



Supplemental Phase II Environmental Site Assessment Report

FOR

**Lexington Development
85 North Lexington Avenue
White Plains, Westchester County, New York**

Prepared For:

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1.0 INTRODUCTION

SESI Consulting Engineers (SESI) has conducted this Phase II Environmental Site Assessment (Phase II ESA) on behalf of the GS White Plains Owner, LLC for the property located at 85 North Lexington Avenue in the City of White Plains, New York (Site). The Site is an approximately 1.53-acre property and is located on the west side of North Lexington Avenue, north of Hamilton Avenue, and is identified on the Westchester County tax maps as Tax ID 125:66-5-2 (50 Hamilton Avenue), and a portion of Lot 125:66-5-1 (85 North Lexington Avenue). The Site is bounded to the north by a bus depot and parking garage, to the south by an office building across Hamilton Avenue, to the east by a church across Lexington Avenue, and to the west by a parking lot across Ferris Avenue.

This report complies with the 2015 American Society for Testing and Materials standard (ASTM E1903). **Figure 1.1** presents a Site Location Map.

This Phase II ESA report summarizes the data of soil samples and soil vapor samples collected by SESI to further investigate the Site.

1.1 SITE SETTINGS

The Site consists of an approximate 1.53-acre parcel developed as a parking lot after 1950. The Site had been previously developed with commercial and industrial buildings. Based on the United States Geological Survey (USGS) topographic map, the Site elevation is approximately 200 feet above mean sea level (ft-msl) and slopes down from the east to west. The nearest surface water body is the Bronx River located 0.11 miles west of the Site.

1.2 PREVIOUS ENVIRONMENTAL REPORTS

Phase II Environmental Site Assessment (50 Hamilton Avenue P/O 85 North Lexington Avenue (July 2019))

In June and July 2019, SESI completed a preliminary Site investigation at the Site. The investigation included the following: installation of twenty-nine (29) soil borings and analysis of fifty-two (52) soil samples; installation and sampling of eight (8) soil vapor points; and installation of three (3) temporary well points and collection of three (3) groundwater samples.

Soil analytical results in 19 of 52 samples identified concentrations of metals, pesticides, and SVOCs in exceedance of the New York State Department NYSDEC Unrestricted Use Soil Cleanup Objectives (USCO). mercury (1 sample), benzo (b) fluoranthene (3 samples), indeno (1,2,3-cd) pyrene (2 samples), benzo(a)anthracene (1 sample), benzo(a)pyrene (1 sample) chrysene (1 sample) and dibenzo(a,h)anthracene (1 sample) were detected at concentrations that exceeded the NYSDEC Restricted Residential Soil Cleanup Objective (RRSCO).

Soil vapor analytical results identified concentrations of trichloroethylene in one (1) sample and vinyl chloride in two (2) samples at concentrations that exceeded New York State Department of Health (NYSDOH) sub-slab soil gas matrix values.

Groundwater analytical results did not identify concentrations of in exceedance of the NYSDEC Ambient Water Quality Standards (AWQS).

1.3 SITE HISTORY

Prior to 1950, the Site was utilized as a lumber and storage yard, a freight house with railroad transport access, a fire department, a builder supply storage facility and a wholesale feed supply and grinding company. Railroad operations continued on Lot 1 until the mid-1960s, when the site was taken over by urban renewal agencies and the structures on the railroad portion of the lot were razed and it became a parking lot. The Lot 2 portion of the Site was occupied by two service stations from the 1930s through 1960s. The Lot 2 portion of the Site was partially redeveloped into a parking lot in 1995 and fully redeveloped into the current parking lot sometime around 2006. These historical uses are depicted on **Figure 1.2**.

2.0 SUBSURFACE INVESTIGATION

2.1 SITE GEOLOGY

Based on soil borings conducted during this investigation and during SESI's Phase II investigation completed in April 2021 and waste classification sampling conducted in June 2021, subsurface geology generally consisted of brown medium to fine sand, with traces of fine gravel and silt from 0 to 12 feet below ground surface (ft-bg). Bedrock was not encountered in the borings.

