Duplicate sample is collected when appropriate.
5. Samples are capped, labeled and placed in laboratory coolers with ice packs or bagged ice.
6. All equipment is cleaned with successive rinses of pesticide-grade methanol and distilled water.
  - a. Dedicated line is disposed of or left at well site.
7. Equipment/wash blanks are collected when non-dedicated sampling equipment is used.
8. Chain-of-custody forms are completed in triplicate.
  - a. The original and one carbon copy are put into a zip-lock bag and placed into the cooler.
9. The original will be returned following sample analysis.
  - a. A second carbon copy is kept on file.
10. Cooler is sealed with strapping tape and chain-of-custody seals to assure integrity and to prevent tampering of sample.

### **TABLE 4.3 – SAMPLING PROCEDURE FOR MONITORING WELLS USING LOW-STEES (LOW-FLOW) METHODS**

1. Initial static water level recorded with an electric contact probe accurate to the nearest 0.1 foot.
2. Sampling device is lowered into well. Slowly lower the pump, safety cable, tubing and electrical lines into the well to the depth specified for that well. Pump intake must be no less than 2 feet from the bottom of the well to prevent disturbance and resuspension of sediments which may be at the bottom of the well.
3. Measure water level again: Before starting the pump, measure the water level again with the pump in the well. Leave the water level measuring device in the well.
4. Purge Well: Start pumping the well at 200 to 500 milliliters per minute (ml/min). The water level should be monitored approximately every five minutes. Ideally, a steady flow rate should be maintained that results in a stabilized water level (drawdown of 0.3 ft or less). Pumping rates should, if needed, be reduced to the minimum capabilities of the pump to ensure stabilization of the water level. As noted above, care should be taken to maintain pump suction and to avoid entrainment of air in the tubing. Record each adjustment made to the pumping rate and the water level measured immediately after each adjustment.
5. Monitor Indicator Parameters: During purging of the well, monitor and record the field indicator parameters (turbidity, temperature, specific conductance, pH, Eh, and DO) approximately every five minutes. The well is considered stabilized and ready for sample collection when the indicator parameters have stabilized for three consecutive readings as follows (Puls and Barcelona, 1996):
  - a. 0.1 for pH
  - b. 3% for specific conductance (conductivity)
  - c. 10 mv for redox potential
  - d. 10% for DO and turbidity
6. Dissolved oxygen and turbidity usually require the longest time to achieve stabilization. The pump must not be removed from the well between purging and sampling.
7. Collect Samples: Collect samples at a flow rate between 100 and 250 ml/min and such that drawdown of the water level within the well does not exceed the maximum allowable drawdown of 0.3 ft. VOC samples must be collected first and directly into sample containers. All sample containers should be filled with minimal turbulence by allowing the ground water to flow from the tubing gently down the inside of the container.
8. Ground water samples to be analyzed for volatile organic compounds (VOCs) require pH adjustment. The appropriate EPA Program Guidance should be consulted to determine whether pH adjustment is necessary. If pH adjustment is necessary for VOC sample preservation, the amount of acid to be added to each sample vial prior to sampling should be determined, drop by drop, on a separate and

equal volume of water (e.g., 40 ml). Groundwater purged from the well prior to sampling can be used for this purpose.

9. Remove Pump and Tubing: After collection of the samples, the tubing, unless permanently installed, must be properly discarded or dedicated to the well for resampling by hanging the tubing inside the well.
10. Measure and record well depth.
11. Close and lock the well.
12. Samples are capped, labeled and placed in laboratory coolers with ice packs or bagged ice.
13. All equipment is cleaned with successive rinses of pesticide-grade methanol and distilled water.
  - a. Dedicated line is disposed of or left at well site.
14. Equipment/wash blanks are collected when non-dedicated sampling equipment is used.
15. Chain-of-custody forms are completed in triplicate.
  - a. The original and one carbon copy are put into a zip-lock bag and placed into the cooler. The original will be returned following sample analysis.
  - b. A second carbon copy is kept on file.
16. Cooler is sealed with strapping tape and chain-of-custody seals to assure integrity and to prevent tampering of sample.

**TABLE 7-1 – CONTRACT-REQUIRED QUANTITATION LEVELS AND ANALYTICAL METHODS FOR ASP INORGANICS, ASP VOLATILES, ASP SEMI-VOLATILES, ASP PESTICIDES, AND PCBS**

**Target Compound List (TCL) and Contract-Required Quantitation Limit**


<b>SECTION 1 - ASP INORGANICS Method: NYSDEC-ASP-91-4</b>					
<b>PARAMETER</b>		<b>CONTRACT-REQUIRED DETECTION LEVEL* (µg/L)</b>	<b>PARAMETER</b>		<b>CONTRACT-REQUIRED DETECTION LEVEL* (µg/L)</b>
1.	Aluminum	200	13.	Magnesium	5,000
2.	Antimony	60	14.	Manganese	15
3.	Arsenic	15	15.	Mercury	0.2
4.	Barium	200	16.	Nickel	40
5.	Beryllium	5	17.	Potassium	5,000
6.	Cadmium	5	18.	Selenium	35
7.	Calcium	5,000	19.	Silver	10
8.	Chromium	10	20.	Sodium	5,000
9.	Cobalt	50	21.	Thallium	25
10.	Copper	25	22.	Vanadium	50
11.	Iron	100	23.	Zinc	60
12.	Lead	10	24.	Cyanide	10

<b>SECTION 2 – ASP ORGANICS (VOLATILES) Method: NYSDEC-ASP-91-1</b>					
<b>VOLATILE</b>		<b>CONTRACT-REQUIRED QUANTITATION LIMIT** (µg/L)</b>	<b>VOLATILE</b>		<b>CONTRACT-REQUIRED QUANTITATION LIMIT** (µg/L)</b>
1.	Chloromethane	5.0	18.	1,2-Dichloropropane	5.0
2.	Bromomethane	5.0	19.	cis-1,3-Dichloropropene	5.0
3.	Vinyl Chloride	5.0	20.	Trichloroethene	5.0
4.	Chloroethane	5.0	21.	Dibromochloromethane	5.0
5.	Methylene Chloride	5.0	22.	1,1,2-Trichloroethane	5.0
6.	Acetone	10.0	23.	Benzene	5.0
7.	Carbon Disulfide	5.0	24.	Trans-1,3-Dichloropropene	5.0
8.	1,1-Dichloroethylene	5.0	25.	Bromoform	5.0
9.	1,1-Dichloroethane	5.0	26.	2-Hexanone	10.0
10.	1,2-Dichloroethylene (total)	5.0	27.	4-Methyl, 1,2-Pentanone	10.0
11.	Chloroform	5.0	28.	Tetrachloroethylene	5.0
12.	1,2-Dichloroethane	5.0	29.	Toluene	5.0
13.	2-Butanone	10.0	30.	Chlorobenzene	5.0
14.	1,1,1-Trichloroethane	5.0	31.	Ethylbenzene	5.0
15.	Carbon Tetrachloride	5.0	32.	Styrene	5.0
16.	Bromodichloromethane	5.0	33.	Total Xylenes	5.0
17.	1,1,2,2-Tetrachloroethane	5.0			

SECTION 3 - ASP ORGANICS (SEMI-VOLATILES) Method: NYSDEC-ASP-91-2			
SEMI-VOLATILE	CONTRACT-REQUIRED QUANTITATION LIMIT (µg/l)	SEMI-VOLATILE	CONTRACT-REQUIRED QUANTITATION LIMIT (µg/l)
1. Phenol	5.0	33. Acenaphthene	5.0
2. Bis(2-chloroethyl)ether	5.0	34. 2,4-Dinitrophenol	10.0
3. 2-Chlorophenol	5.0	35. 4-Nitrophenol	10.0
4. 1,3-Dichlorobenzene	5.0	36. Dibenzofuran	5.0
5. 1,4-Dichlorobenzene	5.0	37. Dinitrotoluene	5.0
6. 1,2-Dichlorobenzene	5.0	38. Diethylphthalate	5.0
7. 2-Methylphenol	5.0	39. 4-Chlorophenyl phenyl ether	5.0
8. 2,2'oxybis(1-Chloropropane)	5.0	40. Fluorene	5.0
9. 4-Methylphenol	5.0	41. 4-Nitroanile	10.0
10. N-Nitroso-dipropylamine	5.0	42. 4,6-Dinitro-2-methylphenol	10.0
11. Hexachloroethane	5.0	43. N-nitrosodiphenyl amine	5.0
12. Nitrobenzene	5.0	44. 4-Bromophenyl phenyl ether	5.0
13. Isophorone	5.0	45. Hexachlorobenzene	5.0
14. 2-Nitrophenol	5.0	46. Pentachlorophenol	10.0
15. 2,4-Dimethylphenol	5.0	47. Phenanthrene	5.0
16. Bis(2-Chloroethoxy) methane	5.0	48. Anthracene	5.0
17. 2,4-Dichlorophenol	5.0	49. Carbazole	5.0
18. 1,2,4-Trichlorobenzene	5.0	50. Di-n-butyl phthalate	5.0
19. Naphthalene	5.0	51. Fluoranthene	5.0
20. 4-Chloroaniline	5.0	52. Pyrene	5.0
21. Hexachlorobutadiene	5.0	53. Butyl benzyl phthalate	5.0
22. 4-Chloro-3-methylphenol	5.0	54. 3,3'-Dichloro benzidine	5.0
23. 2-Methylnaphthalene	5.0	55. Benz(a)anthracene	5.0
24. Hexachlorocyclopentadiene	5.0	56. Chrysene	5.0
25. 2,4,6-Trichlorophenol	5.0	57. Bis(2-ethylhexyl) phthalate	5.0
26. 2,4,5-Trichlorophenol	10.0	58. Di-n-octyl phthalate	5.0
27. 2-Chloronaphthalene	5.0	59. Benzo(b)fluoranthene	5.0
28. 2-Nitroaniline	10.0	60. Benzo(k)fluoranthene	5.0
29. Dimethyl phthalate	5.0	61. Benzo(a)pyrene	5.0
30. Acenaphthylene	5.0	62. Indeno(1,2,3-cd) pyrene	5.0
31. 2,6-Dinitrotoluene	5.0	63. Dibenz(a,h) anthracene	5.0
32. 3-Nitroaniline	10.0	64. Benzo(g,h,i)perylene	5.0

**APPENDIX E**  
**TYPICAL BORING/WELL CONSTRUCTION LOG**



	PROJECT NAME:		500 Main St		MONITORING WELL NO.		MW-1			
	PROJECT LOCATION:		Anytown, NY		JOB NO.					
					GROUND ELEVATION:					
BORING BY:	DATE STARTED	8/6/20	DEVELOPMENT PERIOD		INSIDE CASING DIAMETER (in)					
INSPECTOR:	DATE COMPLETED	8/6/20	DEVELOPMENT METHOD		BOREHOLE DIAMETER (in)					
NJ DEP PERMIT NO.:	DATE DEVELOPED	8/7/20	DEVELOPMENT RATE		INITIAL WATER LEVEL (ft):					
WELL CONSTRUCTION		DEPTH (ft)	Sample	Blows on Spoon				REC	SOIL DESCRIPTION AND STRATIFICATION	P.I.D.
				0/6	6/12	12/18	18/24			
Depth (feet below grade) Top of Casing 0 Ground Surface 0 Top of Riser 0 Top of Seal 2.80' Top of Sand Pack 4.80' Top of Screen 6.80' Bottom of Screen 16.80' Bottom of Boring 16.80' Remarks		0							0	
Casing Type: Flushmount Well Cap: Yes Grout Type: Well Key: Riser Pipe: PVC Sand Pack Size: #2 Screen Size: 0.010		5							0	
		10							0	
		15							0	
		20							0	
		25							0	
		30							0	
		35							0	
		40							0	

Approximate Change in Strata: \_\_\_\_\_ Inferred Change in Strata: \_\_\_\_\_

The subsurface information shown hereon was obtained for the design and estimating purposes for our client. It is made available to authorized users only that they may have access to the same information available to our client. It is presented in good faith, but it is not intended as a substitute for investigations, interpretations or judgment of such authorized users. Information on the logs should not be relied upon without the geotechnical engineers recommendations contained in the report from which these logs were extracted. Soil descriptions represent a field identification after D. M. Burmister unless otherwise noted.

**APPENDIX F**  
**HEALTH AND SAFETY PLAN (HASP)**



## **SITE-SPECIFIC HEALTH AND SAFETY PLAN**

**New Rochelle Block 417 Site  
327-329 Huguenot Street  
New Rochelle, Westchester County, New York**

**Prepared For:**

**RFMCH Huguenot Property Owner II LLC and RFMCH Huguenot Development  
Partners II LLC  
7 Renaissance Square, 4<sup>th</sup> Floor  
White Plains, NY, 10601**

**Prepared By:**

**SESI CONSULTING ENGINEERS  
12A Maple Avenue  
Pine Brook, NJ 07058**

**Project No.: 11571**

**February 2021**

***Disclaimer:*** This Health and Safety Plan (HASP) is based upon information provided [and, if applicable, conditions discovered during a site visit], and is limited by the project scope.

*The HASP should be periodically reviewed and updated based on a number of factors, including but not limited to: (1) changes in applicable governmental requirements; (2) changes in procedures at the site; and (3) site conditions which were unknown to SESI Consulting Engineers (SESI) as of the time the HASP was prepared.*

*This HASP has been prepared for the sole and exclusive use of 247 North Avenue Associates LLC, and may not be relied upon by any other person without the express written consent and authorization of SESI.*

**SITE-SPECIFIC HEALTH AND SAFETY PLAN**

**For**

**RFMCH Huguenot Property Owner II LLC and RFMCH Huguenot  
Development Partners II LLC  
327-329 Huguenot Street  
New Rochelle, Westchester County, New York**

Prepared by: Date: February 2021

Jesse Mausner  
SESI- Project Manager

Approved by: Date: February 2021

Fuad Dahan  
SESI-Project Engineer

# Table of Contents

## Contents

1.0 INTRODUCTION .....	2
1.1 Objective.....	2
1.2 Site and Facility Description.....	2
1.3 Policy Statement.....	2
1.4 References .....	3
1.5 Definitions .....	3
2.0 PROJECT SCOPE OF WORK.....	4
3.0 ROLES AND RESPONSIBILITIES .....	4
3.1 All Personnel .....	4
3.2 Key Safety Personnel.....	4
3.2.1 Project Officer (PO).....	4
3.2.2 Project Manager (PM) .....	4
3.2.3 Health and Safety Manager (HSM) .....	5
3.2.4 Site Safety Officer (SSO) .....	5
3.2.5 Field Supervisor (FS).....	5
3.2.6 Field Personnel (FP) .....	6
3.3 Subcontractors .....	6
3.4 Stop Work Authority .....	6
3.5 All On-Site Personnel.....	6
3.6 Visitors .....	7
4.0 PERSONAL PROTECTIVE EQUIPMENT .....	7
4.1 Levels of Protection.....	7
4.1.1 Level D Protection.....	8
4.1.2 Modified Level D Protection .....	8
4.1.3 Level C Protection.....	8
4.2 Selection of PPE .....	9
4.3 Site Respiratory Protection Program .....	9
4.4 Using PPE.....	9
4.4.1 Donning Procedures .....	9
4.4.2 Doffing Procedures.....	10
4.5 Selection Matrix .....	10
5.0 AIR AND NOISE MONITORING .....	11
5.1 Air Monitoring.....	11
5.2 Noise Monitoring.....	11
5.3 Monitoring Equipment Maintenance and Calibration.....	11
5.4 Action Levels.....	12

6.0 WORK ZONES AND DECONTAMINATION.....	12
6.1 Work Zones .....	12
6.1.1 Authorization to Enter .....	12
6.1.2 Site Orientation and Hazard Briefing .....	13
6.1.3 Certification Documents .....	13
6.1.4 Entry Log.....	13
6.1.5 Entry Requirements .....	13
6.1.6 Emergency Entry and Exit.....	13
6.1.7 Contamination Control Zones.....	13
6.1.8 Exclusion Zone (EZ).....	13
6.1.9 Contamination Reduction Zone .....	14
6.1.10 Support Zone (SZ) .....	14
6.1.11 Posting .....	14
6.1.12 Site Inspections.....	14
6.2 Decontamination.....	14
6.2.1 Personnel Decontamination .....	14
6.2.2 Equipment Decontamination .....	14
6.2.3 Personal Protective Equipment Decontamination.....	15
7.0 TRAINING AND MEDICAL SURVEILLANCE .....	15
7.1 Training .....	15
7.1.1 General .....	15
7.1.2 Basic 40-Hour Course .....	15
7.1.3 Supervisor Course.....	16
7.1.4 Site-Specific Training.....	16
7.1.5 Daily Safety Meetings .....	16
7.1.6 First Aid and CPR.....	16
7.2 Medical Surveillance .....	16
7.2.1 Medical Examination.....	16
7.2.2 Pre-placement Medical Examination.....	16
7.2.3 Other Medical Examinations .....	17
7.2.4 Periodic Exam.....	17
7.2.5 Medical Restriction.....	17
8.0 GENERAL SAFETY PRACTICES .....	17
8.1 General Safety Rules .....	17
8.2 Buddy System.....	18
8.3 Heat Stress .....	19
8.4 Heat Stress Safety Precautions .....	20
8.5 Cold Stress.....	21
8.6 Safety Precautions for Cold Stress Prevention .....	22
8.7 Safe Work Practices.....	23

8.8 Biological Hazards .....	23
8.8.1 Tick Borne Diseases .....	23
8.8.2 Poisonous Plants .....	24
8.8.3 Snakes.....	24
8.8.4 Spiders .....	24
8.9 Noise.....	25
8.10 Spill Control .....	25
8.11 Sanitation.....	25
8.11.1 Break Area.....	26
8.11.2 Potable Water.....	26
8.11.3 Sanitary Facilities .....	26
8.11.4 Lavatory.....	26
8.12 Emergency Equipment.....	26
8.13 Lockout/Tagout Procedures.....	26
8.14 Electrical Safety.....	27
8.15 Lifting Safety.....	27
8.16 Ladder Safety.....	28
8.17 Traffic Safety.....	29
9.0 SITE-SPECIFIC HAZARDS AND CONTROL MEASURES .....	30
9.1 Evaluation of Hazards.....	30
9.1.1 Hazard Characteristics .....	30
9.1.2 Potential Health and Safety Hazards.....	30
9.2 Field Activities, Hazards, and Control Procedures .....	30
9.2.1 Mobilization/Construction Stakeout .....	31
9.2.2 Demolition/Site Clearing .....	31
9.2.3 Excavation and Cut/Fill Operations.....	32
9.2.4 Drilling/Subsurface Intrusion Activities .....	35
9.2.5 Subsurface Chemical Sample Collection/Analysis .....	38
9.2.6 UST Closure .....	38
9.2.7 Decontamination.....	39
9.2.8 Demobilization .....	39
9.3 Chemical Hazards.....	40
10.0 EMERGENCY PROCEDURES .....	40
10.1 General .....	40
10.2 Emergency Response.....	40
10.2.1 Fire.....	41
10.2.2 Contaminant Release .....	41
10.3 Medical Emergency .....	41
10.3.1 Emergency Care Steps.....	41
10.4 First Aid - General.....	42

10.4.1 First Aid - Inhalation .....	42
10.4.2 First Aid - Ingestion.....	42
10.4.3 First Aid - Skin Contact.....	42
10.4.4 First Aid - Eye Contact .....	42
10.5 Reporting Injuries, Illnesses, and Safety Incidents .....	42
10.6 Emergency Information .....	42
10.6.1 Directions to Hospital .....	43
11.0 LOGS, REPORTS, AND RECORD KEEPING.....	44
11.1 HASP Field Change Request.....	44
11.2 Medical and Training Records.....	44
11.3 Exposure Records .....	45
11.4 Accident/Incident Report.....	45
11.5 OSHA Form 200.....	45
11.6 On-Site Health and Safety Field Logbooks .....	45
11.7 Material Safety Data Sheets.....	45
12.0 COVID-19 RESPONSE ACTION PLAN .....	45

**LIST OF FIGURES**

**Figure No. Title**

Fig-1 Directions to Montefiore New Rochelle Hospital

**LIST OF EMBEDDED TABLES**

<b><u>Table</u></b>	<b><u>Title</u></b>	<b><u>Page</u></b>
1.	Key Safety Personnel	14
2.	PPE Selection Matrix	17
3.	Airborne Contaminant Action Levels	19
4.	Work/Rest Schedule	27
5.	Wind Chill Temperature Chart	29
6	List of Primary Contaminants	49
7	Emergency Contacts	52



## **LIST OF ATTACHMENTS**

Attachment 1 Air Monitoring Log

Attachment 2 OSHA Poster

Attachment 3 HASP Field Change Request Form

Attachment 4 Accident/Incident Report

Attachment 5 Signatory Page

Attachment 6 Material Safety Data Sheets

## LIST OF ACRONYMS AND ABBREVIATIONS

ACGIH American Conference of Governmental Industrial Hygienists  
COC Constituent(s) of Concern  
CRZ Contamination Reduction Zone  
EZ Exclusion Zone  
FS Field Supervisor  
GFCI Ground Fault Circuit Interrupter  
HASP Health and Safety Plan HSM  
Health and Safety Manager LEL Lower  
Explosive Limit MSDS Material Safety  
Data Sheet  
OSHA Occupational Safety and Health Administration  
PCB Polychlorinated Biphenyls PEL  
Permissible Exposure Limit PID  
Photoionization Detector PM Project  
Manager  
PO Project Officer  
PPE Personal Protective Equipment SESI  
SESI Consulting Engineers SSO Site Safety  
Officer  
SVOC Semi-Volatile Organic Compound  
SZ Support Zone  
TLV Threshold Limit Value  
USCG United States Coast Guard  
USEPA United States Environmental Protection Agency  
VOC Volatile Organic Compound

## HEALTH AND SAFETY PLAN SUMMARY

The chemical hazards associated with site operations are related to inhalation, ingestion, and skin exposure to site Chemicals of Concern (COCs). COCs at the site include metals, some VOC compounds, some SVOC compounds and some pesticides. Concentrations of airborne COCs during site tasks may be measurable and will require air monitoring during certain operations.

The potential for inhalation of site COCs is low. The potential for dermal contact with soils containing site COCs during remedial operations is moderate.

The following table summarizes airborne contaminant action levels that will be used to determine the procedures and protective equipment necessary based on conditions as measured at the site.

Parameter	Reading	Action
Dust	0 to .5 mg/m <sup>3</sup>	Normal operations
	0.5 to 1 mg/m <sup>3</sup>	Begin soil wetting procedure (Level C protection would be needed beyond this point)
	> 1 mg/m <sup>3</sup>	Stop work, fully implement dust control plan
Oxygen	≤ 19.5%	Stop work, evacuate confined spaces/work area, investigate cause of reading, and ventilate area
	> 19.5% to < 23.5%	Normal operations
	≥ 23.5%	Stop work, evacuate confined spaces/work area, investigate cause of reading, and ventilate area
Carbon Monoxide	0 ppm to ≤ 20 ppm	Normal operations
	> 20 ppm	Stop work, evacuate confined spaces/work area, investigate cause of reading, and ventilate area

The level of personal protection selected will be based on air monitoring of the work environment and an assessment by the Field Supervisor and Site Safety Officer. The following table presents a selection matrix to determine appropriate Personal Protective Equipment.

Task	Anticipated Level of Protection
Mobilization	Level D
Subsurface Intrusive Activities (Mass Excavation, Drilling, Soil Grouting)	Modified Level D/Level C
Earthwork/Grading	Level D
Additional Chemical Sampling / Delineation	Modified Level D/Level C
Decontamination	Modified Level D
Demobilization	Level D

# 1.0 INTRODUCTION

## 1.1 Objective

The objective of this Health and Safety Plan (HASP) is to provide a mechanism for establishing safe working conditions during activities at the New Rochelle Block 417 Site ("Site"), located at 327-329 Huguenot Street, New Rochelle, New York (the Site). The safety organization, procedures, and protective equipment have been established based on an analysis of potential physical, chemical, and biological hazards. Specific hazard control methodologies have been evaluated and selected to minimize the potential of injury, illness, or other hazardous incident.

The HASP was written to meet the requirements of all applicable Federal, State, and local health and safety regulations, including 29 CFR 1910.120. The HASP is based on current knowledge regarding the specific chemical and physical hazards that are known or anticipated at the Site. This HASP is a dynamic document, for which changes and/or revisions may be realized as changes in scope and/or site conditions are encountered. Should revised documents be produced, said revised documents will refer to the specific changes and why they were made.

## 1.2 Site and Facility Description

The Site is approximately 9,600 ft<sup>2</sup> (0.35-acre) lot located at 327-329 Huguenot Street in New Rochelle, Westchester County, New York. The Site comprises one (1) parcel and is identified on the Westchester County Clerk's map as tax parcel 2-417-0001. This site is currently used as a parking lot. The property previously contained an apartment building. A multi-story residential building is currently proposed for the property.

The Site is located in a dense commercial and residential area in downtown New Rochelle, and is bound to the north by Trinity Saint Paul's Episcopal Church, to the east by Huguenot Street, followed by residential and commercial properties, to the south by Centre Avenue, followed by a residential apartment building (currently under construction), and to the west by Rancho Grande Supermarket.

## 1.3 Policy Statement

The policy of SESI Consulting Engineers (SESI) is to provide a safe and healthful work environment. No aspect of operations is of greater importance than injury and illness prevention. A fundamental principle of safety management is that all injuries, illnesses, and incidents are preventable. SESI will take every reasonable step to eliminate or control hazards in order to minimize the possibility of injury, illness, or incident.

This HASP prescribes the procedures that must be followed by SESI personnel during activities at the site. Operational changes that could affect the health and safety of personnel, the community, or the environment will not be made without the prior approval of the Project Manager (PM) and the Health and Safety Manager (HSM). This document will be reviewed periodically by the HSM to ensure that it is current and technically correct. Any changes in site conditions and/or the scope of work will require a review and modification to this HASP. Such changes will be completed in the form of an addendum or a revision to the plan.

The provisions of this plan are mandatory for all SESI personnel and are advisory for all contractors, and subcontractors assigned to the project. **Subcontractors will be responsible for preparing their own site-specific HASPs that meet the basic**

**requirements outlined in this HASP.** All visitors to SESI work areas at the site must abide by the requirements of this plan.

## **1.4 References**

This HASP complies with applicable Occupational Safety and Health Administration (OSHA) regulations, United States Environmental Protection Agency (USEPA) regulations, and SESI health and safety policies and procedures. This plan follows the guidelines established in the following:

- *Standard Operating Safety Guides*, USEPA (Publication 9285.1-03, June 1992).
- *Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities*, NIOSH, OSHA, USCG, USEPA (86116, October 1985).
- *Title 29 of the Code of Federal Regulations (CFR)*, Part 1910.
- *Title 29 of the Code of Federal Regulations (CFR)*, Part 1926.
- *Pocket Guide to Chemical Hazards*, DHHS, PHS, CDC, NIOSH (2004).
- *Threshold Limit Values*, ACGIH (2005).
- *Guide to Occupational Exposure Values*, ACGIH (2005).
- *Quick Selection Guide to Chemical Protective Clothing*, Forsberg, K. and S.Z. Mansdorf, 2nd Ed. (1993).