2.2 SOIL BORINGS

Prior to conducting subsurface drilling, SESI's drilling contractor contacted New York's utility mark-out system. In addition, SESI retained American Geophysics, a private utility locator, to

locate underground utilities not included in the one-call and to conduct a geophysical survey using ground penetrating radar (GPR) and electromagnetic (EM) detection. The GPR/EM surveying was performed on April 6, 2021 and on June 14, 2021 to clear soil boring locations, as well as to search for a potential underground storage tank(s) (USTs). No anomalies consistent with USTs were identified. American Geophysics' report is provided in **Appendix A**.

The Phase II Investigation consisted of eighteen (18) soil borings, two (2) temporary wells, and four (4) soil vapor points completed using direct push Geoprobe® methodologies. All borings and observations were logged to identify the presence of staining, fill materials, volatile organic vapor concentrations, and groundwater depth. Two (2) groundwater samples and four (4) soil vapor samples were collected during the Phase II Investigation. The investigation was completed on April 6 through 8, 2021.

In addition to the Phase Investigation grab samples, a total of twenty four (24) composite samples were collected for waste characterization purposes on June 14 and 15, 2021. The waste characterization samples were collected at a frequency of 1 composite per 750 cubic yards (CY) of soils based on site grid of 50 foot-wide by 50 foot-long and 7 foot deep.

Table 2.1 below presents a list of the samples collected, the dates of sampling, installation method, depth, location and sample depth rationale, sample media, sample type, and analysis completed. **Figure 2.1** presents the soil boring locations. Soil boring logs are presented in **Appendix B**. Samples were delivered under chain-of-custody and analyzed at Alpha Analytical Laboratories (Alpha), a New York certified laboratory (NY Certification #11148). Soil samples were collected based on field screening, which included screening with a Photo Ionization Detector (PID), visual and olfactory observations. The soil samples were collected as a discrete grab samples and were not composited.

As noted in the table below, the soil samples were analyzed for Target Compound List +30 TICs/Target Analyte List (TCL+30/TAL) which includes total volatile organic Compounds (VOCs), semi-VOCs (SVOCs), target analyte list (TAL) metals (23 metals + cyanide), pesticides, and polychlorinated biphenyls (PCBs).