## **1.5 Definitions**

The following definitions (listed alphabetically) are applicable to this HASP:

- *Contamination Reduction Zone (CRZ)* - Area between the exclusion zone and support zone that provides a transition between contaminated and clean areas. Decontamination stations are located in this zone.
- *Exclusion Zone (EZ)* - Any portions of the site where hazardous substances are, or are reasonably suspected to be present, and pose an exposure hazard to on-site personnel.
- *Incident* - All losses, including first aid cases, injuries, illnesses, spills/leaks, equipment and property damage, motor vehicle accidents, regulatory violations, fires, and business interruptions.
- *On-Site Personnel* - All SESI and subcontractors involved with the project.
- *Project* - All on-site work performed under the scope of work.
- *Site* - The area described in Section 1.2, Site and Facility Description, where the work is to be performed by SESI personnel and subcontractors.
- *Support Zone (SZ)* - All areas of the site except the EZ and CRZ. The SZ surrounds the CRZ and EZ. Support equipment and break areas are located in this zone.
- *Subcontractor* - Includes contractor personnel hired by SESI.
- *Visitor* - All other personnel, except the on-site personnel.
- *Work Area* - The portion of the site where work activities are actively being performed. This area may change daily as work progresses and includes the SZ, CRZ, and EZ. If the work area is located in an area on the site that is not contaminated, or suspected of being contaminated, the entire work area may be a SZ.

## 2.0 PROJECT SCOPE OF WORK

This HASP contains information for the following tasks that SESI is anticipated to conduct at the Site. Should additional and/or different tasks be identified, amendments to this HASP will be required to address these changed items.

- Mobilization/Sample location stakeout;
- Soil Borings and Monitoring Well Installation;
- Excavation of contaminated soils;
- Earthwork and grading;
- UST excavation and removal;
- Chemical sampling of soil and groundwater; and
- Decontamination and demobilization/site restoration.

## 3.0 ROLES AND RESPONSIBILITIES

### *3.1 All Personnel*

All SESI project personnel must adhere to the procedures outlined in this HASP during the performance of their work. Each person is responsible for completing tasks safely and reporting any unsafe acts or conditions to their supervisor. No person may work in a manner that conflicts with these procedures. After due warnings, the PM will dismiss from the site any SESI employee or subcontractor who violates safety procedures.

All SESI project personnel will receive training in accordance with applicable regulations and be familiar with the requirements and procedures contained in this HASP prior to initiating site activities. In addition, all SESI personnel will attend an initial hazard briefing prior to beginning work at the site.

The roles of key safety personnel and subcontractors are outlined in the following sections. Key project personnel and contacts are summarized in **Table 1** in Section 3.6.

### *3.2 Key Safety Personnel*

#### **3.2.1 Project Officer (PO)**

The PO is responsible for providing resources to assure project activities are completed in accordance with this HASP, and for meeting all regulatory and contractual requirements.

#### **3.2.2 Project Manager (PM)**

The PM is responsible for verifying that project activities are completed in accordance with the requirements of this HASP. The PM is responsible for confirming that the Field Supervisor (FS) has the equipment, materials, and qualified personnel to fully implement the safety requirements of this HASP, and/or that subcontractors assigned to this project meet the requirements established by SESI. It is also the responsibility of the PM to:

- Consult with the HSM on site health and safety issues;
- Verify that subcontractors meet health and safety requirements prior to commencing work;
- Verify that all incidents are thoroughly investigated;
- Approve, in writing, addenda or modifications of this HASP; and

- Suspend work or modify work practices, as necessary, for personal safety, protection of property, and regulatory compliance.

### **3.2.3 Health and Safety Manager (HSM)**

The HSM or his designee, the health and safety manager (HSM), has overall responsibility for the technical health and safety aspects of the project, including review and approval of this HASP. Inquiries regarding health and safety procedures, project procedures, and other technical or regulatory issues should be addressed to this individual. The HSM or his designee must approve changes or addenda to this HASP.

### **3.2.4 Site Safety Officer (SSO)**

The SSO is responsible for field health and safety issues, including the execution of this HASP. Questions in the field regarding health and safety procedures, project procedures, and other technical or regulatory issues should be addressed to this individual. The SSO will advise the PM on health and safety issues and will establish and coordinate the project air-monitoring program if one is deemed necessary (see Section 5.1, Air Monitoring). The SSO is the primary site contact on health and safety matters. It is the responsibility of the SSO to:

- Provide on-site technical assistance, if necessary;
- Participate in all accident/incident reports and ensure that they are reported to the HSM, client, and PM within 24 hours;
- Coordinate site and personal air monitoring as required, including equipment maintenance and calibration;
- Conduct site safety orientation training and safety meetings;
- Verify that project personnel have received the required physical examinations and medical certifications;
- Review site activities with respect to compliance with this HASP;
- Maintain required health and safety documents and records; and
- Assist the FS in instructing field personnel on project hazards and protective procedures.

### **3.2.5 Field Supervisor (FS)**

The FS is responsible for implementing this HASP, including communicating requirements to on-site personnel and subcontractors. The FS will be responsible for informing the PM of changes in the work plan, procedures, or site conditions so that those changes may be addressed in this HASP. Other responsibilities are to:

- Consult with the SSO on site health and safety issues;
- Stop work, as necessary, for personal safety, protection of property, and regulatory compliance;
- Obtain a site map and determine and post routes to medical facilities and emergency telephone numbers;
- Notify local public emergency representatives (as appropriate) of the nature of the site operations, and post their telephone numbers (i.e., local fire department personnel who would respond for a confined space rescue);
- Observe on-site project personnel for signs of ill health effects;
- Investigate and report any incidents to the SSO;
- Verify that all on-site personnel have had applicable training;

- Verify that on-site personnel are informed of the physical, chemical, and biological hazards associated with the site activities, and the procedures and protective equipment necessary to control the hazards; and
- Issue/obtain any required work permits (hot work, confined space, etc.).

### **3.2.6 Field Personnel (FP)**

All SESI field personnel are responsible for following the Health and Safety procedures specified in this HASP and work practices specified in applicable operation procedures. Some specific responsibilities include, but are not limited to:

- Reading and understanding the HASP;
- Reporting all accidents, incidents, injuries, or illnesses to the FS;
- Complying with the requests of the SSO;
- Immediately communicating newly identified hazards or noncompliance issues to the FS or SSO; and
- Stopping work in cases of immediate danger.

### **3.3 Subcontractors**

Subcontractors and their personnel must understand and comply with applicable regulations and site requirements established in this HASP. Subcontractors will prepare their own site-specific HASP that must be consistent with the requirements of this HASP.

All subcontractor personnel will receive training in accordance with applicable regulations and be familiar with the requirements and procedures contained in this HASP prior to initiating site activities. All subcontractor personnel will attend an initial hazard briefing prior to beginning work at the site. Additionally, on-site subcontractor personnel must conduct daily site safety meetings.

Subcontractors must designate individuals to function as the PM, HSM, SSO, and FS. In some firms the HSM to be carried out by the PM. This is acceptable provided the PM has the required knowledge, training, and experience to properly address all hazards associated with the work, and to prepare, approve, and oversee the execution of the site-specific HASP. A subcontractor may designate the same person to perform the duties of both the SSO and the FS. However, depending on the level of complexity of a contractor's scope of work, it may be infeasible for one person to perform both functions satisfactorily.

### **3.4 Stop Work Authority**

Every SESI employee and subcontractor is empowered, expected, and has the responsibility to stop the work of another co-worker if the working conditions or behaviors are considered unsafe.

### **3.5 All On-Site Personnel**

All on-site SESI personnel (including SESI subcontractors) must read and acknowledge their understanding of their respective HASPs before commencing work and abide by the requirements of the plans. All on-site SESI personnel shall sign their HASP Acknowledgement Form following their review of their HASP.

All SESI project personnel will receive training in accordance with applicable regulations and be familiar with the requirements and procedures contained in this HASP prior to initiating site activities. In addition, all on-site personnel will attend an initial hazard briefing



provided by the SSO prior to beginning work at the site and conduct daily safety meetings thereafter.

On-site personnel will immediately report the following to the FS or SSO:

- Personal injuries and illnesses no matter how minor;
- Unexpected or uncontrolled release of chemical substances;
- Symptoms of chemical exposure;
- Unsafe or hazardous situations;
- Unsafe or malfunctioning equipment;
- Changes in site conditions that may affect the health and safety of project personnel;
- Damage to equipment or property; and
- Situations or activities for which they are not properly trained.

### **3.6 Visitors**

All SESI personnel and subcontractors visiting the Site must check in with the FS. Visitors will be cautioned to avoid skin contact with surfaces, soils, groundwater, or other materials that may impacted or be suspected to be impacted by constituents of concern (COCs).

Visitors requesting to observe work at the site must don appropriate personal protective equipment (PPE) prior to entry to the work area and must have the appropriate training and medical clearances to do so. If respiratory protective devices are necessary, visitors who wish to enter the work area must have been respirator-trained and fit tested for a respirator within the past 12 months.

**Table 1 – Key Safety Personnel**

<b>SESI Personnel</b>		
<b>Role</b>	<b>Name</b>	<b>Address/Telephone No.</b>
Project Officer (PO)	Jesse Mausner	Pine Brook, NJ/973.808.9050
Project Manager (PM)	Jesse Mausner	Pine Brook, NJ/973.808.9050
Senior Project Engineer (SPE)	Fuad Dahan	Pine Brook, NJ/973.808.9050
Health and Safety Manager (HSM)	Joe Scardino	Pine Brook, NJ/973.808.9050
Site Safety Officer (SSO)	Joe Scardino	Pine Brook, NJ/973.808.9050
Field Supervisor (FS)	Todd Kelly	Pine Brook, NJ/973.808.9050
Field Personnel	Jon Stuart	Pine Brook, NJ/973.808.9050
Field Personnel	Tajj Patel	Pine Brook, NJ/973.808.9050
<b>Subcontractors</b>		
<b>Company/Role</b>	<b>Name</b>	<b>Address/Telephone No.</b>
Alpha Analytical laboratories	Laboratory	Westborough, MA/201.972.6356

## **4.0 PERSONAL PROTECTIVE EQUIPMENT**

### **4.1 Levels of Protection**

PPE is required to safeguard site personnel from various hazards. Varying levels of protection may be required depending on the levels of COCs and the degree of physical hazard. This section presents the various levels of protection and defines the conditions of use for each level. A summary of the levels is presented in **Table 2** in Section 4.5.

#### 4.1.1 Level D Protection

The minimum level of protection that will be required of project personnel at the site will be Level D, which will be worn when site conditions or air monitoring indicates no inhalation hazard exists. The following equipment will be used:

- Work clothing as prescribed by weather;
  - Steel toe work boots, meeting American National Standards Institute (ANSI) Z41;
  - Safety glasses or goggles, meeting ANSI Z87;
  - Leather work gloves and/or nitrile surgical gloves;
  - Hard hat, meeting ANSI Z89, when falling object hazards are present;
  - Hearing protection (if noise levels exceed 85 dBA, then hearing protection with a USEPA NRR of at least 20 dBA must be used); and
  - PFD if working on or near the water.

#### 4.1.2 Modified Level D Protection

Modified Level D will be used when airborne contaminants are not present at levels of concern, but site activities present an increased potential for skin contact with contaminated materials. Modified Level D consists of:

- Nitrile gloves worn over nitrile surgical gloves;
- Latex/polyvinyl chloride (PVC) overboots when contact with COC-impacted media is anticipated;
- Steel toe work boots, meeting ANSI Z41;
- Safety glasses or goggles, meeting ANSI Z87;
- Face shield in addition to safety glasses or goggles when projectiles or splash hazards exist (e.g. during Power Washing activities);
- Hard hat, meeting ANSI Z89, when falling object hazards are present;
- Hearing protection (if noise levels exceed 85 dBA, then hearing protection with a USEPA NRR of at least 20 dBA must be used);
- Tyvek® suit (polyethylene coated Tyvek® suits for handling liquids) when body contact with COC-impacted media is anticipated; and
- PFD if working on or near the water.

#### 4.1.3 Level C Protection

Level C protection will be required when the airborne concentration of COC reaches one-half of the OSHA Permissible Exposure Limit or ACGIH TLV. The following equipment will be used for Level C protection:

- Full-face, air-purifying respirator with combination organic vapor/HEPA cartridges;
- Polyethylene-coated Tyvek® suit, with ankles and cuffs taped to boots and gloves;
- Nitrile gloves worn over nitrile surgical gloves;
- Steel toe work boots, meeting ANSI Z41;
- Chemical-resistant boots with steel toes or latex/PVC over boots over steel toe boots;
- Hard hat, meeting ANSI Z89;
- Hearing protection (if noise levels exceed 85 dBA, then hearing protection with a USEPA NRR of at least 20 dBA must be used); and
- PFD if working on or near the water.

## ***4.2 Selection of PPE***

Equipment for personal protection will be selected based on the potential for contact, site conditions, ambient air quality, and the judgment of supervising site personnel and health and safety professionals. The PPE used will be chosen to be effective against the COCs present on the site

## ***4.3 Site Respiratory Protection Program***

Respiratory protection is an integral part of employee health and safety at the site due to potentially hazardous concentrations of airborne COCs. The site respiratory protection program will consist of the following (as a minimum):

- All on-site personnel who may use respiratory protection will have an assigned respirator.
- All on-site personnel who may use respiratory protection will have been fit tested and trained in the use of a full-face air-purifying respirator within the past 12 months. Documentation of the fit test must be provided to the SSO prior to commencement of work.
- All on-site personnel who may use respiratory protection must within the past year have been medically certified as being capable of wearing a respirator. Documentation of the medical certification must be provided to the SSO, prior to commencement of site work.
- Only cleaned, maintained, NIOSH-approved respirators will be used.
- If respirators are used, the respirator cartridge is to be properly disposed of at the end of each work shift, or when load-up or breakthrough occurs.
- Contact lenses are not to be worn when a respirator is worn.
- All on-site personnel who may use respiratory protection must be clean-shaven. Mustaches and sideburns are permitted, but they must not touch the sealing surface of the respirator.
- Respirators will be inspected, and a negative pressure test performed prior to each use.
- After each use, the respirator will be wiped with a disinfectant, cleansing wipe. When used, the respirator will be thoroughly cleaned at the end of the work shift. The respirator will be stored in a clean plastic bag, away from direct sunlight in a clean, dry location, in a manner that will not distort the face piece.

## ***4.4 Using PPE***

Depending upon the level of protection selected, specific donning and doffing procedures may be required. The procedures presented in this section are mandatory if Modified Level D or Level C PPE is used. All personnel entering the EZ must put on the required PPE in accordance with the requirements of this HASP. When leaving the EZ, PPE will be removed in accordance with the procedures listed, to minimize the spread of COCs.

### ***4.4.1 Donning Procedures***

These procedures are mandatory only if Modified Level D or Level C PPE is used on the site:

- Remove bulky outerwear. Remove street clothes and store in clean location;
- Put on work clothes or coveralls;
- Put on the required chemical protective coveralls;
- Put on the required chemical protective boots or boot covers;
- Tape the legs of the coveralls to the boots with duct tape;

- Put on the required chemical protective gloves;
- Tape the wrists of the protective coveralls to the gloves;
- Don the required respirator and perform appropriate fit check (Level C);
- Put hood or head covering overhead and respirator straps and tape hood to facepiece (Level C); and
- Don remaining PPE, such as safety glasses or goggles and hard hat.

When these procedures are instituted, one person must remain outside the work area to ensure that each person entering has the proper protective equipment.

#### 4.4.2 Doffing Procedures

The following procedures are only mandatory if Modified Level D or Level C PPE is required for the site. Whenever a person leaves the work area, the following decontamination sequence will be followed:

- Upon entering the CRZ, rinse contaminated materials from the boots or remove contaminated boot covers;
- Clean reusable protective equipment;
- Remove protective garments, equipment, and respirator (Level C). All disposable clothing should be placed in plastic bags, which are labeled with contaminated waste labels;
- Wash hands, face, and neck (or shower if necessary);
- Proceed to clean area and dress in clean clothing; and
- Clean and disinfect respirator for next use.

All disposable equipment, garments, and PPE must be bagged in plastic bags, labeled for disposal. See Section 7, Decontamination, for detailed information on decontamination stations.

#### 4.5 Selection Matrix

The level of personal protection selected will be based on air monitoring of the work environment and an assessment by the FS and SSO of the potential for skin contact with COCs. The PPE selection matrix is presented in Table 2. This matrix is based on information available at the time this plan was written. The Airborne Contaminant Action Levels in Table 3, Airborne Contaminant Action Levels, should be used to verify that the PPE prescribed in these matrices is appropriate.

**Table 2 – PPE Selection Matrix**

<b>Task</b>	<b>Anticipated Level of Protection</b>
Mobilization	Level D
Subsurface Intrusive Activities (Excavation, Drilling)	Modified Level D/Level C
Earthwork/Grading	Level D
Chemical Sampling / Delineation	Modified Level D/Level C
Decontamination	Modified Level D
Demobilization	Level D

## **5.0 AIR AND NOISE MONITORING**

### ***5.1 Air Monitoring***

Air monitoring, sampling, and testing will be conducted to determine employee exposure to airborne constituents. The monitoring results will dictate work procedures and the selection of PPE. The SESI SSO will be responsible for defining appropriate air monitoring procedures and for utilizing the air monitoring results to determine appropriate procedures and PPE for project personnel. Air monitoring results should be recorded in field notebooks or on an air monitoring log (see **Attachment 1** for a copy of the Air Monitoring Log). Any deviations from the procedures listed here should be documented and explained in the Air Monitoring Log.

The monitoring devices to be used are a PDR1000 particulate monitor (or equivalent) and a Rae Systems photoionization detector (PID with a 10.6 eV, or Multi-Rae a 11.7 eV lamp/oxygen/LEL/hydrogen sulfide sensors if flammable gasses are suspected). Colorimetric detector tubes may be utilized to estimate airborne concentrations of benzene and should be onsite during any activities that may result in elevated PID readings including drilling, excavating, and groundwater sampling.

Air monitoring will be conducted continuously with a particulate meter and PID or Multi-Rae during drilling in areas where flammable vapors or gases are suspect. All work activity must stop where tests indicate the concentration of flammable vapors exceeds 10% of the LEL at a location with a potential ignition source. Such an area must be ventilated to reduce the concentration to an acceptable level.

### ***5.2 Noise Monitoring***

Noise monitoring may be conducted as required. Hearing protection is mandatory for all employees in noise hazardous areas, such as around heavy equipment. As a general rule, sound levels that cause speech interference at normal conversation distance should require the use of hearing protection.

### ***5.3 Monitoring Equipment Maintenance and Calibration***

All direct-reading instrumentation calibrations should be conducted under the approximate environmental conditions the instrument will be used. Instruments must be calibrated before and after use, noting the reading(s) and any adjustments that are necessary. All air monitoring equipment calibrations, including the standard used for calibration, must be documented on a calibration log or in the field notebook. All completed health and safety documentation/forms must be reviewed by the SSO and maintained by the FS.

All air monitoring equipment will be maintained and calibrated in accordance with the specific manufacturer's procedures. Preventive maintenance and repairs will be conducted in accordance with the respective manufacturer's procedures. When applicable, only manufacturer-trained and/or authorized personnel will be allowed to perform instrument repairs or preventive maintenance.

If an instrument is found to be inoperative or suspected of giving erroneous readings, the SSO must be responsible for immediately removing the instrument from service and obtaining a replacement unit. If the instrument is essential for safe operation during a specific activity, that activity must cease until an appropriate replacement unit is obtained. The SSO will be responsible for ensuring a replacement unit is obtained and/or repairs are initiated on the defective equipment.

## 5.4 Action Levels

**Table 3** below presents airborne contaminant action levels that will be used to determine the procedures and protective equipment necessary based on conditions as measured at the site.

**Table 3 – Airborne Contaminant Action Levels**

Parameter	Reading	Action
Total Hydrocarbons	0 ppm to $\leq$ 1 ppm	Normal operations; continue hourly breathing zone monitoring
	> 1 ppm to 5 ppm	Increase monitoring frequency to every 15 minutes and use benzene detector tube to screen for the presence of benzene
	$\geq$ 5 ppm to $\leq$ 50 ppm	Upgrade to Level C PPE; continue screening for benzene
	> 50 ppm	Stop work; investigate cause of reading
	At any reading > 5 ppm	Monitor perimeter per CAMP
Benzene	$\geq$ 1 ppm to 5 ppm	Upgrade to Level C PPE
	> 5 ppm	Stop work; investigate cause of reading
Dust	0 to .05 mg/m <sup>3</sup>	Normal operations
	0.05 to 0.1 mg/m <sup>3</sup>	Begin soil wetting procedure (Level C protection would be needed beyond this point)
	> 0.15 mg/m <sup>3</sup>	Stop work, fully implement dust control plan
Oxygen	$\leq$ 19.5%	Stop work, evacuate confined spaces/work area, investigate cause of reading, and ventilate area
	> 19.5% to < 23.5%	Normal operations
	$\geq$ 23.5%	Stop work, evacuate confined spaces/work area, investigate cause of reading, and ventilate area
Carbon Monoxide	0 ppm to $\leq$ 20 ppm	Normal operations
	> 20 ppm	Stop work, evacuate confined spaces/work area, investigate cause of reading, and ventilate area
Hydrogen Sulfide	0 ppm to $\leq$ 5 ppm	Normal operations
	> 5 ppm	Stop work, evacuate confined spaces/work area, investigate cause of reading, and ventilate area
Flammable Vapors (LEL)	< 10% LEL	Normal operations
	$\geq$ 10% LEL	Stop work, ventilate area, investigate source of vapors

## 6.0 WORK ZONES AND DECONTAMINATION

### 6.1 Work Zones

#### 6.1.1 Authorization to Enter

Only personnel with the appropriate training and medical certifications (if respirators are required) will be allowed to work at the project site. The FS will maintain a list of authorized persons; only personnel on the authorized persons list will be allowed to enter the site work areas.

### **6.1.2 Site Orientation and Hazard Briefing**

No person will be allowed in the work area during site operations without first being given a site orientation and hazard briefing. This orientation will be presented by the FS or SSO and will consist of a review of this HASP. This review must cover the chemical, physical, and biological hazards, protective equipment, safe work procedures, and emergency procedures for the project. Following this initial meeting, daily safety meetings will be held each day before work begins.

All people entering the site work areas, including visitors, must document their attendance at this briefing, as well as the daily safety meetings on the forms included with this plan.

### **6.1.3 Certification Documents**

A training and medical file may be established for the project and kept on site during all site operations. Specialty training, such as first aid/cardiopulmonary resuscitation (CPR) certificates, as well as current medical clearances for all project field personnel required to wear respirators, will be maintained within that file. All project personnel must provide their training and medical documentation to the SSO prior to starting work.

### **6.1.4 Entry Log**

A log-in/log-out sheet will be maintained at the site by the FS. Personnel must sign in and out on a log sheet as they enter and leave the work area, and the FS may document entry and exit in the field notebook.

### **6.1.5 Entry Requirements**

In addition to the authorization, hazard briefing, and certification requirements listed above, no person will be allowed in any SESI work area unless they are wearing the minimum PPE as described in Section 4.0.

### **6.1.6 Emergency Entry and Exit**

People who must enter the work area on an emergency basis will be briefed of the hazards by the FS or SSO. All activities will cease in the event of an emergency. People exiting the work area because of an emergency will gather in a designated safe area for a head count. The FS is responsible for ensuring that all people who entered the work area have exited in the event of an emergency.

### **6.1.7 Contamination Control Zones**

Contamination control zones are maintained to prevent the spread of contamination and to prevent unauthorized people from entering hazardous areas.

### **6.1.8 Exclusion Zone (EZ)**

An EZ may consist of a specific work area or may be the entire area of potential contamination. All employees entering an EZ must use the required PPE and must have the appropriate training and medical clearance for hazardous waste work. The EZ is the defined area where there is a possible respiratory and/or contact health hazard. Cones, caution tape, or a posted site diagram will identify the location of each EZ.

### **6.1.9 Contamination Reduction Zone**

The CRZ or transition area will be established, if necessary, to perform decontamination of personnel and equipment. All personnel entering or leaving the EZ will pass through this area to prevent any cross-contamination. Tools, equipment, and machinery will be decontaminated in a specific location. The decontamination of all personnel will be performed on site adjacent to the EZ. Personal protective outer garments and respiratory protection will be removed in the CRZ and prepared for cleaning or disposal. This zone is the only appropriate corridor between the EZ and the support zone (SZ) discussed below.

### **6.1.10 Support Zone (SZ)**

The SZ is a clean area outside the CRZ located to prevent employee exposure to hazardous substances. Eating and drinking will be permitted in the support area only after proper decontamination. Smoking may be permitted in the SZ, subject to site requirements.

### **6.1.11 Posting**

Work areas will be prominently marked and delineated using cones, caution tape, or a posted site diagram.

### **6.1.12 Site Inspections**

The FS will conduct a daily inspection of site activities, equipment, and procedures to verify that the required elements are in place.

## ***6.2 Decontamination***

### **6.2.1 Personnel Decontamination**

All personnel wearing Modified Level D or Level C protective equipment in the EZ must undergo personal decontamination prior to entering the SZ. The personnel decontamination area will consist of the following stations at a minimum:

- *Station 1:* Personnel leaving the contaminated zone will remove the gross contamination from their outer clothing and boots.
- *Station 2:* Personnel will remove their outer garment and gloves and dispose of it in properly labeled containers. Personnel will then decontaminate their hard hats, and boots with an aqueous solution of detergent or other appropriate cleaning solution. These items are then hand carried to the next station.
- *Station 3:* Personnel will thoroughly wash their hands and face before leaving the CRZ. Respirators will be sanitized and then placed in a clean plastic bag.

### **6.2.2 Equipment Decontamination**

All vehicles that have entered the EZ will be decontaminated at the decontamination pad prior to leaving the zone. If the level of vehicle contamination is low, decontamination may be limited to rinsing of tires and wheel wells with water. If the vehicle is significantly contaminated, steam cleaning or pressure washing of vehicles and equipment may be required.



### **6.2.3 Personal Protective Equipment Decontamination**

Where and whenever possible, single-use, external protective clothing must be used for work within the EZ or CRZ. This protective clothing must be disposed of in properly labeled containers. Reusable protective clothing will be rinsed at the site with detergent and water. The rinsate will be collected for disposal.

When removed from the CRZ, the respirator will be thoroughly cleaned with soap and water. The respirator face piece, straps, valves, and covers must be thoroughly cleaned at the end of each work shift, and ready for use prior to the next shift. Respirator parts may be disinfected with a solution of bleach and water (mixed at 2% bleach by volume), or by using a spray disinfectant.

## **7.0 TRAINING AND MEDICAL SURVEILLANCE**

### **7.1 Training**

#### **7.1.1 General**

All on-site project personnel who work in areas where they may be exposed to site contaminants must be trained as required by OSHA Regulation 29 CFR 1910.120 (HAZWOPER). Field employees also must receive a minimum of three days of actual field experience under the direct supervision of a trained, experienced supervisor. Personnel who completed their initial training more than 12 months prior to the start of the project must have completed an eight-hour refresher course within the past 12 months. The FS must have completed an additional eight hours of supervisory training and must have a current first-aid/CPR certificate (See Attachment 2).

#### **7.1.2 Basic 40-Hour Course**

The following is a list of the topics typically covered in a 40-hour HAZWOPER training course:

- General safety procedures;
- Physical hazards (fall protection, noise, heat stress, cold stress);
- Names and job descriptions of key personnel responsible for site health and safety;
- Safety, health, and other hazards typically present at hazardous waste sites;
- Use, application, and limitations of PPE;
- Work practices by which employees can minimize risks from hazards;
- Safe use of engineering controls and equipment on site;
- Medical surveillance requirements;
- Recognition of symptoms and signs which might indicate overexposure to hazards;
- Worker right-to-know (Hazard Communication OSHA 1910.1200);
- Routes of exposure to contaminants;
- Engineering controls and safe work practices;
- Components of a health and safety program and a site-specific HASP;
- Decontamination practices for personnel and equipment;
- Confined-space entry procedures; and
- General emergency response procedures.

### **7.1.3 Supervisor Course**

Management and supervisors must receive an additional eight hours of training, which typically includes:

- General site safety and health procedures;
- PPE programs; and
- Air monitoring techniques.

### **7.1.4 Site-Specific Training**

Site-specific training will be accomplished by on-site personnel reading this HASP, and through a thorough site briefing by the PM, FS, or SSO on the contents of this HASP before work begins. The review must include a discussion of the chemical, physical, and biological hazards; the protective equipment and safety procedures; and emergency procedures.

### **7.1.5 Daily Safety Meetings**

Daily safety meetings will be held to cover the work to be accomplished, the hazards anticipated, the PPE and procedures required to minimize site hazards, and emergency procedures. The FS or SSO should present these meetings prior to beginning the day's fieldwork. No work will be performed in an EZ before a daily safety meeting has been held. An additional safety meeting must also be held prior to new tasks, or if new hazards are encountered. The daily safety meetings will be logged in the field notebook.

### **7.1.6 First Aid and CPR**

At least one employee current in first aid/CPR will be assigned to the work crew and will be on the site during operations. Site records will document the presence of this individual. Refresher training in first aid (triennially) and CPR (annually) is required to keep the certificate current. These individuals must also receive training regarding the precautions and protective equipment necessary to protect against exposure to blood-borne pathogens.

## ***7.2 Medical Surveillance***

### **7.2.1 Medical Examination**

All personnel who are potentially exposed to site contaminants must participate in a medical surveillance program as defined by OSHA at 29 CFR 1910.120 (f).

### **7.2.2 Pre-placement Medical Examination**

All potentially exposed personnel must have completed a comprehensive medical examination prior to assignment, and periodically thereafter as defined by applicable regulations. The pre-placement and periodic medical examinations typically include the following elements:

- Medical and occupational history questionnaire;
- Physical examination;
- Complete blood count, with differential;
- Liver enzyme profile;
- Chest X-ray, at a frequency determined by the physician;
- Pulmonary function test;

- Audiogram;
- Electrocardiogram for persons older than 45 years of age, or if indicated during the physical examination;
- Drug and alcohol screening, as required by job assignment; Visual acuity; and
- Follow-up examinations, at the discretion of the examining physician or the corporate medical director.

The examining physician provides the employee with a letter summarizing his findings and recommendations, confirming the worker's fitness for work and ability to wear a respirator. Documentation of medical clearance will be available for each employee during all project site work.

Subcontractors will certify that all their employees have successfully completed a physical examination by a qualified physician. The physical examinations must meet the requirements of 29 CFR 1910.120 and 29 CFR 1910.134. Subcontractors will supply copies of the medical examination certificate for each on-site employee.

### **7.2.3 Other Medical Examinations**

In addition to pre-employment, annual, and exit physicals, personnel may be examined:

- At employee request after known or suspected exposure to toxic or hazardous materials; and
- At the discretion of the SSO, HSM, or occupational physician in anticipation of, or after known or suspected exposure to toxic or hazardous materials.

### **7.2.4 Periodic Exam**

Following the placement examination, all employees must undergo a periodic examination, similar in scope to the placement examination. For employees potentially exposed over 30 days per year, the frequency of periodic examinations will be annual. For employees potentially exposed less than 30 days per year, the frequency for periodic examinations will be 24 months.

### **7.2.5 Medical Restriction**

When the examining physician identifies a need to restrict work activity, the employee's supervisor must communicate the restriction to the employee and the SSO. The terms of the restriction will be discussed with the employee and the supervisor.

## **8.0 GENERAL SAFETY PRACTICES**

### ***8.1 General Safety Rules***

General safety rules for site activities include, but are not limited to, the following:

- At least one copy of this HASP must be in a location at the site that is readily available to personnel, and all project personnel shall review the plan prior to starting work.
- Consume or use food, beverages, chewing gum, and tobacco products only in the SZ or other designated area outside the EZ and CRZ. Cosmetics shall not be applied in the EZ or CRZ.
- Wash hands before eating, drinking, smoking, or using toilet facilities.

- Wear all PPE as required and stop work and replace damaged PPE immediately.
- Secure disposable coveralls, boots, and gloves at the wrists and legs and ensure closure of the suit around the neck.
- Upon skin contact with materials that may be impacted by COCs, remove contaminated clothing and wash the affected area immediately. Contaminated clothing must be changed. Any skin contact with materials potentially impacted by COCs must be reported to the FS or SSO immediately. If needed, medical attention should be sought.
- Practice contamination avoidance. Avoid contact with surfaces either suspected or known to be impacted by COCs, such as standing water, mud, or discolored soil. Equipment must be stored on elevated or protected surfaces to reduce the potential for incidental contamination.
- Remove PPE as required in the CRZ to limit the spread of COC-containing materials.
- At the end of each shift or as required, dispose of all single-use coveralls, soiled gloves, and respirator cartridges in designated receptacles designated for this purpose.
- Removing soil containing site COCs from protective clothing or equipment with compressed air, shaking, or any other means that disperses contaminants into the air is prohibited.
- Inspect all non-disposable PPE for contamination in the CRZ. Any PPE found to be contaminated must be decontaminated or disposed of appropriately.
- Recognize emergency signals used for evacuation, injury, fire, etc.
- Report all injuries, illnesses, and unsafe conditions or work practices to the FS or SSO.
- Use the “buddy system” during all operations requiring Level C PPE, and when appropriate, during Modified Level D operations.
- Obey all warning signs, tags, and barriers. Do not remove any warnings unless authorized to do so.
- Use, adjust, alter, and repair equipment only if trained and authorized to do so, and in accordance with the manufacturer’s directions.
- Personnel are to perform only tasks for which they have been properly trained and will advise their supervisor if they have been assigned a task for which they are not trained.
- The presence or consumption of alcoholic beverages or illicit drugs during the workday, including breaks, is strictly prohibited. Notify your supervisor if you must take prescription or over-the-counter drugs that indicate they may cause drowsiness or, that you should not operate heavy equipment.
- Remain upwind during site activities whenever possible.

## **8.2 Buddy System**

On-site personnel must use the buddy system as required by operations. Use of the “buddy system” is required during all operations requiring Level C to Level A PPE, and when appropriate, during Level D operations. Crewmembers must observe each other for signs of chemical exposure, and heat or cold stress. Indications of adverse effects include, but are not limited to:

- Changes in complexion and skin coloration;
- Changes in coordination;
- Changes in demeanor;
- Excessive salivation and pupillary response; and
- Changes in speech pattern.

Crewmembers must also be aware of the potential exposure to possible safety hazards, unsafe acts, or non-compliance with safety procedures.

Field personnel must inform their partners or fellow crewmembers of non-visible effects of exposure to toxic materials that they may be experiencing. The symptoms of such exposure may include, but are not limited to:

- Headaches;
- Dizziness;
- Nausea;
- Blurred vision;
- Cramps; and
- Irritation of eyes, skin, or respiratory tract.

If protective equipment or noise levels impair communications, prearranged hand signals must be used for communication. Personnel must stay within line of sight of another team member.

### ***8.3 Heat Stress***

Heat stress is caused by a number of interacting factors, including environmental conditions, clothing, workload, etc., as well as the physical and conditioning characteristics of the individual. Since heat stress is one of the most common illnesses associated with heavy outdoor work conducted with direct solar load and, in particular, because wearing PPE can increase the risk of developing heat stress, workers must be capable of recognizing the signs and symptoms of heat-related illnesses. Personnel must be aware of the types and causes of heat-related illnesses and be able to recognize the signs and symptoms of these illnesses in both themselves and their co-workers.

*Heat rashes* are one of the most common problems in hot work environments. Commonly known as prickly heat, a heat rash is manifested as red papules and usually appears in areas where the clothing is restrictive. As sweating increases, these papules give rise to a prickling sensation. Prickly heat occurs in skin that is persistently wetted by unevaporated sweat, and heat rash papules may become infected if they are not treated. In most cases, heat rashes will disappear when the affected individual returns to a cool environment.

*Heat cramps* are usually caused by performing hard physical labor in a hot environment. These cramps have been attributed to an electrolyte imbalance caused by sweating. It is important to understand that cramps can be caused both by too much or too little salt.

Cramps appear to be caused by the lack of water replenishment. Because sweat is a hypotonic solution (plus or minus 0.3% NaCl), excess salt can build up in the body if the water lost through sweating is not replaced. Thirst cannot be relied on as a guide to the need for water; instead, water must be taken every 15 to 20 minutes in hot environments.

Under extreme conditions, such as working for 6 to 8 hours in heavy protective gear, a loss of sodium may occur. Drinking commercially available carbohydrate electrolyte replacement liquids is effective in minimizing physiological disturbances during recovery.

*Heat exhaustion* occurs from increased stress on various body organs due to inadequate blood circulation, cardiovascular insufficiency, or dehydration. Signs and symptoms include pale, cool, moist skin; heavy sweating; dizziness; nausea; headache, vertigo, weakness, thirst, and giddiness. Fortunately, this condition responds readily to prompt treatment.

Heat exhaustion should not be dismissed lightly, however, for several reasons. One is that the fainting associated with heat exhaustion can be dangerous because the victim may be

operating machinery or controlling an operation that should not be left unattended; moreover, the victim may be injured when he or she faints. Also, the signs and symptoms seen in heat exhaustion are similar to those of heat stroke, which is a medical emergency.

Workers suffering from heat exhaustion should be removed from the hot environment, be given fluid replacement, and be encouraged to get adequate rest.

*Heat stroke* is the most serious form of heat stress. Heat stroke occurs when the body's system of temperature regulation fails and the body's temperature rises to critical levels. This condition is caused by a combination of highly variable factors, and its occurrence is difficult to predict. Heat stroke is a medical emergency. The primary signs and symptoms of heat stroke are confusion; irrational behavior; loss of consciousness; convulsions; a lack of sweating (usually); hot, dry skin; and an abnormally high body temperature, e.g., a rectal temperature of 41°C (105.8°F). If body temperature is too high, it causes death. The elevated metabolic temperatures caused by a combination of workload and environmental heat load, both of which contribute to heat stroke, are also highly variable and difficult to predict.

If a worker shows signs of possible heat stroke, professional medical treatment should be obtained immediately. The worker should be placed in a shady area and the outer clothing should be removed. The worker's skin should be wetted and air movement around the worker should be increased to improve evaporative cooling until professional methods of cooling are initiated and the seriousness of the condition can be assessed. Fluids should be replaced as soon as possible. The medical outcome of an episode of heat stroke depends on the victim's physical fitness and the timing and effectiveness of first aid treatment.

Regardless of the worker's protestations, no employee suspected of being ill from heat stroke should be sent home or left unattended unless a physician has specifically approved such an order.

Proper training and preventive measures will help avert serious illness and loss of work productivity. Preventing heat stress is particularly important because once someone suffers from heat stroke or exhaustion, that person may be predisposed to additional heat injuries.

### 8.4 Heat Stress Safety Precautions

Heat stress monitoring and work rest cycle implementation should commence when the ambient adjusted temperature exceeds 72°F. A minimum work rest regimen and procedures for calculating ambient adjusted temperature are described in **Table 4** below.

**Table 4 – Work/Rest Schedule**

<b>Adjusted Temperature<sup>b</sup></b>	<b>Work/Rest Regimen Normal Work Ensemble<sup>c</sup></b>	<b>Work/Rest Regimen Impermeable Ensemble</b>
90°F (32.2°C) or above	After each 45 minutes of work	After each 15 minutes of work
87.5° - 90°F (30.8°-32.2°C)	After each 60 minutes of work	After each 30 minutes of work
82.5° - 87.5°F (28.1° - 30.8°C)	After each 90 minutes of work	After each 60 minutes of work
77.5° - 82.5°F (25.3° - 28.1°C)	After each 120 minutes of work	After each 90 minutes of work
72.5° - 77.5°F (30.8° - 32.2°C)	After each 150 minutes of work	After each 120 minutes of work

a. For work levels of 250 kilocalories/hour (Light-Moderate Type of Work)

b. Calculate the adjusted air temperature (ta adj) by using this equation: ta adj °F = ta °F + (13 x % sunshine). Measure air temperature (ta) with a standard mercury-in-glass thermometer, with the bulb shielded from

radiant heat. Estimate percent sunshine by judging what percent time the sun is not covered by clouds that are thick enough to produce a shadow. (100 percent sunshine = no cloud cover and a sharp, distinct shadow; 0 percent sunshine = no shadows.)

- c. A normal work ensemble consists of cotton coveralls or other cotton clothing with long sleeves and pants.
- d. The information presented above was generated using the information provided in the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV) Handbook.

In order to determine if the work rest cycles are adequate for the personnel and specific site conditions, additional monitoring of individual heart rates will be conducted during the rest cycle. To check the heart rate, count the radial pulse for 30 seconds at the beginning of the rest period. If the heart rate exceeds 110 beats per minute, shorten the next work period by one third and maintain the same rest period.

Additionally, one or more of the following control measures can be used to help control heat stress and are mandatory if any site worker has a heart rate (measure immediately prior to rest period) exceeding 115 beats per minute:

- Site workers will be encouraged to drink plenty of water and electrolyte replacement fluids throughout the day.
- On-site drinking water will be kept cool (50 to 60°F).
- A work regimen that will provide adequate rest periods for cooling down will be established, as required.
- All personnel will be advised of the dangers and symptoms of heat stroke, heat exhaustion, and heat cramps.
- Cooling devices, such as vortex tubes or cooling vests, should be used when personnel must wear impermeable clothing in conditions of extreme heat.
- Employees should be instructed to monitor themselves and co-workers for signs of heat stress and to take additional breaks as necessary.
- A shaded rest area must be provided. All breaks should take place in the shaded rest area.
- Employees must not be assigned to other tasks during breaks.
- Employees must remove impermeable garments during rest periods. This includes white Tyvek-type garments.

All employees must be informed of the importance of adequate rest, acclimation, and proper diet in the prevention of heat stress disorders.

## **8.5 Cold Stress**

Cold stress normally occurs in temperatures at or below freezing, or under certain circumstances, in temperatures of 40°F. Extreme cold for a short time may cause severe injury to exposed body surfaces or result in profound generalized cooling, causing death. Areas of the body that have high surface area-to-volume ratio, such as fingers, toes, and ears, are the most susceptible. Two factors influence the development of a cold weather injury: ambient temperature and the velocity of the wind. For instance, 10°F with a wind of 15 miles per hour (mph) is equivalent in chilling effect to still air at 18°F. An equivalent chill temperature chart relating the actual dry bulb temperature and wind velocity is presented in **Table 5** below.

**Table 5 – Wind Chill Temperature Chart**

Estimated Wind Speed (in mph)	Actual Temperature Reading (°F)											
	50	40	30	20	10	0	-10	-20	-30	-40	-50	-60
	Equivalent Chill Temperature (°F)											
Calm	50	40	30	20	10	0	-10	-20	-30	-40	-50	-60
5	48	37	27	16	6	-5	-15	-26	-36	-47	-57	-68
10	40	28	16	4	-9	-24	-33	-46	-58	-70	-83	-95
15	36	22	9	-5	-18	-32	-45	-58	-72	-85	-99	-112
20	32	18	4	-10	-25	-39	-53	-67	-82	-96	-110	-121
25	30	16	0	-15	-29	-44	-59	-74	-88	-104	-118	-133
30	28	13	-2	-18	-33	-48	-63	-79	-94	-109	-125	-140
35	27	11	-4	-20	-35	-51	-67	-82	-98	-113	-129	-145
40	26	10	-6	-21	-37	-53	-69	-85	-100	-116	-132	-148
(Wind speeds greater than 40 mph have little additional effect.)	<b>LITTLE DANGER</b> Maximum danger of false sense of security.				<b>INCREASING DANGER</b> Danger from freezing of exposed flesh within one minute.				<b>GREAT DANGER</b> Flesh may freeze within 30 seconds.			

Trench foot and immersion foot may occur at any point on this chart.

[This chart was developed by the U.S. Army Research Institute of Environmental Medicine, Natick, MA (Source: ACGIH Threshold Limit Values for Chemical Substances and Physical Agents)].

Local injury resulting from cold is included in the generic term frostbite. There are several degrees of tissue damage associated with frostbite. Frostbite of the extremities can be categorized into:

- *Frost Nip or Incipient Frostbite* - characterized by sudden blanching or whitening of skin.
- *Superficial Frostbite* - skin has a waxy or white appearance and is firm to the touch, but tissue beneath is resilient.
- *Deep Frostbite* - tissues are cold, pale, and solid; extremely serious injury.

Systemic hypothermia is caused by exposure to freezing or rapidly dropping temperature. It can be fatal. Its symptoms are usually exhibited in five stages: 1) shivering; 2) apathy, listlessness, sleepiness, and (sometimes) rapid cooling of the body to less than 95°F; 3) unconsciousness, glassy stare, slow pulse, and slow respiratory rate; 4) freezing of the extremities; and 5) death. Trauma sustained in freezing or sub-zero conditions requires special attention because an injured worker is predisposed to secondary cold injury. Special provisions must be made to prevent hypothermia and secondary freezing of damaged tissues in addition to providing for first aid treatment. To avoid cold stress, site personnel must wear protective clothing appropriate for the level of cold and physical activity. In addition to protective clothing, preventive safe work practices, additional training, and warming regimens may be utilized to prevent cold stress.

### **8.6 Safety Precautions for Cold Stress Prevention**

For air temperature of 0°F or less, mittens should be used to protect the hands. For exposed skin, continuous exposure should not be permitted when air speed and temperature results in a wind chill temperature of -25°F.

At air temperatures of 36°F or less, field personnel who become immersed in water or whose clothing becomes wet must be immediately provided with a change of clothing and be treated for hypothermia.

If work is done at normal temperature or in a hot environment before entering the cold, the field personnel must ensure that their clothing is not wet as a consequence of sweating. Wet field personnel must change into dry clothes prior to entering the cold area.



If the available clothing does not give adequate protection to prevent hypothermia or frostbite, work must be modified or suspended until adequate clothing is made available or until weather conditions improve.

Field personnel handling evaporative liquid (e.g., gasoline, alcohol, or cleaning fluids) at air temperatures below 40°F must take special precaution to avoid soaking of clothing or gloves with the liquids because of the added danger of cold injury due to evaporative cooling.

### ***8.7 Safe Work Practices***

Direct contact between bare skin and cold surfaces (< 20°F) should be avoided. Metal tool handles and/or equipment controls should be covered by thermal insulating material.

For work performed in a wind chill temperature at or below 10°F, workers should be under constant protective observation (buddy system). The work rate should be established to prevent heavy sweating that will result in wet clothing. For heavy work, rest periods must be taken in heated shelters and workers should be provided with an opportunity to change into dry clothing if needed.

Field personnel should be provided the opportunity to become accustomed to cold-weather working conditions and required protective clothing. Work should be arranged in such a way that sitting or standing still for long periods is minimized.

During the warming regimen (rest period), field personnel should be encouraged to remove outer clothing to permit sweat evaporation or to change into dry work clothing. Dehydration, or loss of body fluids, occurs insidiously in the cold environment and may increase susceptibility to cold injury due to a significant change in blood flow to the extremities. Fluid replacement with warm, sweet drinks and soups is recommended. The intake of coffee should be limited because of diuretic and circulatory effects.

### ***8.8 Biological Hazards***

Biological hazards may include poison ivy, snakes, thorny bushes and trees, ticks, mosquitoes, spiders, and other pests.

#### ***8.8.1 Tick Borne Diseases***

*Lyme Disease* - The disease commonly occurs in summer and is transmitted by the bite of infected ticks. "Hot spots" in the United States include New York, New Jersey, Pennsylvania, Massachusetts, Connecticut, Rhode Island, Minnesota, and Wisconsin.

*Erlichiosis* - The disease also commonly occurs in summer and is transmitted by the bite of infected ticks. "Hot spots" in the United States include New York, Massachusetts, Connecticut, Rhode Island, Minnesota, and Wisconsin.

These diseases are transmitted primarily by the deer tick, which is smaller and redder than the common wood tick. The disease may be transmitted by immature ticks, which are small and hard to see. The tick may be as small as a period on this page.

Symptoms of Lyme disease include a rash or a peculiar red spot, like a bull's eye, which expands outward in a circular manner. The victim may have headache, weakness, fever, a stiff neck, and swelling and pain in the joints, and eventually, arthritis. Symptoms of erlichiosis include muscle and joint aches, flu-like symptoms, but there is typically no skin rash.

*Rocky Mountain Spotted Fever (RMSF)* - This disease is transmitted via the bite of an infected tick. The tick must be attached 4 to 6 hours before the disease-causing organism (*Rickettsia rickettsii*) becomes reactivated and can infect humans. The primary symptom of RMSF is the sudden appearance of a moderate-to-high fever. The fever may persist for two to three weeks. The victim may also have a headache, deep muscle pain, and chills. A rash appears on the hands and feet on about the third day and eventually spreads to all parts of the body. For this reason, RMSF may be confused with measles or meningitis. The disease may cause death, if untreated, but if identified and treated promptly, death is uncommon.

*Control* - Tick repellent containing diethyltoluamide (DEET) should be used when working in tick-infested areas, and pant legs should be tucked into boots. In addition, workers should search the entire body every three or four hours for attached ticks. Ticks should be removed promptly and carefully without crushing, since crushing can squeeze the disease-causing organism into the skin. A gentle and steady pulling action should be used to avoid leaving the head or mouth parts in the skin. Hands should be protected with surgical gloves when removing ticks.

### **8.8.2 Poisonous Plants**

Poisonous plants may be present in the work area. Personnel should be alerted to its presence and instructed on methods to prevent exposure.

*Control* - The main control is to avoid contact with the plant, cover arms and hands, and frequently wash potentially exposed skin. Particular attention must be given to avoiding skin contact with objects or protective clothing that have touched the plants. Treat every surface that may have touched the plant as contaminated, and practice contamination avoidance. If skin contact is made, the area should be washed immediately with soap and water and observed for signs of reddening.

### **8.8.3 Snakes**

The possibility of encountering snakes exists, specifically for personnel working in wooded/vegetated areas. Snake venoms are complex and include proteins, some of which have enzymatic activity. The effects produced by venoms include neurotoxic effects with sensory, motor, cardiac, and respiratory difficulties; cytotoxic effects on red blood cells, blood vessels, heart muscle, kidneys, and lungs; defects in coagulation; and effects from local release of substances by enzymatic actions. Other noticeable effects of venomous snakebites include swelling, edema, and pain around the bite, and the development of ecchymosis (the escape of blood into tissues from ruptured blood vessels).

*Control* - To minimize the threat of snakebites, all personnel walking through vegetated areas must be aware of the potential for encountering snakes, and the need to avoid actions potentiating encounters, such as turning over logs, etc. If a snakebite occurs, an attempt should be made to safely identify the snake via size and markings. The victim must be transported to the nearest hospital within 30 minutes; first aid consists of applying a constriction band and washing the area around the wound to remove any unabsorbed venom.

### **8.8.4 Spiders**

Personnel may encounter spiders during work activities.

Two spiders are of concern, the black widow and the brown recluse. Both prefer dark sheltered areas such as basements, equipment sheds and enclosures, and around woodpiles or other scattered debris. The black widow is shiny black, approximately one inch long, and found throughout the United States. There is a distinctive red hourglass marking on the underside of the black widows body. The bite of a black widow is seldom fatal to healthy adults, but effects include respiratory distress, nausea, vomiting, and muscle spasms. The brown recluse is smaller than the black widow and gets its name from its brown coloring and behavior. The brown recluse is more prevalent in the southern United States. The brown recluse has a distinctive violin shape on the top of its body. The bite of the brown recluse is painful and the bite site ulcerates and takes many weeks to heal completely.

*Control* - To minimize the threat of spider bites, all personnel walking through vegetated areas must be aware of the potential for encountering these arachnids. Personnel need to avoid actions that may result in encounters, such as turning over logs, and placing hands in dark places such as behind equipment or in corners of equipment sheds or enclosures. If a spider bite occurs, the victim must be transported to the nearest hospital as soon as possible; first aid consists of applying ice packs and washing the area around the wound to remove any unabsorbed venom.

## ***8.9 Noise***

Exposure to noise over the OSHA action level can cause temporary impairment of hearing; prolonged and repeated exposure can cause permanent damage to hearing. The risk and severity of hearing loss increases with the intensity and duration of exposure to noise. In addition to damaging hearing, noise can impair voice communication, thereby increasing the risk of accidents on site.

*Control* - All personnel must wear hearing protection, with a Noise Reduction Rating (NRR) of at least 20, when noise levels exceed 85 dBA. When it is difficult to hear a co-worker at normal conversation distance, the noise level is approaching or exceeding 85 dBA, and hearing protection is necessary. All site personnel who may be exposed to noise must also receive baseline and annual audiograms and training as to the causes and prevention of hearing loss. Noise monitoring is discussed in Section 5.2, Noise Monitoring.

Whenever possible, equipment that does not generate excessive noise levels will be selected for this project. If the use of noisy equipment is unavoidable, barriers or increased distance will be used to minimize worker exposure to noise, if feasible.

## ***8.10 Spill Control***

All personnel must take every precaution to minimize the potential for spills during site operations. All on-site personnel shall immediately report any discharge, no matter how small, to the FS.