Table 2.1 – Sample Summary Table

| Location Name | Date | Installation Method | Boring Depth (ft) | Sample Depth (ft) | Sample Rationale | Sample Media | Anlyses |
|---------------|-----------|-------------------------|-------------------|-------------------|------------------------------------|--------------|---|
| 201 | 4/8/2021 | Direct Push (Geoprobe®) | 12 | 7.5-8 | Observed Fill | Soil | TCL+30/TAL |
| 202 | 4/6/2021 | Direct Push (Geoprobe®) | 12 | 10-10.5 | Observed Fill | Soil | TCL+30/TAL |
| 203 | 4/7/2021 | Direct Push (Geoprobe®) | 12 | 10-10.5 | Observed Fill | Soil | TCL+30/TAL |
| 204 | 4/7/2021 | Direct Push (Geoprobe®) | 12 | 5-5.5 | Observed Fill | Soil | TCL+30/TAL |
| 205 | 4/6/2021 | Direct Push (Geoprobe®) | 12 | 4-4.5 | PID Above Background | Soil | TCL+30/TAL |
| 206 | 4/6/2021 | Direct Push (Geoprobe®) | 12 | 4-4.5 | Observed Fill | Soil | TCL+30/TAL |
| 207 | 4/6/2021 | Direct Push (Geoprobe®) | 12 | 2-2.5 | Observed Fill | Soil | TCL+30/TAL |
| 208 | 4/7/2021 | Direct Push (Geoprobe®) | 12 | 2.5-3 | Observed Fill | Soil | TCL+30/TAL |
| 209 | 4/7/2021 | Direct Push (Geoprobe®) | 12 | 2.5-3 | Observed Fill | Soil | TCL+30/TAL |
| 210 | 4/7/2021 | Direct Push (Geoprobe®) | 12 | 3.5-4 | Observed Fill | Soil | TCL+30/TAL |
| 211 | 4/7/2021 | Direct Push (Geoprobe®) | 12 | 3.5-4 | Observed Fill | Soil | TCL+30/TAL |
| 212 | 4/7/2021 | Direct Push (Geoprobe®) | 12 | 3.5-4 | Observed Fill | Soil | TCL+30/TAL |
| 213 | 4/7/2021 | Direct Push (Geoprobe®) | 12 | 7-7.5 | PID Above Background | Soil | TCL+30/TAL |
| 214 | 4/7/2021 | Direct Push (Geoprobe®) | 12 | 7.8-8 | Observed Fill | Soil | TCL+30/TAL |
| 215 | 4/6/2021 | Direct Push (Geoprobe®) | 12 | 11.5-12.5 | PID Above Background | Soil | TCL+30/TAL |
| 216 | 4/6/2021 | Direct Push (Geoprobe®) | 12 | 10.5-11 | PID Above Background | Soil | TCL+30/TAL |
| 217 | 4/7/2021 | Direct Push (Geoprobe®) | 12 | 1-1.5 | Observed Fill | Soil | TCL+30/TAL |
| 218 | 4/7/2021 | Direct Push (Geoprobe®) | 12 | 3.5-4 | Observed Fill | Soil | TCL+30/TAL |
| WC-A1 | 6/14/2021 | Direct Push (Geoprobe®) | 18 | 0-7, 7-14, 14-18 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-A2 | 6/14/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-A3 | 6/15/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-A4 | 6/15/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-B1 | 6/14/2021 | Direct Push (Geoprobe®) | 18 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-B2 | 6/14/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-B3 | 6/15/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-B4 | 6/15/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-C1 | 6/14/2021 | Direct Push (Geoprobe®) | 18 | 0-7, 7-14, 14-18 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-C2 | 6/14/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-C3 | 6/15/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-C4 | 6/15/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-D1 | 6/14/2021 | Direct Push (Geoprobe®) | 18 | 0-7, 7-14, 14-18 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-D2 | 6/15/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-D3 | 6/15/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-D4 | 6/15/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-E1 | 6/14/2021 | Direct Push (Geoprobe®) | 18 | 0-7, 7-14, 14-18 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-E2 | 6/14/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-E3 | 6/14/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-E4 | 6/15/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-F1 | 6/14/2021 | Direct Push (Geoprobe®) | 18 | 0-7, 7-14, 14-18 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-F2 | 6/14/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-F3 | 6/15/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| WC-F4 | 6/15/2021 | Direct Push (Geoprobe®) | 21 | 0-7, 7-14, 14-21 | Waste Classification | Soil | TCL+30/TAL, Total EPH, RCRA Characteristics |
| TP-204 | 4/7/2021 | Direct Push (Geoprobe®) | 30 | 26.7 | NA | Groundw ater | TCL+30/TAL |
| TP-204 | 6/15/2021 | Direct Push (Geoprobe®) | 30 | 27 | NA | Groundw ater | PFAS |
| TP-213 | 4/7/2021 | Direct Push (Geoprobe®) | 25 | 18.5 | NA | Groundw ater | TCL+30/TAL |
| TP-213 | 6/15/2021 | Direct Push (Geoprobe®) | 30 | 21 | NA | Groundw ater | PFAS |
| TP-217 | 6/15/2021 | Direct Push (Geoprobe®) | 30 | 21 | NA | Groundw ater | PFAS |
| SV-201 | 4/8/2021 | Direct Push (Geoprobe®) | 10 | 10 | Within 2 feet of groundwater Table | Soil Vapor | TO-15 |
| SV-202 | 4/8/2021 | Direct Push (Geoprobe®) | 10 | 10 | | Soil Vapor | TO-15 |
| SV-203 | 4/8/2021 | Direct Push (Geoprobe®) | 10 | 10 | | Soil Vapor | TO-15 |
| SV-204 | 4/8/2021 | Direct Push (Geoprobe®) | 10 | 10 | | Soil Vapor | TO-15 |

Notes:

ft - Feet below grade surface.