Spill control equipment and materials will be located on the site at locations that present the potential for discharge. All sorbent materials used for the cleanup of spills will be containerized and labeled appropriately. In the event of a spill, the FS will follow the provisions in Section 10.0, Emergency Procedures, to contain and control released materials and to prevent their spread to off-site areas.

## ***8.11 Sanitation***

Site sanitation will be maintained according to OSHA requirements.

### **8.11.1 Break Area**

Breaks must be taken in the SZ, away from the active work area after site personnel go through decontamination procedures. There will be no smoking, eating, drinking, or chewing gum or tobacco in any area other than the SZ.

### **8.11.2 Potable Water**

The following rules apply to all field operations:

- An adequate supply of potable water will be provided at each project site. Potable water must be kept away from hazardous materials or media, and contaminated clothing or equipment.
- Portable containers used to dispense drinking water must be capable of being tightly closed and must be equipped with a tap dispenser. Water must not be consumed directly from the container (drinking from the tap is prohibited) nor may it be removed from the container by dipping.
- Containers used for drinking water must be clearly marked and shall not be used for any other purpose.
- Disposable drinking cups must be provided. A sanitary container for dispensing cups and a receptacle for disposing of used cups is required.

### **8.11.3 Sanitary Facilities**

Access to facilities for washing before eating, drinking, or smoking, or alternate methods such as waterless hand-cleaner and paper towels will be provided.

### **8.11.4 Lavatory**

If permanent toilet facilities are not available, an appropriate number of portable chemical toilets will be provided. This requirement does not apply to mobile crews or to normally unattended site locations so long as employees at these locations have transportation immediately available to nearby toilet facilities.

## ***8.12 Emergency Equipment***

Adequate emergency equipment for the activities being conducted on site and as required by applicable sections of 29 CFR 1910 and 29 CFR 1926 will be on site prior to the commencement of project activities. Personnel will be provided with access to emergency equipment, including, but not limited to, the following:

- Fire extinguishers of adequate size, class, number, and location as required by applicable sections of 29 CFR 1910 and 1926;
- Industrial first aid kits of adequate size for the number of personnel on site; and
- Emergency eyewash and/or shower if required by operations being conducted on site.

## **8.13 Lockout/Tagout Procedures**

Only fully qualified and trained personnel will perform maintenance procedures. Before maintenance begins, lockout/tagout procedures per OSHA 29 CFR 1910.147 will be followed.

Lockout is the placement of a device that uses a positive means, such as lock, to hold an energy or material-isolating device such that the equipment cannot be operated until the lockout device is removed. If a device cannot be locked out, a tagout system shall be used.

Tagout is the placement of a warning tag on an energy or material isolating device indicating that the equipment controls may not be operated until the personnel who attached the tag remove the tag.

### ***8.14 Electrical Safety***

Electricity may pose a particular hazard to site workers due to the use of portable electrical equipment. If wiring or other electrical work is needed, a qualified electrician must perform it.

General electrical safety requirements include:

- All electrical wiring and equipment must be a type listed by Underwriters Laboratories (UL), Factory Mutual Engineering Corporation (FM), or other recognized testing or listing agency.
- All installations must comply with the National Electrical Safety Code (NESC), the National Electrical Code (NEC), or USCG regulations.
- Portable and semi-portable tools and equipment must be grounded by a multi-conductor cord having an identified grounding conductor and a multi-contact polarized plug-in receptacle.
- Tools protected by an approved system of double insulation, or its equivalent, need not be grounded. Double insulated tools must be distinctly marked and listed by UL or FM.
- Live parts of wiring or equipment must be guarded to prevent persons or objects from touching them.
- Electric wire or flexible cord passing through work areas must be covered or elevated to protect it from damage by foot traffic, vehicles, sharp corners, projections, or pinching.
- All circuits must be protected from overload.
- Temporary power lines, switchboxes, receptacle boxes, metal cabinets, and enclosures around equipment must be marked to indicate the maximum operating voltage.
- Plugs and receptacles must be kept out of water unless of an approved submersible construction.
- All extension cord outlets must be equipped with ground fault circuit interrupters (GFCI).
  
- Attachment plugs or other connectors must be equipped with a cord grip and be constructed to endure rough treatment.
- Extension cords or cables must be inspected prior to each use and replaced if worn or damaged. Cords and cables must not be fastened with staples, hung from nails, or suspended by bare wire.
- Flexible cords must be used only in continuous lengths without splice, with the exception of molded or vulcanized splices made by a qualified electrician.

### ***8.15 Lifting Safety***

Using proper lifting techniques may prevent back strain or injury. The fundamentals of proper lifting include:

- Consider the size, shape, and weight of the object to be lifted. A mechanical lifting device or additional persons must be used to lift an object if it cannot be lifted safely alone.
- The hands and the object should be free of dirt or grease that could prevent a firm grip.

- Gloves must be used, and the object inspected for metal slivers, jagged edges, burrs, or rough or slippery surfaces.
- Fingers must be kept away from points that could crush or pinch them, especially when putting an object down.
- Feet must be placed far enough apart for balance. The footing should be solid and the intended pathway should be clear.
- The load should be kept as low as possible, close to the body with the knees bent.
- To lift the load, grip firmly and lift with the legs, keeping the back as straight as possible.
- A worker should not carry a load that he or she cannot see around or over.
- When putting an object down, the stance and position are identical to that for lifting; the legs are bent at the knees, and the back is straight as the object is lowered.

### ***8.16 Ladder Safety***

When portable ladders are used for access to an upper landing surface, the ladder side rails shall extend at least 3 feet (9 m) above the upper landing surface to which the ladder is used to gain access; or, when such an extension is not possible because of the ladder's length, then the ladder shall be secured at its top to a rigid support that will not deflect, and a grasping device, such as a grabrail, shall be provided to assist employees in mounting and dismounting the ladder. In no case shall the extension be such that ladder deflection under a load would, by itself, cause the ladder to slip off its support.

- Ladders shall be maintained free of oil, grease, and other slipping hazards.
- Ladders shall not be loaded beyond the maximum intended load for which they were built, or beyond their manufacturer's rated capacity.
- Ladders shall be used only for the purpose for which they were designed.
- Non-self-supporting ladders shall be used at an angle such that the horizontal distance from the top support to the foot of the ladder is approximately one-quarter of the working length of the ladder (the distance along the ladder between the foot and the top support).
- Wood job-made ladders with spliced side rails shall be used at an angle such that the horizontal distance is one-eighth the working length of the ladder.
- Fixed ladders shall be used at a pitch no greater than 90 degrees from the horizontal, as measured to the back side of the ladder.
- Ladders shall be used only on stable and level surfaces unless secured to prevent accidental displacement.
- Ladders shall not be used on slippery surfaces unless secured or provided with slip-resistant feet to prevent accidental displacement. Slip-resistant feet shall not be used as a substitute for care in placing, lashing, or holding a ladder that is used upon slippery surfaces, including, but not limited to, flat metal or concrete surfaces that are constructed so they cannot be prevented from becoming slippery.
- Ladders placed in any location where they can be displaced by workplace activities or traffic, such as in passageways, doorways, or driveways, shall be secured to prevent accidental displacement, or a barricade shall be used to keep the activities or traffic away from the ladder.
- The area around the top and bottom of ladders shall be kept clear.
- The top of a non-self-supporting ladder shall be placed with the two rails supported equally unless it is equipped with a single support attachment.
- Ladders shall not be moved, shifted, or extended while occupied.
- Ladders shall have non-conductive side rails if they are used where the employee or the ladder could contact exposed energized electrical equipment.

- The top, top step, or the step labeled that it or any step above it should not be used as a step.
- Cross-bracing on the rear section of stepladders shall not be used for climbing unless the ladders are designed and provided with steps for climbing on both front and rear sections.
- Ladders shall be inspected by the HSM for visible defects on a daily basis and after any occurrence that could affect their safe use.
- Portable ladders with structural defects, such as, but not limited to, broken or missing rungs, cleats, or steps; broken or split rails; corroded components; or other faulty or defective components shall either be immediately marked in a manner that readily identifies them as defective or be tagged with “Do Not Use” or similar language and shall be withdrawn from service.
- Fixed ladders with structural defects, such as, but not limited to, broken or missing rungs, cleats, or steps; broken or split rails; or corroded components; shall be withdrawn from service.
- Ladder repairs shall restore the ladder to a condition meeting its original design criteria, before the ladder is returned to use.
- Single-rail ladders shall not be used.
- When ascending or descending a ladder, the user shall face the ladder.
- Each employee shall use at least one hand to grasp the ladder when progressing up and/or down the ladder.
- An employee shall not carry any object or load that could cause the employee to lose balance and fall.

### ***8.17 Traffic Safety***

The project site may be located adjacent to a public roadway where exposure to vehicular traffic is likely. Traffic may also be encountered as vehicles enter and exit the area. To minimize the likelihood of project personnel and activities being affected by traffic, the following procedures will be implemented.

Cones must be placed along the shoulder of the roadway starting 100 feet from the work area to alert passing motorists to the presence of personnel and equipment. A “Slow” or “Men Working” sign must be placed at the first cone. Barricades with flashing lights should be placed between the roadway and the work area.

During activities along a roadway, equipment will be aligned parallel to the roadway to the extent feasible, facing into the oncoming traffic so as to place a barrier between the work crew and the oncoming traffic. All crewmembers must remain behind the equipment and the traffic barrier.

All site personnel who are potentially exposed to vehicular traffic must wear an outer layer of orange warning garments, such as vests, jackets, or shirts. If work is performed in hours of dusk or darkness, workers will be outfitted with reflective garments either orange, white (including silver-coated reflective coatings or elements that reflect white light), yellow, fluorescent red-orange, or fluorescent yellow-orange.

The flow of traffic into and out of the adjacent business must be assessed, and precautions taken to warn motorists of the presence of workers and equipment. Where possible, vehicles should be aligned to provide physical protection of people and equipment.

## 9.0 SITE-SPECIFIC HAZARDS AND CONTROL MEASURES

### 9.1 Evaluation of Hazards

The evaluation of hazards is provided as a quick reference as to the known conditions for the Site, wherein the level of detail for each of the subsections is identified.

#### 9.1.1 Hazard Characteristics

Existing information for Site:

Detailed  Preliminary  None

Hazardous/Contaminated Material Form(s):

Solid  Liquid  Sludge  Gas  Vapor

Containment Type(s):

Drum  Tank  Pit  Debris  
 Pond  Lagoon Other:

Hazardous Material Characteristics:

Volatile  Corrosive  Reactive  Radioactive  
 Ignitable  Toxic  Unknown

Routes of Exposure:

Oral  Dermal  Eye  Respiratory

#### 9.1.2 Potential Health and Safety Hazards

Heat  Congested areas

Cold  General Construction

Confined space entry  Physical injury

Oxygen depletion  Electrical hazards

Asphyxiation  Handling and product transfer

Excavation  Fire

Cave-ins  Explosion

Falls, slippage  Biological Hazards

Plants – Poison Ivy, Poison Oak

Insects – Ticks

Insects – Mosquitoes

Insects – Bees and Wasps

Rats and Mice

Heavy equipment  Non-ionizing Radiation (i.e. UV, IR, etc.)

Other: Potential Ignition Hazard.

### 9.2 Field Activities, Hazards, and Control Procedures

The following task-specific safety analyses identify potential health, safety, and environmental hazards associated with each type of field activity. Because of the complex and changing nature of field projects, supervisors must continually inspect the site to identify hazards that may affect on-site personnel, the community, or the environment. The FS must be aware of these changing conditions and discuss them with the PM whenever these changes impact employee health, safety, the environment, or performance of the



project. The FS will keep on-site personnel informed of the changing conditions, and the PM will write and/or approve addenda or revisions to this HASP as necessary.

## **9.2.1 Mobilization/Construction Stakeout**

### Description of Tasks

Site mobilization will include establishing excavation locations, determining the location of utilities and other installations, and establishing work areas. Mobilization will also include setting up equipment and establishing a temporary site office. A break area will be set up outside of regulated work areas. Mobilization may involve clearing areas for the SZ and CRZ. During this initial phase, project personnel will walk the site to confirm the existence of anticipated hazards and identify safety and health issues that may have arisen since the writing of this plan.

### Hazard Identification

The hazards of this phase of activity are associated with heavy equipment operation, manual materials handling, installation of temporary on-site facilities, and manual site preparation.

Manual materials handling and manual site preparation may cause blisters, sore muscles, and joint and skeletal injuries; and may present eye, contusion, and laceration hazards. Installation of temporary field office and support facilities may expose personnel to electrical hazards, underground and overhead utilities, and physical injury due to the manual lifting and moving of materials. The work area presents slip, trip, and fall hazards from scattered debris and irregular walking surfaces. Rainy weather may cause wet, muddy, slick walking surfaces, and unstable soil. Freezing weather hazards include frozen, slick, and irregular walking surfaces.

Environmental hazards include plants, such as poison ivy and poison oak; aggressive fauna, such as ticks, fleas, mosquitoes, wasps, spiders, and snakes; weather, such as

sunburn, lightning, rain, and heat- or cold-related illnesses; and pathogens, such as rabies, Lyme disease, and blood-borne pathogens.

### Controls

Control procedures for these hazards are discussed in Section 8.0, General Safety Practices.

## **9.2.2 Demolition/Site Clearing**

### Description of Tasks

Site clearance will involve manual or mechanical removal of objects impeding access to the construction footprint. These obstructions are both natural and man-made items and will include, but not be limited to, fabricated metal and concrete structures, trees, vegetation, rubble, and miscellaneous trash/debris.

### Hazard Identification

Hazards associated with demolition and site clearance include personnel working in and around potentially unstable structures, or locations of potential contact with hazardous chemicals, utilities, and/or falling objects. This task will involve manual, as well as mechanical demolition/clearance efforts so exertion and equipment hazards exist.

## Controls

*PPE* – Personnel shall be protected from hazards of irritant and toxic plants and suitably instructed in the first aid treatment available.

*Preparatory Operations* – Prior to permitting employees to start demolition operations, an engineering survey shall be made, by a licensed Professional Engineer, of the structure to determine the stability of the structure. Any adjacent structure shall where personnel may be exposed shall also be similarly checked. The PO shall have in writing evidence that such a survey has been performed. All structural instabilities shall be shored or braced, under the supervision of a licensed Professional Engineer, prior to access by an FP.

*Utilities* – All electric, gas, water, steam, sewer, and other service lines shall be shut off, capped, or otherwise controlled, outside the building line before demolition work is started. In each case, any utility company that is involved shall be notified in advance. If it is necessary to maintain any power, water or other utilities during demolition, such lines shall be temporarily relocated, as necessary.

*Hazardous Substances* – It shall also be determined if any type of hazardous chemicals, gases, explosives, flammable materials, or similarly dangerous substances have been used in any pipes, tanks, or other equipment on the property. When the presence of any such substances is apparent or suspected, testing and purging shall be performed and the hazard eliminated before demolition is started.

*Falling Debris/Objects* – No material shall be dropped to any point lying outside the exterior walls of the structure unless the area is effectively protected. Access to the area where falling objects/debris may be encountered must be gated and controlled.

*Structural Collapse* – Structural or load supporting members on any floor shall not be cut or removed until all stories above such a floor have been demolished and removed. Walls, which are to serve as retaining walls against which debris will be piled, shall not be so used unless capable of safely supporting the imposed load. Mechanical equipment shall not be used on floors or working surfaces unless such floors or surfaces are not of sufficient strength to support the imposed load.

*Rollover Guards* – All equipment used in site clearing operations shall be equipped with rollover guards meeting the applicable requirements. In addition, rider-operated equipment shall be equipped with an overhead and rear canopy guard meeting the applicable requirements.

*Inspections* – During demolition, continuing inspections by a licensed Professional Engineer shall be made as the work progresses to detect hazards resulting from weakened or deteriorated floors, walls, or loosened material. No FP shall be permitted to work where such hazards exist until they are corrected by shoring, bracing, or other effective means.

## **9.2.3 Excavation and Cut/Fill Operations**

### **9.2.3.1 Excavation/Trenching**

#### Description of Tasks

This task includes the excavation of contaminated soils and superficial debris. Excavation depths vary across the site.

#### Hazard Identification

The hazards of this activity are associated with heavy equipment operation, subsurface intrusion, manual materials handling, stockpiling, and disposal. Subsurface intrusion

presents hazards associated with negotiating buried utilities, cave-ins of the excavated areas, and regress methods for personnel working inside the excavated areas. Disruption of contaminated soil also presents a health hazard.

### Controls

*Underground Utilities* – The estimated locations of utility installations, such as sewer, telephone, fuel, electric, water lines, or any other underground installations that reasonably may be expected to be encountered during the excavation work, shall be determined prior to opening an excavation. Utility companies or owners shall be contacted (“Call Before You Dig”) within established or customary local response times, advised of the proposed work, and asked to establish the location of the utility underground installations prior to the start of actual excavation.

When excavation operations approach the estimated location of underground installations, the exact location of the installations shall be determined by safe and acceptable means. While the excavation is open, underground installations shall be protected, supported, or removed, as necessary, to safeguard site personnel.

*Cave-Ins* – Project personnel in an excavation shall be protected from cave-ins by an adequate protective system, except when:

- Excavations are made entirely in stable rock or excavations are less than five feet in depth and examination of the ground by the SSO provides no indication of a potential cave-in.
- Protective systems shall have the capacity to resist, without failure, all loads that are intended or could reasonably be expected to be applied or transmitted to the system.

Project personnel shall be protected from excavated or other materials or equipment that could pose a hazard by falling or rolling into excavations. Protection shall be provided by placing and keeping such materials or equipment at least two feet from the edge of excavations, or by the use of retaining devices that are sufficient to prevent materials or equipment from falling or rolling into excavations, or by a combination of both if necessary.

Daily inspections of excavations, the adjacent areas, and protective systems shall be made by the SSO for evidence of a situation that could result in possible cave-ins, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions. An inspection shall be conducted by the SSO prior to the start of work and as needed throughout operations. Inspections shall also be made after every rainstorm or other hazard-increasing occurrence. These inspections are only required when project personnel exposure can be reasonably anticipated.

Where the SSO finds evidence of a situation that could result in a possible cave-in, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions, exposed personnel shall be removed from the hazardous area until the necessary precautions have been taken to ensure their safety.

*Excavation Egress* – A stairway, ladder, ramp, or other safe means of egress shall be located in trench excavations that are four feet or more in depth so as to require no more than 25 feet or lateral travel for project personnel.

## **9.2.3.2 Heavy Equipment Operation**

### Description of Tasks

Heavy equipment to be used for this task include, but are not limited to, excavators, dozers, dump trucks, and water sprayers (if required).

### Hazard Identification

The most common type of accident that occurs in material handling operations is the “caught between” situation when a load is being handled and an object gets caught between two moving parts of the equipment. Operation of the heavy construction equipment may produce harmful noise.

### Controls

*Equipment Inspection* – All vehicles in use shall be checked prior to operation to ensure that all parts, equipment, and accessories that affect safe operations are in proper operating condition and free from defects. All defects shall be corrected before the vehicle is placed in service.

*Ground Guides* – No personnel shall use any motor vehicle, earthmoving, or compacting equipment having an obstructed view to the rear, unless:

- The vehicle has a reverse signal alarm distinguishable from the surrounding noise level; or
- The vehicle is backed up only when an observer signals that it is safe to do so.

*Blocking* – Heavy machinery, equipment, or parts thereof that are suspended or held aloft shall be substantially blocked to prevent falling or shifting before employees are permitted to work under or between them.

*Noise* – Control measures for noise are addressed in Section 4.9.

*Traffic* – Control measures for traffic are addressed in Section 8.17.

## **9.2.3.3 Disturbance/Handling of Contaminated Material**

### Description of Tasks

After the contaminated soil is excavated from below the Site’s surface, the material will be stockpiled, dried, and either transported offsite or relocated and backfilled on site.

### Hazard Identification

The hazards associated with materials handling include contact of the contaminated material with project personnel, or cross contamination with other site soil.

### Controls

*Cross Contamination* – Following excavation, contaminated soil stockpiles will be placed on a structure constructed to separate the material from the site soil and collect any groundwater leachate. The material shall be covered to prevent storm water erosion or migration of contaminants through storm water.

*Air Monitoring* – Air and particulate monitoring will be conducted during soil excavation activities to assess the potential for exposure to airborne COCs. If the results of air monitoring indicate the presence of organic vapors or particulates in a concentration causing concern, personnel will upgrade to Level C protection. Refer to Section 5.1, Air Monitoring, for a description of air monitoring requirements and action levels. A description of each level of personal protection is included in Section 4.0, Personal Protective Equipment.

*Traffic* – Control measures for traffic are addressed in Section 8.17.

## **9.2.4 Drilling/Subsurface Intrusion Activities**

### Description of Tasks

This component of work includes the project tasks of delineation and sampling the petroleum hydrocarbon and metals impacted soil and groundwater, and an archeological survey.

### Hazard Identification

The primary physical hazards for this activity are associated with the use of soil boring and grouting equipment. The equipment is hydraulically powered and uses static force and dynamic percussion force to advance sampling and penetrating tubes.

Accidents can occur as a result of improperly placing the equipment on uneven or unstable terrain or failing to adequately secure the equipment prior to the start of operations. Overhead utility lines can create hazardous conditions if contacted by the equipment. Underground installations such as electrical lines, conduit, and product lines pose a significant hazard if contacted.

### Controls

*Geoprobe and Drill Rig Safety Procedures* - The operator of the equipment must possess required state or local licenses to perform such work. All members of the crew shall receive site-specific training prior to beginning work.

The operator is responsible for the safe operation of the rig, as well as the crew's adherence to the requirements of this HASP. The operator must ensure that all safety equipment is in proper condition and is properly used. The members of the crew must follow all instructions of the operator, wear all personal protective equipment, and be aware of all hazards and control procedures. The operator and crew must participate in the Daily Safety Meetings and be aware of all emergency procedures.

*Equipment Inspection* - Each day, prior to the start of work, the rig and associated equipment must be inspected by the operator. The following items must be inspected:

- Vehicle condition;
- Proper storage of equipment;
- Condition of all hydraulic lines;
- Fire extinguisher; and
- First aid kit.

*Equipment Set Up* - The drill rig must be properly blocked and leveled prior to raising the derrick. The wheels which remain on the ground must be chocked. The leveling jacks shall not be raised until the derrick is lowered. The rig shall be moved only after the derrick has been lowered.

All well sites will be inspected by the driller prior to the location of the rig to verify a stable surface exists. This is especially important in areas where soft, unstable terrain is common.

The drill rig must be properly blocked and leveled prior to raising the derrick. Blocking provides a more stable drilling structure by evenly distributing the weight of the rig. Proper blocking ensures that differential settling of the rig does not occur.

When the ground surface is soft or otherwise unstable, wooden blocks, at least 24" by 24" and 4" to 8" thick shall be placed between the jack swivels and the ground. The emergency brake shall be engaged, and the wheels that are on the ground shall be chocked.

*Rules for Intrusive Activity* - Before beginning any intrusive activity, the existence and location of underground pipe, conduit, electrical equipment, and other installations will be determined. This will be done, if possible, by contacting the appropriate client representative to mark the location of the lines. "Call Before You Dig" will verify the potential for encountering subsurface utilities. If the client's knowledge of the area is incomplete, an appropriate device, such as a magnetometer, will be used to locate the line.

Combustible gas readings of the general work area will be made regularly in areas where and/or during operations when the presence of flammable vapors or gases is suspected, such as during intrusive activities (see Section 5.1). Operations must be suspended and corrective action taken if the airborne flammable concentration reaches 10% of the LEL in the immediate area (a one-foot radius) of the point of drilling, or near any other ignition sources.

*Overhead Electrical Clearances* - If equipment is operated in the vicinity of overhead power lines, the power to the lines must be shut off or the equipment must be positioned and blocked such that no part, including cables, can come within the minimum clearances as follows:

<b>Nominal System Voltage</b>	<b>Minimum Required Clearance</b>
0-50kV	10 feet
51-100kV	12 feet
101-200kV	15 feet
201-300kV	20 feet
301-500kV	25 feet
501-750kV	35 feet
751-1,000kV	45 feet

When the drill rig is in transit, with the boom lowered and no load, the equipment clearance must be at least 4 feet for voltages less than 50kV, 10 feet for voltages of 50 kV to 345 kV, and 16 feet for voltages above 345 kV.

*Hoisting Operations* - Drillers should never engage the rotary clutch without watching the rotary table, and ensuring it is clear of personnel and equipment.

Unless the drawworks is equipped with an automatic feed control, the brake should not be left unattended without first being tied down.

Drill pipe, auger strings or casing should be picked up slowly. Drill pipe should not be hoisted until the driller is sure that the pipe is latched in the elevator, or the derrickman has signaled that he may safely hoist the pipe.

During instances of unusual loading of the derrick or mast, such as when making an unusually hard pull, only the driller should be on the rig floor; no one else should be on the rig or derrick.

The brakes on the drawworks of the drill rig should be tested by the driller each day. The brakes should be thoroughly inspected by a competent individual each week. A hoisting line with a load imposed should not be permitted to be in direct contact with any derrick member or stationary equipment, unless it has been specifically designed for line contact.

Workers should never stand near the borehole whenever any wire line device is being run. Hoisting control stations should be kept clean and controls labeled as to their functions.

*Catline Operations* - Only experienced workers will be allowed to operate the cathead controls. The kill switch must be clearly labeled and operational prior to operation of the catline. The cathead area must be kept free of obstructions and entanglements.

The operator should not use more wraps than necessary to pick up the load. More than one layer of wrapping is not permitted.

Personnel should not stand near, step over, or go under a cable or catline which is under tension.

Employees rigging loads on catlines shall:

- Keep out from under the load;
- Keep fingers and feet where they will not be crushed;
- Be sure to signal clearly when the load is being picked;
- Use standard visual signals only and not depend on shouting to coworkers; and
- Make sure the load is properly rigged, since a sudden jerk in the catline will shift or drop the load.

*Wire Rope* - When two wires are broken or rust or corrosion is found adjacent to a socket or end fitting, the wire rope shall be removed from service or re-socketed. Special attention shall be given to the inspection of end fittings on boom support, pendants, and guy ropes.

Wire rope removed from service due to defects shall be cut up or plainly marked as being unfit for further use as rigging.

Wire rope clips attached with U-bolts shall have the U-bolts on the dead or short end of the rope; the clip nuts shall be re-tightened immediately after initial load carrying use and at frequent intervals thereafter.

When a wedge socket fastening is used, the dead or short end of the wire rope shall have a clip attached to it or looped back and secured to itself by a clip; the clip shall not be attached directly to the live end.

Protruding ends of strands in splices on slings and bridles shall be covered or blunted. Except for eye splices in the ends of wires and for endless wire rope slings, wire rope used in hoisting, lowering, or pulling loads, shall consist of one continuous piece without knot or splice.

An eye splice made in any wire rope shall have not less than five full tucks. Wire rope shall not be secured by knots. Wire rope clips shall not be used to splice rope. Eyes in wire rope bridles, slings, or bull wires shall not be formed by wire clips or knots.

*Pipe/Auger Handling* - Pipe and auger sections shall be transported by cart or carried by two persons. Individuals should not carry auger or pipe sections without assistance.

Workers should not be permitted on top of the load during loading, unloading, or transferring of pipe or rolling stock.

Employees should be instructed never to try to stop rolling pipe or casing; they should be instructed to stand clear of rolling pipe.

Slip handles should be used to lift and move slips. Employees are not permitted to kick slips into position.

When pipe is being hoisted, personnel should not stand where the bottom end of the pipe could whip and strike them.

Pipe and augers stored in racks, catwalks or on flatbed trucks should be secured to prevent rolling.

## **9.2.5 Subsurface Chemical Sample Collection/Analysis**

### Description of Tasks

This sub-task consists of the collection of soil samples for subsequent field and laboratory analysis. The physical hazards of soil sampling are primarily associated with the sample collection methods, procedures utilized, and the environment itself.

### Hazard Identification

Incidental contact with COCs is the primary hazard associated with sampling the stabilized material. This contact may occur through the manipulation of sample media and equipment, manual transfer of media into sample containers, and proximity of operations to the breathing zone. The primary hazards associated with these sampling procedures are not potentially serious; however, other operations in the area, or the conditions under which samples must be collected, may present chemical and physical hazards. The hazards directly associated with sampling procedures are generally limited to strains/sprains and potential eye hazards. Potential chemical hazards may include contact with media containing site COCs and potential contact with chemicals used for equipment decontamination.

### Controls

*PPE* – To control dermal exposure during sampling activities, a minimum of Level D protection will be worn. If necessary, based on field observations and site conditions, air monitoring may be conducted during sediment sampling activities. If the results of air monitoring indicate the presence of airborne contaminants in a concentration causing concern, personnel will upgrade to Level C protection. Refer to Section 5.1, Air Monitoring, for a description of air monitoring requirements and action levels. A description of each level of personal protection is included in Section 4.0, Personal Protective Equipment.

## **9.2.6 UST Closure**

### **9.2.6.1 Working in Confined Spaces**

#### Description of Tasks

The project may involve the closure of USTs.

#### Hazard Identification

Closure activities may require the entrance into confined spaces to facilitate cleaning and removal of the USTs.

#### Controls

All personnel required to enter into confined or enclosed spaces must be instructed as to the nature of the hazards involved, the necessary precautions to be taken, and in the use of required protective and emergency equipment. The PO shall comply with all specific regulations that apply to work in dangerous or potentially dangerous areas.



## **9.2.6.2 Working with Compressed Air**

### Description of Tasks

The proposed method of purging the USTs includes the injection of compressed gas into the tank and attached piping network.

### Hazard Identification

Uncontrolled release of the highly pressured air can cause injury to FP during this task. Cylinders must also be properly managed to ensure they are not compromised during storage and/or use.

### Controls

*Pressure Regulation* – Compressed air used for cleaning purposes shall be reduced to less than 30 pounds per square inch and then only with effective chip guarding and personal protective equipment.

*Cylinder Storage* – Valve protection caps shall be in place and secured when compressed gas cylinders are transported, moved, or stored. Cylinder valves shall be closed when work is finished and when cylinders are empty or are moved. Compressed gas cylinders shall be secured in an upright position at all times, except if necessary for short periods of time when cylinders are actually being hoisted or carried. Cylinders shall be placed in a location where they cannot become part of an electrical circuit.

## **9.2.7 Decontamination**

All equipment will be decontaminated before leaving the site. Personnel involved in decontamination activities may be inadvertently exposed to skin contact with contaminated materials and chemicals brought from the EZ. Personnel involved in decontamination activities must wear PPE that is, at a minimum, one level below the level worn by personnel working in the EZ.

## **9.2.8 Demobilization**

Demobilization involves the removal of all tools, equipment, supplies, and vehicles brought to the site. The hazards of this phase of activity are associated with heavy equipment operation and manual materials handling.

Manual materials handling may cause blisters, sore muscles, and joint and skeletal injuries; and may present eye, contusion, and laceration hazards. Heavy equipment operation presents noise and vibration hazards, and hot surfaces, to operators. Personnel in the vicinity of heavy equipment operation may be exposed to physical hazards resulting in fractures, contusions, and lacerations and may be exposed to high noise levels. The work area presents slip, trip, and fall hazards from scattered debris and irregular walking surfaces. Rainy weather may cause wet, muddy, slick walking surfaces, and unstable soil. Freezing weather hazards include frozen, slick, and irregular walking surfaces.

Environmental hazards include plants, such as poison ivy and poison oak; aggressive fauna, such as ticks, fleas, mosquitoes, wasps, spiders, and snakes; weather, such as sunburn, lightning, rain, and heat-or cold-related illnesses; and pathogens, such as rabies, Lyme disease, and blood-borne pathogens.

Control procedures for these hazards are discussed in Section 8.0, General Safety Practices.

### 9.3 Chemical Hazards

The chemical hazards associated with site operations are related to inhalation, ingestion, and skin exposure to site COCs. Concentrations of airborne COCs during site tasks may be measurable and will require air monitoring during certain operations. Air monitoring requirements for site tasks are outlined in Section 5.1.

COCs at the site include heavy metals and SVOC compounds in soil.

The potential for inhalation of site COCs is low. The potential for dermal contact with soils containing site COCs during remedial operations is moderate. **Table 6** below lists the primary contaminants that have been identified at the Site and the media in which they are present.

Table 6 – List of Primary Contaminants

Media : Soil		
Analyte	Highest Concentration (mg/kg)	Applicable Monitoring Instrument
<b>SEMIVOLATILES</b>		
Benzo(a)anthracene	48	PID
Benzo(a)pyrene	38	PID
Benzo(b)fluoranthene	44	PID
Benzo(k)fluoranthene	19	PID
Chrysene	42	PID
Dibenzo(a,h)anthracene	5	PID
Indeno(1,2,3-cd)pyrene	18	PID
<b>TOTAL METALS</b>		
Lead	257	NA
Mercury	1.04	NA
Selenium	5.28	NA

## 10.0 EMERGENCY PROCEDURES

### 10.1 General

Prior to the start of operations, the work area will be evaluated for the potential for fire, contaminant release, or other catastrophic event. Unusual conditions or events, activities, chemicals, and conditions will be reported to the FS/SSO immediately.

The FS/SSO will establish evacuation routes and assembly areas for the site. All personnel entering the site will be informed of this route and the assembly area.

### 10.2 Emergency Response

If an incident occurs, the following steps will be taken:

- The FS/SSO will evaluate the incident and assess the need for assistance and/or evacuation;
- The FS/SSO will call for outside assistance as needed;
- The FS/SSO will ensure the PM is notified promptly of the incident; and
- The FS/SSO will take appropriate measures to stabilize the incident scene.

### **10.2.1 Fire**

In the case of a fire at the site, the FS/SSO will assess the situation and direct fire-fighting activities. The FS/SSO will ensure that the PM is immediately notified of any fires. Site personnel will attempt to extinguish the fire with available extinguishers, if safe to do so. In the event of a fire that site personnel are unable to safely extinguish with one fire extinguisher, the local fire department will be summoned.

### **10.2.2 Contaminant Release**

In the event of a contaminant release, the following steps will be taken:

- Notify FS/SSO immediately;
- Evacuate immediate area of release;
- Conduct air monitoring to determine needed level of PPE; and
- Don required level of PPE and prepare to implement control procedures.

The FS/SSO has the authority to commit resources as needed to contain and control released material and to prevent its spread to off-site areas.

## ***10.3 Medical Emergency***

All employee injuries must be promptly reported to the SSO/FS, who will:

- Ensure that the injured employee receives prompt first aid and medical attention;
- In emergency situations, the worker is to be transported by appropriate means to the nearest urgent care facility (normally a hospital emergency room); and
- If the injured person is a SESI employee, notify SESI at 973-808-9050.

### **10.3.1 Emergency Care Steps**

Survey the scene. Determine if it is safe to proceed. Try to determine if the conditions that caused the incident are still a threat. Protect yourself from exposure before attempting to rescue the victim.

- Do a primary survey of the victim. Check for airway obstruction, breathing, and pulse. Assess likely routes of chemical exposure by examining the eyes, mouth, nose, and skin of the victim for symptoms.
- Phone Emergency Medical Services (EMS). Give the location, telephone number used, caller's name, what happened, number of victims, victim's condition, and help being given.
- Maintain airway and perform rescue breathing as necessary.
- Perform CPR as necessary.
- Do a secondary survey of the victim. Check vital signs and do a head-to-toe exam.

Treat other conditions as necessary. If the victim can be moved, take him/her to a location away from the work area where EMS can gain access.

## ***10.4 First Aid - General***

All persons must report any injury or illness to their immediate supervisor or the FS. Trained personnel will provide first aid. Injuries and illnesses requiring medical treatment must be documented. The FS and SSO must fill out an accident/incident report as soon as emergency conditions no longer exist and first aid and/or medical treatment has been ensured. The report must be completed and submitted to the PM within 24 hours after the incident.

If first-aid treatment is required, first aid kits are kept at the CRZ. If treatment beyond first aid is required, the injured person(s) should be transported to the medical facility. If the injured person is not ambulatory or shows any sign of not being in a comfortable and stable condition for transport, then an ambulance/paramedics should be summoned. If there is any doubt as to the injured worker's condition, it is best to let the local paramedic or ambulance service examine and transport the worker.

### **10.4.1 First Aid - Inhalation**

Any employee complaining of symptoms of chemical overexposure as described in Section 4, General Site Safety Procedures, will be removed from the work area and transported to the designated medical facility for examination and treatment.

### **10.4.2 First Aid - Ingestion**

Call EMS and consult a poison control center for advice. If available, refer to the MSDS for treatment information. If the victim is unconscious, keep them on their side and clear the airway if vomiting occurs.

### **10.4.3 First Aid - Skin Contact**

Project personnel who have had skin contact with contaminants will, unless the contact is severe, proceed through the CRZ, to the wash area. Personnel will remove any contaminated clothing, and then flush the affected area with water for at least 15 minutes. The worker should be transported to the medical facility if he/she shows any sign of skin reddening, irritation, or if he/she requests a medical examination.

### **10.4.4 First Aid - Eye Contact**

Project personnel who have had contaminants splashed in their eyes or who have experienced eye irritation while in the EZ, must immediately proceed to the eyewash station in the CRZ. Do not decontaminate prior to using the eyewash. Remove whatever protective clothing is necessary to use the eyewash. Flush the eye with clean running water for at least 15 minutes. Arrange prompt transport to the designated medical facility.

## ***10.5 Reporting Injuries, Illnesses, and Safety Incidents***

Injuries and illnesses, however minor, will be reported to the FS immediately. The FS will complete an injury report and submit it to the HSM, and the PM by end of shift.

## ***10.6 Emergency Information***

The means to summon local public response agencies such as police, fire, and ambulance will be reviewed in the daily safety meeting. These agencies are identified in **Table 7** below.

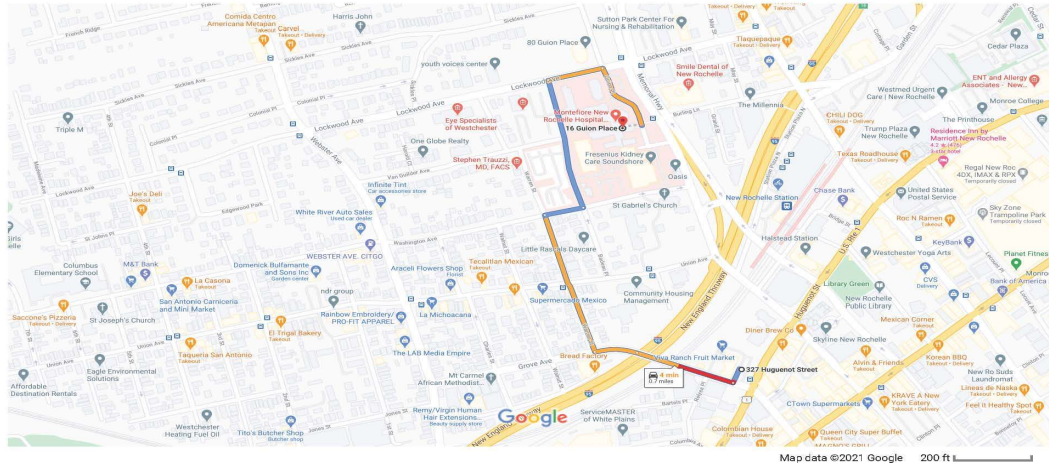
**Table 7 – Emergency  
Contacts**

<b>Local Emergency Contacts</b>	<b>Telephone No.</b>
EMERGENCY	911
New Rochelle Montefiore Hospital	(914) 632-5000
Police Emergency	911
Rescue Squad	911
Ambulance	911
<b>Miscellaneous Contacts</b>	<b>Telephone No.</b>
N.Y. Poison Control Center	(800) 222-1222
National Response Center and Terrorist Hotline	(800) 424-8802
Center for Disease Control	(800) 311-3435
Utility Mark-Out	(800) 962-7962

### **10.6.1 Directions to Hospital**

New Rochelle Montefiore Hospital  
16 Guion Pl  
New Rochelle, NY 10801  
(914) 632-5000

Google Maps 327 Huguenot Street, New Rochelle, NY to 16 Guion Place, New Rochelle, NY Drive 0.7 mile, 4 min



327 Huguenot St  
New Rochelle, NY 10801

- ↑ 1. Head south toward Centre Ave  
6 s (98 ft)
- Continue on Centre Ave to Warren St  
1 min (0.1 mi)
- ↘ 2. Turn right onto Centre Ave  
0.1 mi
- ↑ 3. Continue onto Grove Ave  
230 ft
- Continue on Warren St. Take Glover Johnson Pl to Lockwood Ave  
2 min (0.4 mi)
- ↘ 4. Turn right onto Warren St  
0.2 mi
- ↘ 5. Turn right at the 2nd cross street onto Washington Ave  
213 ft
- ↙ 6. Turn left onto Glover Johnson Pl  
0.2 mi
- ↘ 7. Turn right onto Lockwood Ave  
20 s (302 ft)
- ↘ 8. Turn right at the 1st cross street onto Guion Pl  
Destination will be on the right  
43 s (449 ft)

[https://www.google.com/maps/dir/327+Huguenot+Street,+New+Rochelle,+NY/16+Guion+Place,+New+Rochelle,+NY/@40.9111584,-73.7891491,17z/...](https://www.google.com/maps/dir/327+Huguenot+Street,+New+Rochelle,+NY/16+Guion+Place,+New+Rochelle,+NY/@40.9111584,-73.7891491,17z/) 1/2

## 11.0 LOGS, REPORTS, AND RECORD KEEPING

The following is a summary of required health and safety logs, reports, and record keeping for the operations at the subject site.

### 11.1 HASP Field Change Request

To be completed for initiating a change to the HASP. PM approval is required. The original will be kept in the project file (See Attachment 3).

### 11.2 Medical and Training Records

The HSM must obtain and keep a log of personnel meeting appropriate training and medical qualifications for the site work. The log will be kept in the project file. Each company's Human Resources Department will maintain medical records, in accordance with 29 CFR 1910.1020.

### ***11.3 Exposure Records***

Any personnel monitoring results, laboratory reports, calculations, and air sampling data sheets are part of an employee exposure record. These records will be kept in accordance with 29 CFR 1910.1020. For SESI employees, the originals will be sent to the Human Resources Manager. For subcontractor employees, the original file will be sent to the subcontractor employer with a copy maintained in the SESI project file.

### ***11.4 Accident/Incident Report***

Any accident/incident reports must be completed following procedures given in Section 10.5 of this HASP. The originals will be sent to the HSM for maintenance. A copy of the forms will be kept in the project file. (See Attachment 4)

### ***11.5 OSHA Form 200***

An OSHA Form 200 (Log of Occupational Injuries and Illnesses) will be kept at the project site. All recordable injuries or illnesses will be recorded on this form. At the end of the project, the original will be sent to the Human Resources Manager for maintenance. Subcontractor employees must also meet the requirements of maintaining an OSHA 200 Form. The accident/incident report meets the requirements of the OSHA Form 101 (Supplemental Record), which must be maintained with the OSHA Form 200 for all recordable injuries or illnesses.

### ***11.6 On-Site Health and Safety Field Logbooks***

The HSM or designee will maintain an on-site health and safety log book in which daily Site conditions, activities, personnel, and significant events will be recorded. Calibration records and personnel monitoring results, if available, will also be recorded in the field logbook. The original logbook will be kept in the project file.

Whenever any personnel monitoring is conducted onsite, the monitoring results will be noted in the filed logbook. These will become part of the exposure records file and will be maintained by the HSM.

A signatory page is included (See Attachment 5) and is to be signed by those working on and/or visiting the site.

### ***11.7 Material Safety Data Sheets***

Material Safety Data Sheets (MSDS) will be obtained and kept on file at the project site for each hazardous chemical brought to, use, or stored at the Site (See Attachment 6).

## **12.0 COVID-19 RESPONSE ACTION PLAN**

SESI is concerned with the safety and well-being of its employees, vendors, subcontractors, and others with access to its offices and job sites, with particular emphasis on the unique challenges posed by COVID-19.

SESI has established the following protocols in keeping with the recommendations of the CDC and other sources including State Governor Executive Orders for work taking place on construction sites.

We request that all SESI employees, vendors, and subcontractors help with our prevention efforts while at work.

In order to minimize the spread of COVID-19, we must all cooperate in doing the following:

- Frequently wash your hands with soap and water for at least 20 seconds. When soap and running water are unavailable, use an alcohol-based hand rub with at least 60% alcohol. Always wash hands that are visibly soiled.
- Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow.
- Discourage handshaking, avoid touching your eyes, nose, or mouth with unwashed hands.
- Limit the sharing of tools, machinery, equipment, phones, desks, and computers.
- Wear cloth face coverings on all construction sites.
- Avoid close contact with people who are sick.
- Employees who have symptoms (i.e., fever, cough, or shortness of breath) should notify their supervisor and stay home—DO NOT GO TO WORK.
- Sick employees should follow CDC-recommended steps. Employees should not return to work until the criteria to discontinue home isolation are met, in consultation with healthcare providers and state and local health departments.

The following are the specific jobsite protocols and response actions to be taken in the event someone on site has been in contact with, or has themselves, the COVID-19 virus:

#### **OFFICE/JOBSITE PROTOCOL**

- If an employee/worker exhibits COVID-19 symptoms, the employee/worker must remain at home until he or she is symptom free for 72 hours (3 full days) without the use of fever-reducing or other symptom-altering medicines (e.g. acetaminophen, cough suppressants). SESI will similarly require an employee or worker that reports to work with symptoms to return home until they are symptom free for 72 hours (3 full days).
- Limit person to person contact, and when unavoidable, maintain CDC distancing guidelines.
- Avoid eating lunch in groups.
- Avoid in-person meetings if possible. If an in-person meeting is necessary, conduct it in a well-ventilated area with enough space for attendees to distance themselves from one another. Field jobsite meetings should be conducted in smaller group meetings (no more than 5 persons when possible) versus one large meeting.
- Only workers necessary to the execution of the work should be at the jobsites. No non-essential visitors should be permitted at the worksite.

#### **RESPONSE ACTION TRIGGER EVENTS:**

- an employee/worker at work has tested positive for COVID-19
- an employee/worker at work has suspected, but unconfirmed, case of COVID-19
- an employee/worker self-reported that they came in contact with someone who had a presumptive positive case of COVID-19
- an employee/worker has been exposed to the virus but only found out after they have interacted with others

#### **RESPONSE ACTIONS:**

- Upon occurrence of any of the Trigger Events above, employees/subcontractors shall notify SESI Management about the suspected employee/worker infected with, or exposed to, COVID-19.



- SESI Management will investigate the incident to confirm the report is valid.
- Employees/Subcontractors shall investigate their respective infected employee(s) and report the following to SESI Management and HR:
  - Identify all individuals who worked in proximity (six feet) of the infected employee/worker,
  - Employee(s)/Worker(s) infected with the COVID-19 virus, and employee(s)/worker(s) that came in contact with the infected employee/worker shall be sent home for a period of 14 days,
  - Do not identify the infected employee/worker by name to avoid violation of privacy/confidentiality laws, and,
  - Keep SESI Management informed of progress and updates.
- If an infected person was in the office, SESI will clean and disinfect common areas and surfaces, in accordance with CDC recommendations.
- SESI Management will notify affected employees/workers of the Trigger Event and instruct them to take the response actions above.
- **SESI Management policy requires written documentation from a health care professional, that confirmed infected employees can return to work.**

Except for circumstances in which SESI is legally required to report workplace occurrences of communicable disease, the confidentiality of all medical conditions will be maintained in accordance with applicable law and to the extent practical under the circumstances. When required, the number of persons who will be informed of an employee's/worker's condition will be kept at the minimum needed to appropriately notify other potentially affected employees/workers of Trigger Events and to attempt to minimize the potential for transmission of the virus.

**ATTACHMENT 1**  
**AIR MONITOR LOG**

### Air Monitoring: Sample Collection and Analysis

Date & Time of Monitoring	Task / Operation Being	Substance(s)/ Hazard(s) Being	Monitoring Location	Type/Method of Monitoring	Monitoring Results	Exposure Limits	Required Action

**ATTACHMENT 2**

**OSHA POSTER**

# Job Safety and Health

## It's the law!

**OSHA**<sup>®</sup>  
Occupational Safety  
and Health Administration  
U.S. Department of Labor

### EMPLOYEES:

- You have the right to notify your employer or OSHA about workplace hazards. You may ask OSHA to keep your name confidential.
- You have the right to request an OSHA inspection if you believe that there are unsafe and unhealthful conditions in your workplace. You or your representative may participate in that inspection.
- You can file a complaint with OSHA within 30 days of retaliation or discrimination by your employer for making safety and health complaints or for exercising your rights under the *OSH Act*.
- You have the right to see OSHA citations issued to your employer. Your employer must post the citations at or near the place of the alleged violations.
- Your employer must correct workplace hazards by the date indicated on the citation and must certify that these hazards have been reduced or eliminated.
- You have the right to copies of your medical records and records of your exposures to toxic and harmful substances or conditions.
- Your employer must post this notice in your workplace.
- You must comply with all occupational safety and health standards issued under the *OSH Act* that apply to your own actions and conduct on the job.

### EMPLOYERS:

- You must furnish your employees a place of employment free from recognized hazards.
- You must comply with the occupational safety and health standards issued under the *OSH Act*.

This free poster available from OSHA –  
*The Best Resource for Safety and Health*



Free assistance in identifying and correcting hazards or complying with standards is available to employers, without citation or penalty, through OSHA-supported consultation programs in each state.

**1-800-321-OSHA (6742)**  
[www.osha.gov](http://www.osha.gov)

OSHA 3165-02 2012R



**ATTACHMENT 3**  
**FILED CHANGE REQUEST FORM**



**ATTACHMENT 4**  
**INJURY REPORT FORM**



# OSHA's Form 301 Injury and Illness Incident Report

**Attention:** This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.



Form approved OMB no. 1218-0176

This *Injury and Illness Incident Report* is one of the first forms you must fill out when a recordable work-related injury or illness has occurred. Together with the *Log of Work-Related Injuries and Illnesses* and the accompanying *Summary*, these forms help the employer and OSHA develop a picture of the extent and severity of work-related incidents.

Within 7 calendar days after you receive information that a recordable work-related injury or illness has occurred, you must fill out this form or an equivalent. Some state workers' compensation, insurance, or other reports may be acceptable substitutes. To be considered an equivalent form, any substitute must contain all the information asked for on this form.

According to Public Law 91-596 and 29 CFR 1904, OSHA's recordkeeping rule, you must keep this form on file for 5 years following the year to which it pertains.

If you need additional copies of this form, you may photocopy and use as many as you need.

### Information about the employee

- 1) Full name \_\_\_\_\_
- 2) Street \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_
- 3) Date of birth \_\_\_\_/\_\_\_\_/\_\_\_\_
- 4) Date hired \_\_\_\_/\_\_\_\_/\_\_\_\_
- 5)  Male  
 Female

### Information about the physician or other health care professional

- 6) Name of physician or other health care professional \_\_\_\_\_

- 7) If treatment was given away from the worksite, where was it given?  
Facility \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

- 8) Was employee treated in an emergency room?  
 Yes  
 No
- 9) Was employee hospitalized overnight as an inpatient?  
 Yes  
 No

### Information about the case

- 10) Case number from the Log \_\_\_\_\_ (Transfer the case number from the Log after you re-oid the case.)
- 11) Date of injury or illness \_\_\_\_/\_\_\_\_/\_\_\_\_
- 12) Time employee began work \_\_\_\_\_ AM / PM
- 13) Time of event \_\_\_\_\_ AM / PM  Check if time cannot be determined

- 14) What was the employee doing just before the incident occurred? Describe the activity, as well as the tools, equipment, or material the employee was using. Be specific. *Examples:* "Climbing a ladder while carrying roofing materials"; "spraying chlorine from hand sprayer"; "daily computer key-entry."

- 15) What happened? Tell us how the injury occurred. *Examples:* "When ladder slipped on wet floor, worker fell 20 feet"; "Worker was sprayed with chlorine when gasket broke during replacement"; "Worker developed soreness in wrist over time."

- 16) What was the injury or illness? Tell us the part of the body that was affected and how it was affected; be more specific than "hurt," "pain," or "sore." *Examples:* "strained back"; "chemical burn, hand"; "carpal tunnel syndrome."

- 17) What object or substance directly harmed the employee? *Examples:* "concrete floor"; "chlorine"; "radial arm saw." If this question does not apply to the incident, leave it blank.

- 18) If the employee died, when did death occur? Date of death \_\_\_\_/\_\_\_\_/\_\_\_\_

Completed by \_\_\_\_\_

Title \_\_\_\_\_

Phone (\_\_\_\_) \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Public reporting burden for this collection of information is estimated to average 22 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Persons are not required to respond to the collection of information unless it displays a current valid OMB control number. If you have any comments about this estimate or any other aspect of this data collection, including suggestions for reducing the burden, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3654, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

# Log of Work-Related Injuries and Illnesses

You must record information about every work-related death and about every work-related injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid. You must also record significant work-related injuries and illnesses that are diagnosed by a physician or licensed health care professional. You must also record work-related injuries and illnesses that meet any of the specific recording criteria listed in 29 CFR Part 1904.8 through 1904.12. Feel free to use two lines for a single case if you need to. You must complete an Injury and Illness Incident Report (OSHA Form 301) or equivalent form for each injury or illness recorded on this form. If you're not sure whether a case is recordable, call your local OSHA office for help.

**Attention:** This form contains information relating to employee health and must be used in a manner that protects the confidentiality of employees to the extent possible while the information is being used for occupational safety and health purposes.

Establishment name \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

Year 20\_\_-\_\_  
U.S. Department of Labor  
Occupational Safety and Health Administration  
Form approved OMB no. 1218-0176

Identify the person		Describe the case			Classify the case			Enter the number of days the injured or ill worker was:		Check the "injury" column or choose one type of illness:							
(A) Case no.	(B) Employee's name	(C) Job title (e.g., Welder)	(D) Date of injury or onset of illness	(E) Where the event occurred (e.g., Loading dock north end)	(F) Describe injury or illness, parts of body affected, and object/substance that directly injured or made person ill (e.g., Second degree burns on right forearm from acetone torch)	(G) Death	(H) Days away from work	(I) Job transfer or restriction	(J) Other recordable cases	(K) Away from work	(L) On job transfer or restriction	(M) L injury	(1) Skin disorder	(2) Respiratory condition	(3) Poisoning	(4) Hearing loss	(5) All other illnesses
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____ days	_____ days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			month/day			<input type="checkbox"/>											

# Summary of Work-Related Injuries and Illnesses

All establishments covered by Part 1904 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entire, from every page of the Log. If you had no cases, write "0."

Employers, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR Part 1904.35, in OSHA's recordkeeping rule, for further details on the access provisions for these forms.

## Number of Cases

Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
(G) _____	(H) _____	(I) _____	(J) _____

## Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
(K) _____	(L) _____

## Injury and Illness Types

Total number of ... (M)	(1) Injuries	(4) Poisonings
	(2) Skin disorders	(5) Hearing loss
	(3) Respiratory conditions	(6) All other illnesses

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Public reporting burden for this collection of information is estimated to average 58 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

### Establishment information

Your establishment name \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

ZIP \_\_\_\_\_

Industry description (e.g., *Manufacture of motor truck trailers*) \_\_\_\_\_

Standard Industrial Classification (SIC), if known (e.g., 3-715) \_\_\_\_\_

OR \_\_\_\_\_

North American Industrial Classification (NAICS), if known (e.g., 336212) \_\_\_\_\_

**Employment information** (If you don't have these figures, see the Worksheet on the back of this page to estimate.)

Annual average number of employees \_\_\_\_\_

Total hours worked by all employees last year \_\_\_\_\_

### Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.

Company executive \_\_\_\_\_ Title \_\_\_\_\_  
 ( \_\_\_\_\_ ) \_\_\_\_\_ / /  
 Name \_\_\_\_\_ Date \_\_\_\_\_

**ATTACHMENT 5**  
**SIGNATORY PAGE**





**Attachment 6**  
**Material Safety Data Sheets**

## SAFETY DATA SHEET

Version 4.10  
Revision Date 09/23/2016  
Print Date 06/28/2019

---

**1. PRODUCT AND COMPANY IDENTIFICATION****1.1 Product identifiers**

Product name : Selenium

Product Number : 229865  
Brand : Aldrich  
Index-No. : 034-001-00-2

CAS-No. : 7782-49-2

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Laboratory chemicals, Synthesis of substances

**1.3 Details of the supplier of the safety data sheet**

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052

**1.4 Emergency telephone number**

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

---

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity, Oral (Category 3), H301  
Acute toxicity, Inhalation (Category 3), H331  
Specific target organ toxicity - repeated exposure (Category 2), H373  
Chronic aquatic toxicity (Category 4), H413

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 GHS Label elements, including precautionary statements**

Pictogram



Signal word

Danger

Hazard statement(s)

H301 + H331  
H373  
H413

Toxic if swallowed or if inhaled  
May cause damage to organs through prolonged or repeated exposure.  
May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

P260  
P264  
P270  
P271  
P273

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.



### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name : Benzo[a]pyrene

Product Number : 48564

Brand : Supelco

Index-No. : 601-032-00-3

CAS-No. : 50-32-8

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

#### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832

Fax : +1 800-325-5052

#### 1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin sensitisation (Category 1), H317

Germ cell mutagenicity (Category 1B), H340

Carcinogenicity (Category 1B), H350

Reproductive toxicity (Category 1B), H360

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H317 : May cause an allergic skin reaction.

H340 : May cause genetic defects.

H350 : May cause cancer.

H360 : May damage fertility or the unborn child.

H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 : Obtain special instructions before use.

P202 : Do not handle until all safety precautions have been read and

P261	understood.
P272	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273	Contaminated work clothing should not be allowed out of the workplace.
P280	Avoid release to the environment.
	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Synonyms : 3,4-Benzpyrene  
3,4-Benzopyrene  
Benzo[def]chrysene  
benzo[pqr]tetrathene

Formula : C<sub>20</sub>H<sub>12</sub>  
Molecular weight : 252.31 g/mol  
CAS-No. : 50-32-8  
EC-No. : 200-028-5  
Index-No. : 601-032-00-3

#### Hazardous components

Component	Classification	Concentration
<b>Benzo[a]pyrene</b>	Skin Sens. 1; Muta. 1B; Carc. 1B; Repr. 1B; Aquatic Acute 1; Aquatic Chronic 1; H317, H340, H350, H360, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Flush eyes with water as a precaution.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

---

### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

No data available

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

No data available

---

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

---

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Store at room temperature.

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
	Remarks	Cancer		
		Substances for which there is a Biological Exposure Index or Indices (see BEI® section), see BEI® for Polycyclic Aromatic Hydrocarbons (PAHs)		
		Exposure by all routes should be carefully controlled to levels as low		

		as possible. Suspected human carcinogen		
		Cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section), see BEI® for Polycyclic Aromatic Hydrocarbons (PAHs) Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
Benzo[a]pyrene	50-32-8	TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		1910.1002 As used in §1910.1000 (Table Z-1), coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatilize from the distillation residues of coal, petroleum (excluding asphalt), wood, and other organic matter. Asphalt (CAS 8052-42-4, and CAS 64742-93-4) is not covered under the 'coal tar pitch volatiles' standard OSHA specifically regulated carcinogen		
		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar products. cyclohexane-extractable fraction See Appendix C See Appendix A		
		TWA	0.2 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		1910.1002 As used in §1910.1000 (Table Z-1), coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatilize from the distillation residues of coal, petroleum (excluding asphalt), wood, and other organic matter. Asphalt (CAS 8052-42-4, and CAS 64742-93-4) is not covered under the 'coal tar pitch volatiles' standard OSHA specifically regulated carcinogen		
		TWA	0.1 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar products. cyclohexane-extractable fraction See Appendix C See Appendix A		
		TWA	0.2 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		PEL	0.2 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		PEL	0.2 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

#### Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological	Basis
-----------	---------	------------	-------	------------	-------

				specimen	
	-	1-Hydroxypyrene		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			
		1-Hydroxypyrene		Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			

## 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- |               |                   |
|---------------|-------------------|
| a) Appearance | Form: solid       |
| b) Odour      | No data available |

c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	Melting point/range: 177 - 180 °C (351 - 356 °F)
f) Initial boiling point and boiling range	495 °C (923 °F)
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	1.35 g/cm <sup>3</sup>
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	log Pow: 5.97
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

## 9.2 Other safety information

No data available

---

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

---

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

LD50 Subcutaneous - Rat - 50 mg/kg

**Skin corrosion/irritation**

Skin - Mouse

Result: Mild skin irritation

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

Chronic exposure may cause dermatitis.

**Germ cell mutagenicity**

May alter genetic material.

In vivo tests showed mutagenic effects

**Carcinogenicity**

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC: 1 - Group 1: Carcinogenic to humans (Benzo[a]pyrene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Benzo[a]pyrene)

OSHA: OSHA specifically regulated carcinogen (Benzo[a]pyrene)

**Reproductive toxicity**

May cause congenital malformation in the fetus.

Presumed human reproductive toxicant

May cause reproductive disorders.

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: Not available

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting

---

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 0.25 mg/l - 48 h

Toxicity to algae EC50 - Pseudokirchneriella subcapitata (green algae) - 0.02 mg/l - 72 h

**12.2 Persistence and degradability**

**12.3 Bioaccumulative potential**

Bioaccumulation Lepomis macrochirus (Bluegill) - 48 h - 0.0005 mg/l

Bioconcentration factor (BCF): 3,208

**12.4 Mobility in soil**

No data available

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

---

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

### DOT (US)

UN number: 3077      Class: 9      Packing group: III  
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Benzo[a]pyrene)  
Reportable Quantity (RQ): 1 lbs  
Poison Inhalation Hazard: No

### IMDG

UN number: 3077      Class: 9      Packing group: III      EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzo[a]pyrene)  
Marine pollutant:yes

### IATA

UN number: 3077      Class: 9      Packing group: III  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benzo[a]pyrene)

### Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

---

## 15. REGULATORY INFORMATION

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Benzo[a]pyrene	50-32-8	2007-03-01

### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

### Massachusetts Right To Know Components

	CAS-No.	Revision Date
Benzo[a]pyrene	50-32-8	2007-03-01

### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Benzo[a]pyrene	50-32-8	2007-03-01

	CAS-No.	Revision Date
Benzo[a]pyrene	50-32-8	2007-03-01

### New Jersey Right To Know Components

	CAS-No.	Revision Date
--	---------	---------------



Benzo[a]pyrene

50-32-8

2007-03-01

**California Prop. 65 Components**

WARNING! This product contains a chemical known to the State of California to cause cancer.  
Benzo[a]pyrene

CAS-No.  
50-32-8

Revision Date  
1990-01-01

---

**16. OTHER INFORMATION**

**Full text of H-Statements referred to under sections 2 and 3.**

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H317	May cause an allergic skin reaction.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Muta.	Germ cell mutagenicity

**HMIS Rating**

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

**NFPA Rating**

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

**Further information**

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

**Preparation Information**

Sigma-Aldrich Corporation  
Product Safety – Americas Region  
1-800-521-8956

Version: 5.8

Revision Date: 02/02/2018

Print Date: 10/19/2018

## SAFETY DATA SHEET

Version 6.1  
Revision Date 07/17/2018  
Print Date 01/21/2019

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name : Benzo[**a**]fluoranthene  
Product Number : 48490  
Brand : Supelco  
Index-No. : 601-034-00-4  
CAS-No. : 205-99-2

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

#### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.  
3050 Spruce Street  
ST. LOUIS MO 63103  
UNITED STATES  
Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

#### 1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Carcinogenicity (Category 1B), H350

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word : Danger

Hazard statement(s)

H350

May cause cancer.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

---

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms	: 3,4-Benzofluoranthene
Formula	: C<SB>20</SB>H<SB>12</SB>
Molecular weight	: 252.31 g/mol
CAS-No.	: 205-99-2
EC-No.	: 205-911-9
Index-No.	: 601-034-00-4

#### Hazardous components

Component	Classification	Concentration
<b>Benz[e]acephenanthrylene</b>		
	Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H350, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

---

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 5.4 Further information

No data available

---

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

---

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

	Remarks	Cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section), see BEI® for Polycyclic Aromatic Hydrocarbons (PAHs) Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen
--	---------	--

#### Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Benz[e]acephenant hrylene	205-99-2	1-Hydroxypyrene		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

## 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- |  |   |
|--|---|
| a) Appearance                              | Form: solid   |
| b) Odour                                   | No data available                                       |
| c) Odour Threshold                         | No data available                                       |
| d) pH                                      | No data available                                       |
| e) Melting point/freezing point            | Melting point/range: 163 - 165 °C (325 - 329 °F) - lit. |
| f) Initial boiling point and boiling range | No data available                                       |
| g) Flash point                             | No data available                                       |
| h) Evaporation rate                        | No data available                                       |
| i) Flammability (solid, gas)               | No data available                                       |

- |    |  |                   |
|----|--|-------------------|
| j) | Upper/lower flammability or explosive limits | No data available |
| k) | Vapour pressure                              | No data available |
| l) | Vapour density                               | No data available |
| m) | Relative density                             | No data available |
| n) | Water solubility                             | No data available |
| o) | Partition coefficient: n-octanol/water       | No data available |
| p) | Auto-ignition temperature                    | No data available |
| q) | Decomposition temperature                    | No data available |
| r) | Viscosity                                    | No data available |
| s) | Explosive properties                         | No data available |
| t) | Oxidizing properties                         | No data available |

## 9.2 Other safety information

No data available

---

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

---

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

TDLo Oral - Mouse - 7.57 mg/kg

Remarks: Liver:Changes in liver weight. Endocrine:Changes in thymus weight.

Inhalation: No data available

Dermal: No data available

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Benz[e]acephenanthrylene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Benz[e]acephenanthrylene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive toxicity**

No data available

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

---

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Toxicity to daphnia and other aquatic invertebrates      Immobilization EC50 - Daphnia magna (Water flea) - > 1.024 mg/l - 24 h(Benz[e]acephenanthrylene)

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available(Benz[e]acephenanthrylene)

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

---

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

### DOT (US)

Not dangerous goods

### IMDG

UN number: 3077      Class: 9      Packing group: III      EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Benz[e]acephenanthrylene)

Marine pollutant : yes

### IATA

UN number: 3077      Class: 9      Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benz[e]acephenanthrylene)

### Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

---

## 15. REGULATORY INFORMATION

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Benz[e]acephenanthrylene	205-99-2	2007-03-01

### SARA 311/312 Hazards

Chronic Health Hazard

### Massachusetts Right To Know Components

	CAS-No.	Revision Date
Benz[e]acephenanthrylene	205-99-2	2007-03-01

### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Benz[e]acephenanthrylene	205-99-2	2007-03-01

### California Prop. 65 Components

	CAS-No.	Revision Date
, which is/are known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .	205-99-2	2007-09-28
Benz[e]acephenanthrylene		

---

## 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

H350      May cause cancer.



H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

**Further information**

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

**Preparation Information**

Sigma-Aldrich Corporation  
Product Safety – Americas Region  
1-800-521-8956

Version: 6.1

Revision Date: 07/17/2018

Print Date: 01/21/2019

## SAFETY DATA SHEET

Version 6.1  
Revision Date 07/16/2018  
Print Date 01/21/2019

---

**1. PRODUCT AND COMPANY IDENTIFICATION****1.1 Product identifiers**

Product name : Benzo[*k*]fluoranthene  
Product Number : 48492  
Brand : Supelco  
Index-No. : 601-036-00-5  
CAS-No. : 207-08-9

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Laboratory chemicals, Synthesis of substances

**1.3 Details of the supplier of the safety data sheet**

Company : Sigma-Aldrich Inc.  
3050 Spruce Street  
ST. LOUIS MO 63103  
UNITED STATES  
Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

**1.4 Emergency telephone number**

Emergency Phone # : (314) 776-6555

---

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Carcinogenicity (Category 1B), H350

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 GHS Label elements, including precautionary statements**

Pictogram



Signal word : Danger

Hazard statement(s)

H350

May cause cancer.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

---

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Formula	: C <sub>20</sub> H <sub>12</sub>
Molecular weight	: 252.31 g/mol
CAS-No.	: 207-08-9
EC-No.	: 205-916-6
Index-No.	: 601-036-00-5

#### Hazardous components

Component	Classification	Concentration
<b>Benzo[k]fluoranthene</b>		
	Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H350, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

---

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 5.4 Further information

No data available

---

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

---

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

#### Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Benzo[k]fluoranthene	207-08-9	1-Hydroxypyrene		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

#### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

---

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

- |   |   |
|---|---|
| a) Appearance                                   | Form: crystalline<br>Colour: yellow                     |
| b) Odour  | No data available                                       |
| c) Odour Threshold                              | No data available                                       |
| d) pH   | No data available                                       |
| e) Melting point/freezing point                 | Melting point/range: 215 - 217 °C (419 - 423 °F) - lit. |
| f) Initial boiling point and boiling range      | No data available                                       |
| g) Flash point                                  | No data available                                       |
| h) Evaporation rate                             | No data available                                       |
| i) Flammability (solid, gas)                    | No data available                                       |
| j) Upper/lower flammability or explosive limits | No data available                                       |
| k) Vapour pressure                              | No data available                                       |
| l) Vapour density                               | No data available                                       |

- |   |                   |
|---|-------------------|
| m) Relative density                       | No data available |
| n) Water solubility                       | No data available |
| o) Partition coefficient: n-octanol/water | No data available |
| p) Auto-ignition temperature              | No data available |
| q) Decomposition temperature              | No data available |
| r) Viscosity                              | No data available |
| s) Explosive properties                   | No data available |
| t) Oxidizing properties                   | No data available |

## 9.2 Other safety information

No data available

---

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

---

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

Carcinogenicity- Rat- Implant

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Benzo[k]fluoranthene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Benzo[k]fluoranthene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

No data available

No data available

#### **Specific target organ toxicity - single exposure**

No data available

#### **Specific target organ toxicity - repeated exposure**

No data available

#### **Aspiration hazard**

No data available

#### **Additional Information**

RTECS: DF6350000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

---

## **12. ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available(Benzo[k]fluoranthene)

### **12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### **12.6 Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

---

## **13. DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### **Contaminated packaging**

Dispose of as unused product.

---

## **14. TRANSPORT INFORMATION**

### **DOT (US)**

UN number: 3077

Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benzo[k]fluoranthene)

Supelco- 48492

Reportable Quantity (RQ) : 5000 lbs

no

Poison Inhalation Hazard: No

#### IMDG

UN number: 3077      Class: 9      Packing group: III      EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzo[k]fluoranthene)  
Marine pollutant : yes

#### IATA

UN number: 3077      Class: 9      Packing group: III  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benzo[k]fluoranthene)

#### Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

---

### 15. REGULATORY INFORMATION

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Massachusetts Right To Know Components

	CAS-No.	Revision Date
Benzo[k]fluoranthene	207-08-9	1994-04-01

#### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Benzo[k]fluoranthene	207-08-9	1994-04-01

#### California Prop. 65 Components

	CAS-No.	Revision Date
, which is/are known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> . Benzo[k]fluoranthene	207-08-9	2007-09-28

---

### 16. OTHER INFORMATION

#### Full text of H-Statements referred to under sections 2 and 3.

H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.



**Preparation Information**

Sigma-Aldrich Corporation  
Product Safety – Americas Region  
1-800-521-8956  
Version: 6.1

Revision Date: 07/16/2018

Print Date: 01/21/2019

## SAFETY DATA SHEET

Version 6.1  
Revision Date 07/17/2018  
Print Date 01/21/2019

---

**1. PRODUCT AND COMPANY IDENTIFICATION****1.1 Product identifiers**

Product name : Benz[a]anthracene

Product Number : 48563  
Brand : Supelco  
Index-No. : 601-033-00-9

CAS-No. : 56-55-3

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Laboratory chemicals, Synthesis of substances

**1.3 Details of the supplier of the safety data sheet**

Company : Sigma-Aldrich Inc.  
3050 Spruce Street  
ST. LOUIS MO 63103  
UNITED STATES

Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

**1.4 Emergency telephone number**

Emergency Phone # : (314) 776-6555

---

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Carcinogenicity (Category 1B), H350

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 GHS Label elements, including precautionary statements**

Pictogram



Signal word : Danger

Hazard statement(s)

H350

May cause cancer.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

---

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms : 1,2-Benzanthracene  
Tetraphene

Formula : C<sub>18</sub>H<sub>12</sub>  
Molecular weight : 228.29 g/mol  
CAS-No. : 56-55-3  
EC-No. : 200-280-6  
Index-No. : 601-033-00-9

#### Hazardous components

Component	Classification	Concentration
<b>Benz[a]anthracene</b>		
	Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H350, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

---

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

---

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

---

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Store at room temperature.

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

#### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

---

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

- |   |  |
|---|--|
| a) Appearance                                   | Form: solid                                      |
| b) Odour  | No data available                                |
| c) Odour Threshold                              | No data available                                |
| d) pH   | No data available                                |
| e) Melting point/freezing point                 | Melting point/range: 157 - 159 °C (315 - 318 °F) |
| f) Initial boiling point and boiling range      | 437.6 °C (819.7 °F)                              |
| g) Flash point                                  | No data available                                |
| h) Evaporation rate                             | No data available                                |
| i) Flammability (solid, gas)                    | No data available                                |
| j) Upper/lower flammability or explosive limits | No data available                                |
| k) Vapour pressure                              | No data available                                |
| l) Vapour density                               | No data available                                |
| m) Relative density                             | No data available                                |

- |   |                   |
|---|-------------------|
| n) Water solubility                       | No data available |
| o) Partition coefficient: n-octanol/water | No data available |
| p) Auto-ignition temperature              | No data available |
| q) Decomposition temperature              | No data available |
| r) Viscosity                              | No data available |
| s) Explosive properties                   | No data available |
| t) Oxidizing properties                   | No data available |

## 9.2 Other safety information

No data available

---

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

---

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

LD50 Intravenous - Rat - > 200 mg/kg

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Benz[a]anthracene)  
IARC: 2B - Group 2B: Possibly carcinogenic to humans (Benz[a]anthracene)  
NTP: RAHC - Reasonably anticipated to be a human carcinogen (Benz[a]anthracene)  
NTP: RAHC - Reasonably anticipated to be a human carcinogen (Benz[a]anthracene)  
OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.  
No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive toxicity**

No data available  
No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

---

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available(Benz[a]anthracene)

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

---

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

### DOT (US)

Not dangerous goods

### IMDG

UN number: 3077

Class: 9

Packing group: III

EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benz[a]anthracene)

Marine pollutant : yes

### IATA

UN number: 3077

Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benz[a]anthracene)

### Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

---

## 15. REGULATORY INFORMATION

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Chronic Health Hazard

### Massachusetts Right To Know Components

	CAS-No.	Revision Date
Benz[a]anthracene	56-55-3	1993-04-24

### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Benz[a]anthracene	56-55-3	1993-04-24

	CAS-No.	Revision Date
Benz[a]anthracene	56-55-3	1993-04-24

### New Jersey Right To Know Components

	CAS-No.	Revision Date
Benz[a]anthracene	56-55-3	1993-04-24

### California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Benz[a]anthracene	56-55-3	2007-09-28

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Benz[a]anthracene	56-55-3	2007-09-28

---

## 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

H350	May cause cancer.
H400	Very toxic to aquatic life.



H410

Very toxic to aquatic life with long lasting effects.

**Further information**

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

**Preparation Information**

Sigma-Aldrich Corporation  
Product Safety – Americas Region  
1-800-521-8956  
Version: 6.1

Revision Date: 07/17/2018

Print Date: 01/21/2019

## SAFETY DATA SHEET

Version 6.1  
Revision Date 07/17/2018  
Print Date 01/21/2019

---

**1. PRODUCT AND COMPANY IDENTIFICATION****1.1 Product identifiers**

Product name : Dibenz[*a,h*]anthracene  
Product Number : 48574  
Brand : Supelco  
Index-No. : 601-041-00-2  
CAS-No. : 53-70-3

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Laboratory chemicals, Synthesis of substances

**1.3 Details of the supplier of the safety data sheet**

Company : Sigma-Aldrich Inc.  
3050 Spruce Street  
ST. LOUIS MO 63103  
UNITED STATES  
Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

**1.4 Emergency telephone number**

Emergency Phone # : (314) 776-6555

---

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Carcinogenicity (Category 1B), H350

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 GHS Label elements, including precautionary statements**

Pictogram



Signal word : Danger

Hazard statement(s)

H350

May cause cancer.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms	: 1,2:5,6-Dibenzanthracene
Formula	: C <sub>22</sub> H <sub>14</sub>
Molecular weight	: 278.35 g/mol
CAS-No.	: 53-70-3
EC-No.	: 200-181-8
Index-No.	: 601-041-00-2

#### Hazardous components

Component	Classification	Concentration
<b>Dibenz[a,h]anthracene</b>		
	Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H350, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

---

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

---

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

---

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Store at room temperature.

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

#### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

---

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

- |   |   |
|---|---|
| a) Appearance                                   | Form: solid   |
| b) Odour  | No data available                                       |
| c) Odour Threshold                              | No data available                                       |
| d) pH   | No data available                                       |
| e) Melting point/freezing point                 | Melting point/range: 262 - 265 °C (504 - 509 °F) - lit. |
| f) Initial boiling point and boiling range      | 524 °C (975 °F) - lit.                                  |
| g) Flash point                                  | No data available                                       |
| h) Evaporation rate                             | No data available                                       |
| i) Flammability (solid, gas)                    | No data available                                       |
| j) Upper/lower flammability or explosive limits | No data available                                       |
| k) Vapour pressure                              | No data available                                       |
| l) Vapour density                               | No data available                                       |
| m) Relative density                             | No data available                                       |

- |   |                   |
|---|-------------------|
| n) Water solubility                       | No data available |
| o) Partition coefficient: n-octanol/water | No data available |
| p) Auto-ignition temperature              | No data available |
| q) Decomposition temperature              | No data available |
| r) Viscosity                              | No data available |
| s) Explosive properties                   | No data available |
| t) Oxidizing properties                   | No data available |

## 9.2 Other safety information

No data available

---

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

---

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

Laboratory experiments have shown mutagenic effects.

#### Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive toxicity**

No data available  
No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: HN2625000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Lungs -

---

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Toxicity to daphnia and other aquatic invertebrates      Immobilization EC50 - Daphnia magna (Water flea) - 0.496 mg/l - 24 h(Dibenz[a,h]anthracene)

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available(Dibenz[a,h]anthracene)

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

---

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

---

**14. TRANSPORT INFORMATION**

**DOT (US)**

Not dangerous goods

**IMDG**

UN number: 3077

Class: 9

Packing group: III

EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dibenz[a,h]anthracene)

Marine pollutant : yes

**IATA**

UN number: 3077

Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dibenz[a,h]anthracene)

**Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

---

**15. REGULATORY INFORMATION**

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Chronic Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Dibenz[a,h]anthracene	53-70-3	

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Dibenz[a,h]anthracene	53-70-3	

	CAS-No.	Revision Date
Dibenz[a,h]anthracene	53-70-3	

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
Dibenz[a,h]anthracene	53-70-3	

**California Prop. 65 Components**

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Dibenz[a,h]anthracene	53-70-3	

---

**16. OTHER INFORMATION**

**Full text of H-Statements referred to under sections 2 and 3.**

H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Further information**

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.



**Preparation Information**

Sigma-Aldrich Corporation  
Product Safety – Americas Region  
1-800-521-8956  
Version: 6.1

Revision Date: 07/17/2018

Print Date: 01/21/2019

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name : Chrysene  
Product Number : 35754  
Brand : Sigma-Aldrich  
Index-No. : 601-048-00-0  
CAS-No. : 218-01-9

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

#### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA  
Telephone : +1 800-325-5832  
Fax : +1 800-325-5052

#### 1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Germ cell mutagenicity (Category 2), H341  
Carcinogenicity (Category 1B), H350  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P273 Avoid release to the environment.  
P281 Use personal protective equipment as required.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P391 Collect spillage.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Formula : C<sub>18</sub>H<sub>12</sub>  
Molecular weight : 228.29 g/mol  
CAS-No. : 218-01-9  
EC-No. : 205-923-4  
Index-No. : 601-048-00-0

#### Hazardous components

Component	Classification	Concentration
<b>Chrysene</b>	Muta. 2; Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H341, H350, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Flush eyes with water as a precaution.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

---

### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

No data available

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

No data available

---

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.  
For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

---

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.  
Provide appropriate exhaust ventilation at places where dust is formed.  
For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.  
Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
	Remarks	Cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section), see BEI® for Polycyclic Aromatic Hydrocarbons (PAHs) Exposure by all routes should be carefully controlled to levels as low as possible. Confirmed animal carcinogen with unknown relevance to humans		
Chrysene	218-01-9	TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		1910.1002 As used in §1910.1000 (Table Z-1), coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatilize from the distillation residues of coal, petroleum (excluding asphalt), wood, and other organic matter. Asphalt (CAS 8052-42-4, and CAS 64742-93-4) is not covered under the 'coal tar pitch volatiles' standard OSHA specifically regulated carcinogen		
		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen		

		NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar products. cyclohexane-extractable fraction See Appendix C See Appendix A		
		PEL	0.2 mg/m <sup>3</sup>	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

### Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
	-	1-Hydroxypyrene		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

## 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

#### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form: solid
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	Melting point/range: 252 - 254 °C (486 - 489 °F) - lit.
f) Initial boiling point and boiling range	448 °C (838 °F) - lit.
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	insoluble
o) Partition coefficient: n-octanol/water	log Pow: 5.73
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

### 9.2 Other safety information

No data available

---

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

---

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

LD50 Intraperitoneal - Mouse - > 320 mg/kg

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

Laboratory experiments have shown mutagenic effects.

In vitro tests showed mutagenic effects

#### Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Chrysene)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: OSHA specifically regulated carcinogen (Chrysene)

#### Reproductive toxicity

No data available

No data available

#### Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

No data available

#### Aspiration hazard

No data available

#### Additional Information

RTECS: GC0700000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

---

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 1.90 mg/l - 2 h

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life.

---

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

### DOT (US)

UN number: 3077      Class: 9      Packing group: III  
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Chrysene)  
Reportable Quantity (RQ): 100 lbs  
Poison Inhalation Hazard: No

### IMDG

UN number: 3077      Class: 9      Packing group: III      EMS-No: F-A, S-F  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chrysene)  
Marine pollutant: yes

### IATA

UN number: 3077      Class: 9      Packing group: III  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Chrysene)

### Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

---

## 15. REGULATORY INFORMATION

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Chrysene	218-01-9	1994-04-01

### SARA 311/312 Hazards

Chronic Health Hazard

### Massachusetts Right To Know Components

	CAS-No.	Revision Date
Chrysene	218-01-9	1994-04-01

### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Chrysene	218-01-9	1994-04-01



Chrysene

CAS-No.  
218-01-9

Revision Date  
1994-04-01

### New Jersey Right To Know Components

Chrysene

CAS-No.  
218-01-9

Revision Date  
1994-04-01

### California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.

Chrysene

CAS-No.  
218-01-9

Revision Date  
2007-09-28

---

## 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

### NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

### Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

### Preparation Information

Sigma-Aldrich Corporation  
Product Safety – Americas Region  
1-800-521-8956

Version: 5.5

Revision Date: 01/10/2018

Print Date: 01/21/2019

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name : Mercury

Product Number : 215457  
Brand : Sigma-Aldrich  
Index-No. : 080-001-00-0

CAS-No. : 7439-97-6

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

#### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052

#### 1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Inhalation (Category 2), H330  
Reproductive toxicity (Category 1B), H360  
Specific target organ toxicity - repeated exposure (Category 1), H372  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H330 Fatal if inhaled.  
H360 May damage fertility or the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none**

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

Formula	: Hg
Molecular weight	: 200.59 g/mol
CAS-No.	: 7439-97-6
EC-No.	: 231-106-7
Index-No.	: 080-001-00-0

**Hazardous components**

Component	Classification	Concentration
<b>Mercury</b>		
	Acute Tox. 2; Repr. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H330, H360, H372, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

---

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

No data available

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

---

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. In some instances, a mercury spill kit may be used. Please consult with your site EHS representative to determine the most appropriate clean up method. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

---

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store under inert gas.

Storage class (TRGS 510): 6.1B: Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Mercury	7439-97-6	C	0.1 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
	Remarks	Potential for dermal absorption		
		CEIL	1.0mg/10m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	0.05 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		

		TWA	0.025 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Kidney damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen Danger of cutaneous absorption		
		TWA	0.05 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		

## 8.2 Exposure controls

### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

#### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- |               |                                       |
|---------------|---------------------------------------|
| a) Appearance | Form: liquid<br>Colour: silver, white |
|---------------|---------------------------------------|

b) Odour	odourless
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	Melting point/range: -38.87 °C (-37.97 °F) - lit.
f) Initial boiling point and boiling range	356.6 °C (673.9 °F) - lit.
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	< 0.01 hPa (< 0.01 mmHg) at 20 °C (68 °F) 1 hPa (1 mmHg) at 126 °C (259 °F)
l) Vapour density	6.93 - (Air = 1.0)
m) Relative density	13.55 g/cm <sup>3</sup> at 25 °C (77 °F)
n) Water solubility	0.00006 g/l at 25 °C (77 °F)
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

## 9.2 Other safety information

Relative vapour density 6.93 - (Air = 1.0)

---

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents, Ammonia, Azides, Nitrates, Chlorates, Copper

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Mercury/mercury oxides.

Other decomposition products - No data available

In the event of fire: see section 5

---

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

No data available

LC50 Inhalation - Rat - male - 2 h - < 27 mg/m<sup>3</sup>

Dermal: No data available

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### Reproductive toxicity

Presumed human reproductive toxicant

#### Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

No data available

#### Additional Information

RTECS: OV4550000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

---

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish                      mortality LC50 - Cyprinus carpio (Carp) - 0.160 mg/l - 96 h

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

Bioaccumulation                      Carassius auratus (goldfish) - 1,789 d  
- 0.25 µg/l

Bioconcentration factor (BCF): 155,986

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

---

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

---

**14. TRANSPORT INFORMATION**

**DOT (US)**

UN number: 2809      Class: 8 (6.1)      Packing group: III  
Proper shipping name: A. W. Mercury  
Reportable Quantity (RQ): 1 lbs  
Poison Inhalation Hazard: No

**IMDG**

**IATA**

UN number: 2809      Class: 8 (6.1)      Packing group: III  
Proper shipping name: Mercury

---

**15. REGULATORY INFORMATION**

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Mercury	7439-97-6	2015-11-23

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Mercury	7439-97-6	2015-11-23

	CAS-No.	Revision Date
Mercury	7439-97-6	2015-11-23

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
Mercury	7439-97-6	2015-11-23

**California Prop. 65 Components**



WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.  
Mercury

CAS-No.  
7439-97-6

Revision Date  
2013-12-20

---

## 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H330	Fatal if inhaled.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Repr.	Reproductive toxicity

### HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

### NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

### Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

### Preparation Information

Sigma-Aldrich Corporation  
Product Safety – Americas Region  
1-800-521-8956

Version: 3.15

Revision Date: 03/05/2018

Print Date: 11/10/2018

SDS preview

# LEAD

DANGER

7439-92-1

by Fisher Scientific

---

## Synonyms

C.I. 77575, C.I. Pigment Metal 4, EINECS 231-100-4, Glover, HSDB 231, Lead flake, Olow, Plumbum, CI 77575, Plumbum metallicum, Blei, CI pigment metal 4, EC 231-100-4, KS-4, Lead, Lead element, Lead S2, Olow [Polish], Omaha & grant, Pb-S 100, Rough lead bullion, CCRIS 1581, Lead metal, Lead S 2, SSO 1, UNII-2P299V784P

## Hazard statements

Harmful if inhaled

Harmful if swallowed

May cause cancer

May cause damage to organs through prolonged or repeated exposure

May cause drowsiness or dizziness

## Precautions

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Rinse mouth

Store locked up

## Hazard category

Acute toxicity, inhalation, Acute toxicity, oral, Carcinogenicity, Specific target organ toxicity, repeated exposure, Specific target organ toxicity, single exposure; Narcotic effects



2000200020002000&param1=ZmRwLjFfNzE0NjEwMDNORQ==&unique=1525284976)

The information contained herein is based on data compiled from the chemical components of the (M)SDS and may not accurately represent the safety hazards for the product. Only the manufacturer of the product can make actual representations about the hazard profile of a chemical product. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

© 2017 Chemical Safety Software

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.

P314 Get medical advice/ attention if you feel unwell.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none**

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

Formula : Se  
 Molecular weight : 78.96 g/mol  
 CAS-No. : 7782-49-2  
 EC-No. : 231-957-4  
 Index-No. : 034-001-00-2

**Hazardous components**

Component	Classification	Concentration
<b>Selenium</b>		
	Acute Tox. 3; STOT RE 2; Aquatic Chronic 4; H301 + H331, H373, H413	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

---

**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

No data available

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

## 5.4 Further information

No data available

---

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

---

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Store under inert gas. Keep in a dry place.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Selenium	7782-49-2	TWA	0.2 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye & Upper Respiratory Tract irritation		
		TWA	0.200000 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
		Eye & Upper Respiratory Tract irritation		
		TWA	0.200000 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.200000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		TWA	0.2 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		TWA	0.2 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.2 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye irritation		

		PEL	0.2 mg/m <sup>3</sup>	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
--	--	-----	-----------------------	---

## 8.2 Exposure controls

### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

#### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- |                                 |   |
|---------------------------------|---|
| a) Appearance                   | Form: powder<br>Colour: light grey          |
| b) Odour                        | No data available                           |
| c) Odour Threshold              | No data available                           |
| d) pH                           | No data available                           |
| e) Melting point/freezing point | Melting point/range: 217 °C (423 °F) - lit. |
| f) Initial boiling point and    | 684.9 °C (1,264.8 °F) - lit.                |

boiling range

- |   |   |
|---|---|
| g) Flash point                                  | Not applicable                          |
| h) Evaporation rate                             | No data available                       |
| i) Flammability (solid, gas)                    | No data available                       |
| j) Upper/lower flammability or explosive limits | No data available                       |
| k) Vapour pressure                              | No data available                       |
| l) Vapour density                               | No data available                       |
| m) Relative density                             | 4.81 g/cm <sup>3</sup> at 25 °C (77 °F) |
| n) Water solubility                             | insoluble                               |
| o) Partition coefficient: n-octanol/water       | log Pow: 5                              |
| p) Auto-ignition temperature                    | No data available                       |
| q) Decomposition temperature                    | No data available                       |
| r) Viscosity                                    | No data available                       |
| s) Explosive properties                         | No data available                       |
| t) Oxidizing properties                         | No data available                       |

## 9.2 Other safety information

No data available

---

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents, Do not store near acids., Amides, Carbides, Metals, Nickel, Nitric acid, Nitrogen trichloride, Oxygen, Potassium, Zinc

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Selenium/selenium oxides

Other decomposition products - No data available

In the event of fire: see section 5

---

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 6,700 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Lungs, Thorax, or Respiration:Dyspnea. Nutritional and Gross Metabolic:Changes in:Other changes.

Inhalation: No data available

Dermal: No data available

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

Carcinogenicity - Mouse - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available

No data available

Developmental Toxicity - Mouse - Oral

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

No data available

**Additional Information**

RTECS: VS7700000

anemia, Vomiting, Diarrhoea, Cough, Difficulty in breathing, Acute selenium poisoning produces central nervous system effects, which include nervousness, convulsions, and drowsiness. Other signs of intoxication can include skin eruptions, lassitude, gastrointestinal distress, teeth that are discolored or decayed, odorous ("garlic") breath, and partial loss of hair and nails. Chronic exposure by inhalation can produce symptoms that include pallor, coating of the tongue, anemia, irritation of the mucosa, lumbar pain, liver and spleen damage, as well as any of the other previously mentioned symptoms. Chronic contact with selenium compounds may cause garlic odor of breath and sweat, dermatitis, and moderate emotional instability., Dermatitis, garlic-like breath odor, pallor, nervousness, depression

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

---

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Toxicity to fish mortality NOEC - Cyprinodon variegatus (sheepshead minnow) - 2 mg/l - 96.0 h



mortality LOEC - Oncorhynchus mykiss (rainbow trout) - 7.8 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates LC50 - Daphnia magna (Water flea) - 0.43 mg/l - 48 h

Toxicity to algae EC50 - Pseudokirchneriella subcapitata - 99 mg/l - 72 h

## 12.2 Persistence and degradability

No data available

## 12.3 Bioaccumulative potential

Bioaccumulation Lepomis macrochirus - 60 d  
- 640 µg/l

Bioconcentration factor (BCF): 7.7

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

---

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

### DOT (US)

UN number: 3288 Class: 6.1 Packing group: III  
Proper shipping name: Toxic solid, inorganic, n.o.s. (Selenium)  
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

### IMDG

UN number: 3288 Class: 6.1 Packing group: III EMS-No: F-A, S-A  
Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S. (Selenium)  
Marine pollutant:yes

### IATA

UN number: 3288 Class: 6.1 Packing group: III  
Proper shipping name: Toxic solid, inorganic, n.o.s. (Selenium)

---

## 15. REGULATORY INFORMATION

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Selenium	7782-49-2	2007-07-01

### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

### Massachusetts Right To Know Components

Selenium	CAS-No. 7782-49-2	Revision Date 2007-07-01
----------	----------------------	-----------------------------

### Pennsylvania Right To Know Components

Selenium	CAS-No. 7782-49-2	Revision Date 2007-07-01
----------	----------------------	-----------------------------

### New Jersey Right To Know Components

Selenium	CAS-No. 7782-49-2	Revision Date 2007-07-01
----------	----------------------	-----------------------------

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

---

## 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
H301	Toxic if swallowed.
H301 + H331	Toxic if swallowed or if inhaled
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

### HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

### NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

### Further information

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

### Preparation Information

Sigma-Aldrich Corporation  
Product Safety – Americas Region  
1-800-521-8956

Version: 4.10

Revision Date: 09/23/2016

Print Date: 06/28/2019



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.1  
Revision Date 16.11.2019  
Print Date 13.07.2021

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : CIS-CHLORDANE,10MG,NEAT

Product Number : N11480

Brand : Supelco

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS-No. : 5103-71-9

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES

Telephone : +1 314 771-5765

Fax : +1 800 325-5052

### 1.4 Emergency telephone number

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 4), H332

Carcinogenicity (Category 2), H351

Short-term (acute) aquatic hazard (Category 1), H400

Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SAFETY DATA SHEET

Version 6.1  
Revision Date 04/19/2021  
Print Date 07/13/2021

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

Product name : 4,4'-DDD  
Product Number : 43923  
Brand : Sigma-Aldrich  
CAS-No. : 72-54-8

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Laboratory chemicals, Synthesis of substances

**1.3 Details of the supplier of the safety data sheet**

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES

Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

**1.4 Emergency telephone**

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-  
527-3887 CHEMTREC (International) 24  
Hours/day; 7 Days/week

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity, Oral (Category 3), H301  
Acute toxicity, Dermal (Category 4), H312  
Carcinogenicity (Category 2), H351  
Short-term (acute) aquatic hazard (Category 1), H400  
Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 GHS Label elements, including precautionary statements**

Pictogram



Signal word

Danger

Hazard statement(s)	
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/ doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none**

---

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Synonyms	: 2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane
Formula	: C14H10Cl4
Molecular weight	: 320.05 g/mol
CAS-No.	: 72-54-8
EC-No.	: 200-783-0

Component	Classification	Concentration
<b>2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane</b>		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H351, H400, H410 M-Factor - Aquatic Acute: 100	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Hydrogen chloride gas

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

---

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. **Advice on safe handling**

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

#### Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place.

Moisture sensitive. Store under argon.

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

---

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

- |   |                                   |
|---|-----------------------------------|
| a) Appearance                                   | Form: solid                       |
| b) Odor   | No data available                 |
| c) Odor Threshold                               | No data available                 |
| d) pH   | No data available                 |
| e) Melting point/freezing point                 | 94.0 - 96.0 °C (201.2 - 204.8 °F) |
| f) Initial boiling point and boiling range      | 193.0 °C 379.4 °F at 1.3 hPa      |
| g) Flash point                                  | ( )No data available              |
| h) Evaporation rate                             | No data available                 |
| i) Flammability (solid, gas)                    | No data available                 |
| j) Upper/lower flammability or explosive limits | No data available                 |
| k) Vapor pressure                               | < 0.000 hPa at 25.0 °C (77.0 °F)  |
| l) Vapor density                                | No data available                 |
| m) Relative density                             | No data available                 |
| n) Water solubility                             | No data available                 |
| o) Partition coefficient: n-octanol/water       | log Pow: 6.02                     |
| p) Autoignition temperature                     | No data available                 |



- q) Decomposition temperature No data available
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

## 9.2 Other safety information

No data available

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Hamster - > 5,000 mg/kg

TDLo Oral - Human - 428.5 mg/kg

Remarks: Endocrine:Adrenal cortex hypoplasia.TDLo Oral - Rat - 6,000 mg/kg

Remarks: Cardiac:Other changes.Gastrointestinal:Other changes.Kidney, Ureter, Bladder:Changes in both tubules and glomeruli.TDLo Oral - Rat - 14 mg/kg

Remarks: Liver:Changes in liver weight.Endocrine:Estrogenic.Musculoskeletal:Other changes.TDLo Oral - Rat - 2,100 mg/kg

Remarks: Behavioral:Altered sleep time (including change in righting reflex).

Inhalation: No data available

LD50 Dermal - Rabbit - 1,200 mg/kg

Remarks: Behavioral:Excitement.

Behavioral:Convulsions or effect on seizure threshold.

Skin irritation

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

Sigma-Aldrich - 43923

Page 6 of 9

### **Respiratory or skin sensitization**

No data available

### **Germ cell mutagenicity**

No data available

### **Carcinogenicity**

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2A - Group 2A: Probably carcinogenic to humans (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### **Reproductive toxicity**

No data available

No data available

### **Specific target organ toxicity - single exposure**

No data available

### **Specific target organ toxicity - repeated exposure**

No data available

### **Aspiration hazard**

No data available

## **11.2 Additional Information**

RTECS: KI0700000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

---

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Toxicity to fish	LC50 - other fish - 1.18 - 9 mg/l - 96.0 h
	LC50 - Lepomis macrochirus (Bluegill) - 0.04 - 0.05 mg/l - 96.0 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.06 - 0.09 mg/l - 96.0 h
	LC50 - Pimephales promelas (fathead minnow) - 3.47 - 5.58 mg/l - 96.0 h
Toxicity to daphnia and other aquatic	EC50 - Daphnia pulex (Water flea) - 0.01 mg/l - 48 h

Sigma-Aldrich - 43923

Page 7 of 9

invertebrates

#### **12.2 Persistence and degradability**

No data available

#### **12.3 Bioaccumulative potential**

Indication of bioaccumulation.

#### **12.4 Mobility in soil**

No data available

#### **12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### **12.6 Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

---

### **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

##### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

##### **Contaminated packaging**

Dispose of as unused product.

---

### **SECTION 14: Transport information**

#### **DOT (US)**

UN number: 2811 Class: 6.1 Packing group: III  
Proper shipping name: Toxic solids, organic, n.o.s. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)  
Reportable Quantity (RQ): 1 lbs  
Poison Inhalation Hazard: No

#### **IMDG**

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)  
Marine pollutant : yes

#### **IATA**

UN number: 2811 Class: 6.1 Packing group: III  
Proper shipping name: Toxic solid, organic, n.o.s. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)

---

### **SECTION 15: Regulatory information**

#### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

Sigma-Aldrich - 43923

Page 8 of 9

**Pennsylvania Right To Know Components**

2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane

CAS-No.  
72-54-8Revision Date  
1993-02-16

2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane

CAS-No.  
72-54-8Revision Date  
1993-02-16**New Jersey Right To Know Components**

2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane

CAS-No.  
72-54-8Revision Date  
1993-02-16**California Prop. 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

---

**SECTION 16: Other information****Further information**

Copyright 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact [mlsbranding@sial.com](mailto:mlsbranding@sial.com).

Version: 6.1

Revision Date: 04/19/2021

Print Date: 07/13/2021

## 2.2 Label elements

### Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word	Danger
Hazard statement(s)	
H301	Toxic if swallowed.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Supplemental Hazard Statements	none

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

---

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Molecular weight	: 409,8 g/mol
CAS-No.	: 5103-71-9
EC-No.	: 225-825-5

Component	Classification	Concentration
<b>Chlordane</b>	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H332, H351, H400, H410 M-Factor - Aquatic Acute: 10	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

No data available

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**  
No data available

---

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

No data available

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides, Hydrogen chloride gas

**5.3 Advice for firefighters**

No data available

**5.4 Further information**

No data available

---

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

For personal protection see section 8.

**6.2 Environmental precautions**

No data available

**6.3 Methods and materials for containment and cleaning up**

No data available

**6.4 Reference to other sections**

For disposal see section 13.

---

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

No data available

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Components with workplace control parameters**

**8.2 Exposure controls**

No data available

---

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

- |               |   |
|---------------|---|
| a) Appearance | Form: crystalline<br>Colour: colourless |
| b) Odour      | No data available                       |

c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	93,0 - 94,0 °C
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	slightly soluble
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

## 9.2 Other safety information

No data available

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

Other decomposition products - No data available

---

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

LD50 Oral - Rat - 200 mg/kg

LD50 Oral - Mouse - 145 mg/kg

Inhalation: (Regulation (EC) No 1272/2008, Annex VI)

#### **Skin corrosion/irritation**

#### **Serious eye damage/eye irritation**

#### **Respiratory or skin sensitisation**

#### **Germ cell mutagenicity**

#### **Carcinogenicity**

Suspected of causing cancer.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Chlordane)

#### **Reproductive toxicity**

#### **Specific target organ toxicity - single exposure**

#### **Specific target organ toxicity - repeated exposure**

#### **Aspiration hazard**

#### **Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

---

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0,044 mg/l - 96,0 h Remarks: (in analogy to similar products)
	LOEC - Pimephales promelas (fathead minnow) - 0,025 mg/l - 48,0 h Remarks: (in analogy to similar products)
Toxicity to daphnia and other aquatic invertebrates	LOEC - Daphnia magna (Water flea) - 0,07 mg/l - 48 h Remarks: (in analogy to similar products)
	LC50 - Daphnia magna (Water flea) - 0,0984 mg/l - 48 h Remarks: (in analogy to similar products)



## 12.2 Persistence and degradability

## 12.3 Bioaccumulative potential

## 12.4 Mobility in soil

## 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Other adverse effects

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

No data available

---

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: 3077

IMDG: 3077

IATA: 3077

### 14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlordane)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlordane)

IATA: Environmentally hazardous substance, solid, n.o.s. (Chlordane)

### 14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

### 14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

### 14.5 Environmental hazards

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: yes

### 14.6 Special precautions for user

No data available

---

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

---

## SECTION 16: Other information

### Full text of H-Statements referred to under sections 2 and 3.

H301

Toxic if swallowed.

H332

Harmful if inhaled.

H351

Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact [mlsbranding@sial.com](mailto:mlsbranding@sial.com).

## SAFETY DATA SHEET

Version 6.3  
Revision Date 04/18/2021  
Print Date 07/11/2021**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

Product name : 4,4'-DDT

Product Number : 386340

Brand : Aldrich

Index-No. : 602-045-00-7

CAS-No. : 50-29-3

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Laboratory chemicals, Synthesis of substances

**1.3 Details of the supplier of the safety data sheet**

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES

Telephone : +1 314 771-5765

Fax : +1 800 325-5052

**1.4 Emergency telephone**

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity, Oral (Category 3), H301  
Acute toxicity, Dermal (Category 3), H311  
Carcinogenicity (Category 2), H351  
Specific target organ toxicity - repeated exposure, Oral (Category 1), H372  
Short-term (acute) aquatic hazard (Category 1), H400  
Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 GHS Label elements, including precautionary statements**

Pictogram



Signal word	Danger
Hazard statement(s)	
H301 + H311	Toxic if swallowed or in contact with skin.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms	:	1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane 1,1-Bis(4-chlorophenyl)-2,2,2-trichloroethane
Formula	:	C <sub>14</sub> H <sub>9</sub> Cl <sub>5</sub>
Molecular weight	:	354.49 g/mol
CAS-No.	:	50-29-3
EC-No.	:	200-024-3
Index-No.	:	602-045-00-7

Component	Classification	Concentration
<b>1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane</b>	Acute Tox. 3; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H301, H311, H351, H372, H400, H410 M-Factor - Aquatic Acute: 100 M-Factor - Aquatic	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

---

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Hydrogen chloride gas

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

---

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **6.4 Reference to other sections**

For disposal see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Advice on safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. **Advice on safe handling**

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

#### **Advice on protection against fire and explosion**

Provide appropriate exhaust ventilation at places where dust is formed.

#### **Hygiene measures**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Storage conditions**

Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Ingredients with workplace control parameters**

Component	CAS-No.	Value	Control parameters	Basis
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	TWA	1 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans		
		TWA	0.5 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen		
		TWA	1 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	1 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		
		PEL	1 mg/m <sup>3</sup>	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

## 8.2 Exposure controls

### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

#### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

---

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

- |   |   |
|---|---|
| a) Appearance                                   | Form: solid   |
| b) Odor   | No data available                                       |
| c) Odor Threshold                               | No data available                                       |
| d) pH   | No data available                                       |
| e) Melting point/freezing point                 | Melting point/range: 107 - 110 °C (225 - 230 °F) - lit. |
| f) Initial boiling point and boiling range      | 260.0 °C 500.0 °F                                       |
| g) Flash point                                  | 72.0 - 77.0 °C (161.6 - 170.6 °F)                       |
| h) Evaporation rate                             | No data available                                       |
| i) Flammability (solid, gas)                    | No data available                                       |
| j) Upper/lower flammability or explosive limits | No data available                                       |
| k) Vapor pressure                               | 0.000 hPa at 20.0 °C (68.0 °F)                          |
| l) Vapor density                                | No data available                                       |
| m) Relative density                             | No data available                                       |
| n) Water solubility                             | No data available                                       |
| o) Partition coefficient:                       | log Pow: 6.91   |



n-octanol/water

- p) Autoignition temperature No data available
- q) Decomposition temperature No data available
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

## 9.2 Other safety information

No data available

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Oxidizing agents, Iron and iron salts.

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 87.0 mg/kg

Remarks: (RTECS)

Inhalation: No data available

LD50 Dermal - Rabbit - 300.0 mg/kg

Remarks: Behavioral:Tremor.

Behavioral:Muscle weakness.

Behavioral:Ataxia.

(RTECS)

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

Limited evidence of carcinogenicity in animal studies

IARC: 2A - Group 2A: Probably carcinogenic to humans (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

Ingestion - Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

No data available

**11.2 Additional Information**

RTECS: KJ3325000

CNS stimulation., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Pancreas. -

---

**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.003400 mg/l - 96.0 h Remarks: (ECOTOX Database) (Regulation (EC) No 1272/2008, Annex VI)
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 0.00108 mg/l - 48 h Remarks: (ECOTOX Database) (Regulation (EC) No 1272/2008, Annex VI)

## 12.2 Persistence and degradability

No data available

## 12.3 Bioaccumulative potential

Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 20 d  
- 0.001 mg/l(1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)

Bioconcentration factor (BCF): 46,670

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

No data available

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

---

## SECTION 14: Transport information

### DOT (US)

UN number: 2811 Class: 6.1 Packing group: III  
Proper shipping name: Toxic solids, organic, n.o.s. (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)  
Reportable Quantity (RQ): 1 lbs  
1) Marine pollutant: yes Poison Inhalation Hazard: No

### IMDG

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)  
Marine pollutant : yes

### IATA

UN number: 2811 Class: 6.1 Packing group: III  
Proper shipping name: Toxic solid, organic, n.o.s. (1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane)

---

**SECTION 15: Regulatory information****SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
1,1,1-Trichloro-2,2-bis(4-chlorophenyl)ethane	50-29-3	1993-02-16

---

**SECTION 16: Other information****Further information**

Copyright 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the

information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact [mlsbranding@sial.com](mailto:mlsbranding@sial.com).

Version: 6.3

Revision Date: 04/18/2021

Print Date: 07/11/2021

# SAFETY DATA SHEET

Version 6.2  
Revision Date 04/19/2021  
Print Date 07/13/2021

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Dieldrin  
Product Number : 44959  
Brand : Sigma-Aldrich  
Index-No. : 602-049-00-9  
CAS-No. : 60-57-1

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES  
Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

### 1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-  
527-3887 CHEMTREC (International) 24  
Hours/day; 7 Days/week

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 2), H300  
Acute toxicity, Dermal (Category 1), H310  
Carcinogenicity (Category 2), H351  
Specific target organ toxicity - repeated exposure, Oral (Category 1), H372  
Short-term (acute) aquatic hazard (Category 1), H400  
Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word	Danger
Hazard statement(s)	
H300 + H310	Fatal if swallowed or in contact with skin.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P302 + P350 + P310	IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Formula	: C <sub>12</sub> H <sub>8</sub> Cl <sub>6</sub> O
Molecular weight	: 380.92 g/mol
CAS-No.	: 60-57-1
EC-No.	: 200-484-5
Index-No.	: 602-049-00-9

Component	Classification	Concentration
<b>Dieldrin</b>	Acute Tox. 2; Acute Tox. 1; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H300, H310, H351, H372, H400, H410 M-Factor - Aquatic Acute: 100 M-Factor - Aquatic Chronic: 100	<= 100 %

---

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Hydrogen chloride gas

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

---

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.



## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

For disposal see section 13.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. **Advice on safe handling**

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

#### Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place.

Moisture sensitive. Store under argon.

Storage class (TRGS 510): 6.1B: Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Dieldrin	60-57-1	TWA	0.1 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	0.25 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen		

		Potential for dermal absorption		
		TWA	0.25 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		PEL	0.25 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

## 8.2 Exposure controls

### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

---

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |                                 |                                     |
|---------------------------------|-------------------------------------|
| a) Appearance                   | Form: solid                         |
| b) Odor                         | No data available                   |
| c) Odor Threshold               | No data available                   |
| d) pH                           | No data available                   |
| e) Melting point/freezing point | 143.0 - 144.0 °C (289.4 - 291.2 °F) |

f) Initial boiling point and boiling range	No data available
g) Flash point	( )No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Autoignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

## 9.2 Other safety information

No data available

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 38.3 mg/kg

Inhalation: No data available

Dermal: No data available

LD50 Dermal - 5 mg/kg

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### Reproductive toxicity

No data available

No data available

#### Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

Ingestion - Causes damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

No data available

### 11.2 Additional Information

RTECS: IO1750000

Discomfort, Headache, Nausea, Vomiting, Dizziness, Tremors, tonic convulsions, clonic spasms, Coma., respiratory failure, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Blood - Irregularities - Based on Human Evidence

---

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish	mortality LC50 - Carassius auratus (goldfish) - 1.6 µg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 79.5 µg/l - 48 h

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

---

## SECTION 14: Transport information

### DOT (US)

UN number: 2811 Class: 6.1 Packing group: I  
Proper shipping name: Toxic solids, organic, n.o.s. (Dieldrin)  
Reportable Quantity (RQ): 1 lbs

1) Marine pollutant: yes Poison Inhalation Hazard: No

### IMDG

UN number: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A

Sigma-Aldrich - 44959

Page 8 of 9

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Dieldrin)  
Marine pollutant : yes

**IATA**

UN number: 2811 Class: 6.1 Packing group: I  
Proper shipping name: Toxic solid, organic, n.o.s. (Dieldrin)  
IATA Passenger: Not permitted for transport

---

**SECTION 15: Regulatory information**

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

Dieldrin	CAS-No. 60-57-1	Revision Date 1993-02-16
----------	--------------------	-----------------------------

Dieldrin	CAS-No. 60-57-1	Revision Date 1993-02-16
----------	--------------------	-----------------------------

**New Jersey Right To Know Components**

Dieldrin	CAS-No. 60-57-1	Revision Date 1993-02-16
----------	--------------------	-----------------------------

**California Prop. 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

---

**SECTION 16: Other information**

**Further information**

Copyright 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact [mlsbranding@sial.com](mailto:mlsbranding@sial.com).

Version: 6.2                                      Revision Date: 04/19/2021                                      Print Date: 07/13/2021

**APPENDIX G**  
**COMMUNITY AIR MONITORING PLAN**

**COMMUNITY AIR MONITORING PLAN**  
**New Rochelle Block 417 Site**  
**327-329 Huguenot Street**  
**New Rochelle, Westchester County, New York**

**1.0 INTRODUCTION**

This document presents a Community Air Monitoring Plan (CAMP) for the remedial investigation (RI) for the proposed development at 327-329 Huguenot Street, New Rochelle, Westchester County, New York (the Site). The Site is approximately 9,600 ft<sup>2</sup> lot which is currently being used as a parking lot. The Site is located in a dense commercial and residential area in downtown New Rochelle, and is bound to the south by Centre Avenue followed by a residential apartment building, to the north by an Episcopal Church, and to the east and west sides by multiple retail shops and restaurants.

**2.0 OBJECTIVES**

The objective of the CAMP is to provide a measure of protection for the downwind community from potential airborne contaminant releases that may arise during all ground intrusive activities, and potentially contaminated soil and material handling and staging. In addition, the CAMP is intended to ensure that dust and contaminants are not leaving the work zone.

**3.0 METHODS**

The CAMP will include continuous monitoring for particulate matter (e.g., airborne “dust”) and volatile organic compounds (VOCs) during the planned remedial excavation and construction activities. Any CAMP exceedances will be reported to the NYSDEC and NYSDOH on the same business day and as soon as possible. Notification of the exceedance will be sent via email along with the reason for the exceedance, the measure(s) taken to address the exceedance, and if the exceedance was resolved.



### **3.1 CONTINUOUS MONITORING**

Continuous monitoring for particulates and VOCs will be conducted during all ground intrusive activities including soil borings, monitoring well installations, and archaeological excavations.

### **3.2 PERIODIC MONITORING**

Periodic monitoring for VOCs will be conducted 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 consists 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.

### **4.0 VOC MONITORING, RESPONSE LEVELS, AND ACTIONS**

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. The monitoring work will be performed using a photoionization detector (PID) equipped with a 10.6 eV lamp. The equipment will 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.

- 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.

- 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.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

All 15-minute readings must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

## **5.0 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.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m<sup>3</sup>) 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, including water spraying. Water may be sourced from a nearby hydrant or from a water truck. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not

exceed 150 mcg/m<sup>3</sup> above the upwind level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m<sup>3</sup> 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<sup>3</sup> of the upwind level and in preventing visible dust migration.

All readings must be recorded and be available for State (DEC and DOH) personnel to review.

## **6.0 SPECIAL REQUIREMENTS FOR WORK WITHIN 20 FEET OF POTENTIALLY EXPOSED INDIVIDUAL STRUCTURES**

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Depending upon the nature of contamination, chemical-specific colorimetric tubes of sufficient sensitivity may be necessary for comparing the exposure point concentrations with appropriate pre-determined response levels (response actions should also be pre-determined). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.
- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m<sup>3</sup>, work activities should be suspended

until controls are implemented and are successful in reducing the total particulate concentration to 150 mcg/m<sup>3</sup> or less at the monitoring point.

- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

**APPENDIX H**  
**CITIZENS PARTICIPATION PLAN**



Department of  
Environmental  
Conservation

# **Brownfield Cleanup Program**

## **Citizen Participation Plan for Block 417 New Rochelle**

February 2021

BCP Site #C360216  
327-329 Huguenot Street  
New Rochelle  
Westchester County, New York

## Contents

<u>Section</u>	<u>Page Number</u>
1. What is New York's Brownfield Cleanup Program? .....	3
2. Citizen Participation Activities.....	3
3. Major Issues of Public Concern.....	9
4. Site Information.....	10
5. Investigation and Cleanup Process .....	11
Appendix A - Project Contacts and Locations of Reports and Information .....	15
Appendix B - Site Contact List.....	16
Appendix C - Site Location Map.....	19
Appendix D - Brownfield Cleanup Program Process.....	20

\* \* \* \* \*

**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. Portions of this Citizen Participation Plan may be revised during the site's investigation and cleanup process.

Applicant: **RFMCH Huguenot Property Owner II LLC & RFMCH Huguenot Development Partners II LLC (“Applicants”)**

Site Name: **Block 417 New Rochelle (“Site”)**

Site Address: **327-329 Huguenot Street**

Site County: **Westchester County**

Site Number: **C360216**

## **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
- 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 web site. 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;
- 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;
- 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/chemical/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,

the significant threat determination for the site had not yet been made.

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)
<b>Application Process:</b>	
<ul style="list-style-type: none"> <li>• Prepare site contact list</li> <li>• Establish document repository(ies)</li> </ul>	At time of preparation of application to participate in the BCP.
<ul style="list-style-type: none"> <li>• Publish notice in Environmental Notice Bulletin (ENB) announcing receipt of application and 30-day public comment period</li> <li>• Publish above ENB content in local newspaper</li> <li>• Mail above ENB content to site contact list</li> <li>• Conduct 30-day public comment period</li> </ul>	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.
<b>After Execution of Brownfield Site Cleanup Agreement (BCA):</b>	
<ul style="list-style-type: none"> <li>• Prepare Citizen Participation (CP) Plan</li> </ul>	Before start of Remedial Investigation <b>Note:</b> Applicant must submit CP Plan to NYSDEC for review and approval within 20 days of the effective date of the BCA.
<b>Before NYSDEC Approves Remedial Investigation (RI) Work Plan:</b>	
<ul style="list-style-type: none"> <li>• Distribute fact sheet to site contact list about proposed RI activities and announcing 30-day public comment period about draft RI Work Plan</li> <li>• Conduct 30-day public comment period</li> </ul>	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.
<b>After Applicant Completes Remedial Investigation:</b>	
<ul style="list-style-type: none"> <li>• Distribute fact sheet to site contact list that describes RI results</li> </ul>	Before NYSDEC approves RI Report
<b>Before NYSDEC Approves Remedial Work Plan (RWP):</b>	
<ul style="list-style-type: none"> <li>• Distribute fact sheet to site contact list about draft RWP and announcing 45-day public comment period</li> <li>• Public meeting by NYSDEC about proposed RWP (if requested by affected community or at discretion of NYSDEC project manager)</li> <li>• Conduct 45-day public comment period</li> </ul>	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.

Citizen Participation Activities	Timing of CP Activity(ies)
<b>Before Applicant Starts Cleanup Action:</b>	
<ul style="list-style-type: none"> <li>• Distribute fact sheet to site contact list that describes upcoming cleanup action</li> </ul>	Before the start of cleanup action.
<b>After Applicant Completes Cleanup Action:</b>	
<ul style="list-style-type: none"> <li>• Distribute fact sheet to site contact list that announces that cleanup action has been completed and that NYSDEC is reviewing the Final Engineering Report</li> <li>• Distribute fact sheet to site contact list announcing NYSDEC approval of Final Engineering Report and issuance of Certificate of Completion (COC)</li> </ul>	At the time the cleanup action has been completed. <b>Note:</b> 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.

There will be areas on the Site where soil excavation is necessary. Therefore, once the remediation commences, there may be concerns regarding odors, noise or truck traffic coming from the Site. However, these impacts will be mitigated through implementation of a Health and Safety Plan and Soil Management Plan approved by the Department, which will be designed to minimize these impacts. A Community Air Monitoring Plan (CAMP) will also be implemented to monitor dust and vapors to ensure the community is not impacted. CAMP implementation involves the placement of air monitoring stations upwind and downwind of where work is occurring to capture both dust and vapor emissions. If dust or emissions exceed a set threshold established by DEC and the Department of Health, then work must cease and the cause of the issue must be corrected before work can proceed.

The site is located in 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 includes a community with a sizable Hispanic-American population, therefore, all future fact sheets will be translated into Spanish.

### **4. Site Information**

Appendix C contains a map identifying the location of the site.

#### *Site Description*

- **location - 327-329 Huguenot Street, New Rochelle, NY, Westchester County**
- **setting – urban, suburban**
- **site size – 0.344 acres**
- **adjacent properties – residential, commercial**

## *History of Site Use, Investigation, and Cleanup*

Maps from 1887 - 1903 depict the Site as a vacant lot. D. and L. Building company recorded a mortgage for the Site in May 1910. This may be when the contaminated historic fill soils were placed on the Site. In maps from 1911-1951, the Site is occupied by apartments and street level stores. The complex is identified as "D&L Apartments." In July 1915, Bonniecrest, Inc. purchased the property from Robertson T. Barrett, Referee, at a public auction. Jacob Malakoff became the owner of the Site in 1921. The Site was purchased by Irene Hendrick in July 1925. Ms Hendrick sold the Site to The Emigrant Industrial Savings Bank in 1938. In June 1939, The Emigrant Industrial Savings Bank transferred ownership of the Site to Thelma Portugh, who then transferred the property to Herald Management Corp. Samron Realty Corporation purchased the Site in December 1939. In June 1945, 1320-1328 Grant Avenue Corporation purchased the Site. Huguenot-Center Corporation purchased the site in June 1946. Maps between 1951 and 1992 show "D&L Apartments" are on the site, but the buildings were noted to be vacant. In January 1952, Leon Steinman and Sylvia Rubin purchased the site. Harry Crown purchased the Site in May 1956, and he sold the property to Ruth Crown in 1960. Salco Holding Corporation purchased the property in February 1962. Residential lists were associated with the Site in 1972. In 1986, Huguenot Arms Associates (c/o Danray Development Organization) purchased the site. Residential lists were associated with the Site in 1987. The City of New Rochelle acquired the Site through a condemnation proceeding in 1990. In the 1993 map, the apartments are no longer present. Therefore, the current parking lot, which is present on the Site now, is likely have been constructed by the City after building demolition. The Site has been a parking lot ever since this time.

## **5. Investigation and Cleanup Process**

### *Application*

The Applicant has applied for and been accepted into New York's Brownfield Cleanup Program as a Volunteer. This means that the Applicant was not responsible for the disposal or discharge of the contaminants or whose ownership or operation of the site took place after the discharge or disposal of contaminants. The Volunteer must fully characterize the nature and extent of contamination onsite, and must conduct a "qualitative exposure assessment," a process that characterizes 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 unrestricted 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 the responsibilities of each party in conducting these activities at the site.

### *Investigation*

The Applicants have completed a partial site investigation before it entered into the BCP. For the partial investigation, NYSDEC will determine if the data are useable. The applicants have submitted a Remedial Investigation Work Plan (RIWP) to complete the investigation of the site.

This upcoming 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 submitted draft Remedial Investigation Work Plan will be reviewed and approved by NYSDEC. The draft plan has been made available to the public review during a 30-day public comment period with the application.

### *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 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 final engineering report. 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):**

Michael Kilmer  
([Michael.kilmer@dec.ny.gov](mailto:Michael.kilmer@dec.ny.gov))

#### **New York State Department of Health (NYSDOH):**

### Locations of Reports and Information

The facilities identified below are being used to provide the public with convenient access to important project documents:

New Rochelle Public Library  
Tom Geoffino  
1 Library Plaza  
New Rochelle, NY 10801













Repositories are temporarily unavailable due to COVID-19 precautions. You can get information about this Site at


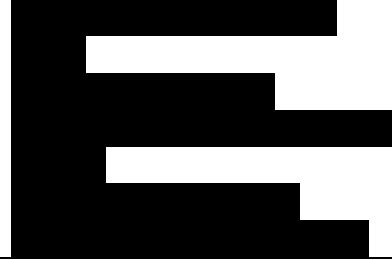

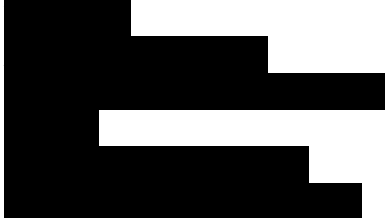
If you cannot access the online repository at <https://gisservices.dec.ny.gov/gis/dil/>, and specifically the link to the documents in relation to this site at \_\_\_\_\_

[https://www.dec.ny.gov/data/DecDocs\\_\\_\\_\\_\\_](https://www.dec.ny.gov/data/DecDocs_____) please contact the NYSDEC project manager listed above for assistance. Type in the site address when accessing this website and then click on DEC Information Layers link. In this link, click "Environmental Cleanup" and check all of the boxes. Then zoom in to see the documents of this site.

## Appendix B - Site Contact List

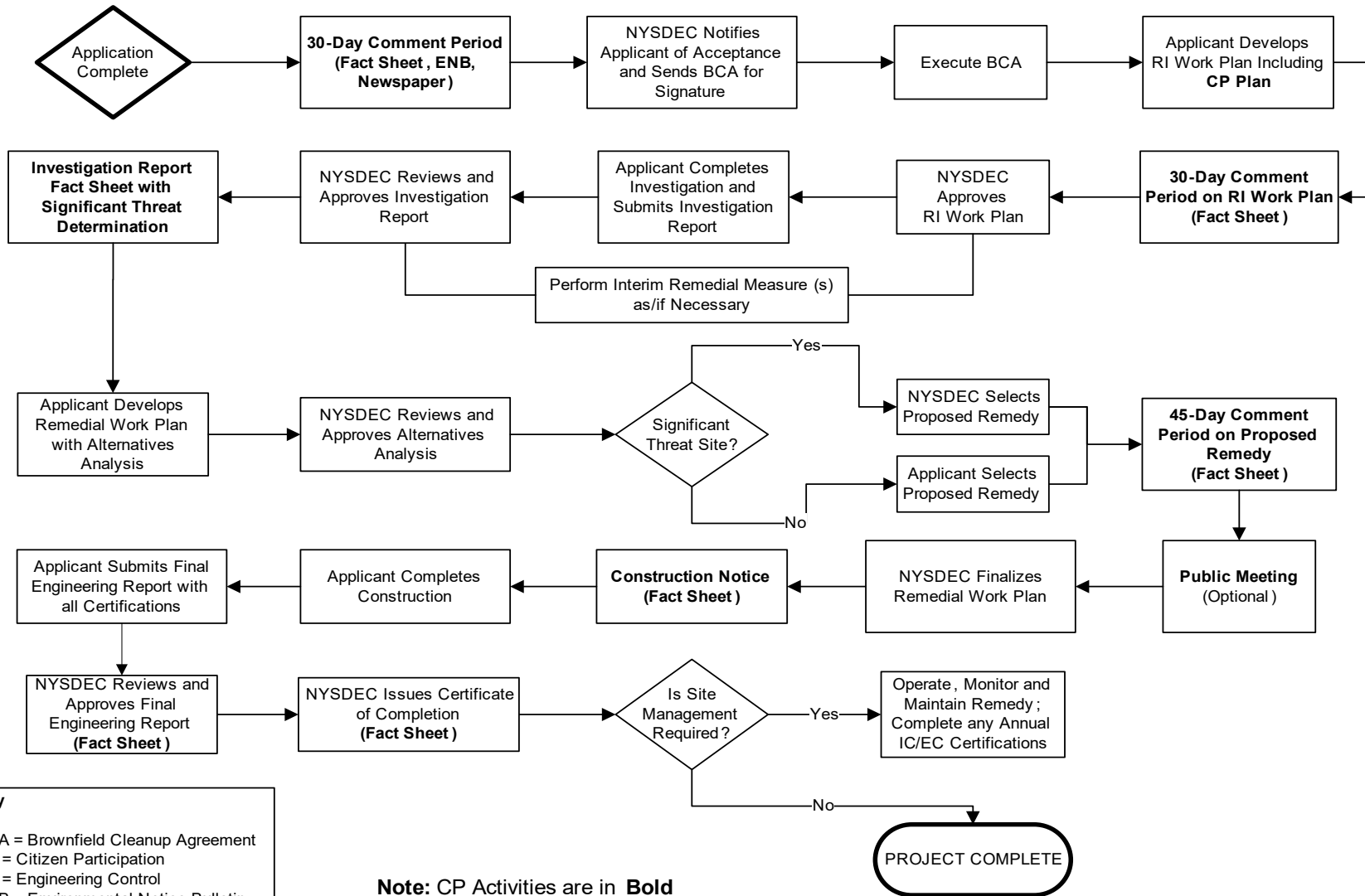
<b>Federal and State Officials</b>		
<p>Chuck E. Schumer U.S. Senate 780 Third Avenue, Suite 2301 New York, NY 10017</p>	<p>Kirsten Gillibrand U.S. Senate 780 Third Avenue, Suite 2601 New York, NY 10017</p>	<p>James Bowman U.S. House of Representatives, 16th District 6 Grammatan Avenue, Suite 205 Mt. Vernon, NY 10550</p>
<p>Andrea Stewart-Cousins New York State Senator, 35th District 28 Wells Avenue, Building #3 Yonkers, NY 10701</p>	<p>George Latimer Westchester County Executive 148 Martine Avenue White Plains, NY 10601</p>	<p>Richard Hyman Westchester County Planning Board 148 Martine Avenue White Plains, NY 10601</p>
<p>Noam Bramson Mayor of New Rochelle 515 North Avenue New Rochelle, NY 10801</p>	<p>Sarah C. Dobbs-Brown City of New Rochelle Planning Board, Chair 515 North Avenue, First Floor New Rochelle, NY 10801</p>	<p>Noam Bramson Mayor of The City of New Rochelle 515 North Avenue New Rochelle, NY 10801</p>
<b>Media Outlets</b>		
<p>The Journal News- Westchester Media Outlet 1133 Westchester Avenue, Suite N110 White Plains, NY 10604</p>		
<b>Public Water Supplier</b>		
<p>Katie Marino Mount Kisco Water Bureau, Public Water Supplier Village Hall (1st Floor) ,104 Main Street Mount Kisco, NY 10549</p>	<p>Westchester Joint Water Works Westchester Public Water Supplier 1625 Mamaroneck Ave Mamaroneck, NY 10543</p>	
<b>Schools and Daycare Centers</b>		
<p>Andrea Schwach</p>	<p>Michael Hilderbrand Trinity Elementary School, Principal</p>	<p>Michael Galland Columbus Elementary School, Principal</p>

<p>New Rochelle Stars Middle School, Campus Alternative School 50 Washington Avenue New Rochelle, NY 10801</p>	<p>180 Pelham Road New Rochelle, NY 10801</p>	<p>275 Washington Avenue New Rochelle, NY 10801</p>
<p>Tawanda Gerald Robinson Isaac E. Young Middle School, Principal 270 Centre Avenue New Rochelle, NY 10801</p>	<p>Deloris R. Hogan Dee's Tots Childcare, Administrator 166 Lincoln Avenue New Rochelle, NY 10801</p>	<p>Carmen M. Youngs Little Rascals Daycare 18 Badeau Place New Rochelle, NY 10801</p>
<p>Angela Sampogna The Learning Experience 1 Bally Place New Rochelle, NY 10801</p>	<p>Suzanne Prigoda Creative Learning Center 32 Le Count Place New Rochelle, NY 10801</p>	<p>Martha Mendoza Martha's Group Family Daycare 173 Elm Street New Rochelle, NY 10801</p>
<b>Adjacent Property Owners</b>		
		
		
		
		



# Appendix D– Brownfield Cleanup Program Process



**Key**  
 BCA = Brownfield Cleanup Agreement  
 CP = Citizen Participation  
 EC = Engineering Control  
 ENB = Environmental Notice Bulletin  
 IC = Institutional Control  
 RI = Remedial Investigation

**Note:** CP Activities are in **Bold**







Department of  
Environmental  
Conservation

Division of Environmental Remediation

## Remedial Programs Scoping Sheet for Major Issues of Public Concern (see instructions)

**Site Name:** Block 417 New Rochelle

**Site Number:** C360216

**Site Address and County:** 327-329 Huguenot Street, New Rochelle, NY, Westchester County

**Remedial Party(ies):** RFMCH Huguenot Property Owner II LLC & RFMCH Huguenot Development Partners II 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 1.** 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.

The list of potential impacts contained in the CPP are typical impacts of remediation on brownfield sites.

How were these issues and/or information needs identified?  
See response above.

**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.  
Nothing is needed from the community at this time

How were these information needs identified?  
NA

**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.  
Communication of each step in the BCP process must be communicated in Fact Sheets and public hearings if required.

How were these issues and/or information needs identified?  
This is part of the CPP process.

**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 of the water supply of the affected/interested community currently impacted by the site?

**Yes**    **No**

Provide details if appropriate:

[Click here to enter text.](#)

f. Other environmental issues significantly impacted/impacting the affected community?

**Yes**    **No**

Provide details if appropriate:

[Click here to enter text.](#)

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**:

Large Hispanic population

**Part 5.** The site contact list must include, at a minimum, the individuals, groups, and organizations identified in Part 2. of the Citizen Participation Plan under 'Site Contact List'. 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.)

**Non-Adjacent Residents/Property Owners:** [Click here to enter text.](#)

**Local Officials:** [Click here to enter text.](#)

**Media:** [Click here to enter text.](#)

**Business/Commercial Interests:** [Click here to enter text.](#)

**Labor Group(s)/Employees:** [Click here to enter text.](#)

**Indian Nation:** [Click here to enter text.](#)

**Citizens/Community Group(s):** [Click here to enter text.](#)

**Environmental Justice Group(s):** [Click here to enter text.](#)

**Environmental Group(s):** [Click here to enter text.](#)

**Civic Group(s):** [Click here to enter text.](#)

**Recreational Group(s):** [Click here to enter text.](#)

**Other(s):** [Click here to enter text.](#)

**Prepared/Updated By:** Linda R. Shaw, Esq.

**Date:** [Click here to enter text.](#)

**Reviewed Approved By:** [Click here to enter text.](#)

**Date:** [Click here to enter text.](#)