2.3 GROUNDWATER INVESTIGATION

Three (3) borings were advanced into the groundwater table to install temporary monitoring wells, identified as TP-204, TP-213 and TP-17. Groundwater was observed at depths ranging between 18.5 to 26.7 ft-bg. The temporary monitoring well locations are provided in **Figure 2.1**. Groundwater samples were collected from the wells, delivered under chain-of-custody to Alpha Analytical Laboratories (Alpha), a New York certified laboratory (NY Certification #11148), and analyzed for TCL+30/TAL, and the 21 Per- and Polyfluoroalkyl Substances (PFAS). Sampling was performed using a peristaltic pumps and disposable tubing.

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 2.1**. The soil vapor samples were delivered under chain-of-custody to Alpha for EPA TO-15 analysis.

3.0 ANALYTICAL RESULTS

3.1 SOIL INVESTIGATION RESULTS

During the April 2021 Phase II Investigation, soil recovered from soil borings and temporary well points was inspected for evidence of historic fill materials, elevated volatile vapors, and staining. Soil mixed with trace brick materials was observed throughout the Site and is indicative of historic fill placement. Evidence of fill was observed from grade to depths up to 5 ft-bg. Soil analytical results summary tables are included in **Table 3.1**, which presents a summary of soil sampling data collected during the Phase II Investigation compared to the NYSDEC USCO, Restricted Use Soil Cleanup Objectives (RSCOs), and RRSCO. **Table 3.2** below and **Figure 3.1** includes a summary of the soil exceedances of the NYSDEC USCO, RSCOs, and RRSCO.

SVOCs were detected at concentrations that exceeded the USCO, RSCO, and RRSCO in three (3) samples (borings 211, 216, and 2017) at depths ranging from 1 to 11 ft-bgs. The SVOCs detected included polycyclic aromatic hydrocarbons (PAHs), which are commonly identified and associated with historic fill; therefore, the presence of PAHs in soil were attributed to the presence of historic fill.

Metals including copper, lead, mercury, nickel and zinc were detected in five (5) borings (201, 210, 211, 212, and 217) at concentrations exceeding the USCO at depths ranging from 1 to 4 ft-bgs. Iron was detected in each boring at concentration exceeding the RSCO. PCBs were detected in one boring (205) at concentrations that exceeded the USCO. The pesticide 4,4 DDT was detected in four (4) borings (201, 209, 211, and 213) at a depth of 7 to 7.5 ft-bgs that exceeded USCO. The horizontal and vertical dispersion suggests that these contaminants are associated with historic fill.

Table 3.2 – Phase II Soil Sample Exceedances

| LOCATION | | | | 201 | | 202 | | 203 | | 204 | | 205 | |
|------------------------|--------|------|-------|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|
| SAMPLING DATE | | | | 4/8/2021 | | 4/6/2021 | | 4/7/2021 | | 4/6/2021 | | 4/6/2021 | |
| LAB SAMPLE ID | | | | L2117728-01 | | L2117139-05 | | L2117439-10 | | L2117139-04 | | L2117139-03 | |
| SAMPLE TYPE | | | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| Analyte (mg/kg) | USCO | RSCO | RRSCO | Results | Q | Results | Q | Results | Q | Results | Q | Results | Q |
| 4,4-DDT | 0.0033 | 1.7 | 7.9 | 0.00713 | | 0.00365 | U | 0.00301 | J | 0.00318 | U | 0.00315 | U |
| Aroclor 1248 | 0.1 | 1 | 1 | 0.0348 | U | 0.0394 | U | 0.0342 | U | 0.0342 | U | 0.272 | |
| Benzo(a)anthracene | 1 | 1 | 1 | 0.25 | J | 0.12 | U | 0.18 | | 0.48 | | 0.18 | |
| Benzo(a)pyrene | 1 | 1 | 1 | 0.73 | U | 0.16 | U | 0.18 | | 0.42 | | 0.21 | |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 0.26 | J | 0.12 | U | 0.23 | | 0.61 | | 0.29 | |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | 0.55 | U | 0.12 | U | 0.076 | J | 0.16 | | 0.093 | J |
| Chrysene | 1 | 1 | 3.9 | 0.23 | J | 0.12 | U | 0.16 | | 0.43 | | 0.19 | |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | 0.55 | U | 0.12 | U | 0.026 | J | 0.069 | J | 0.034 | J |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | 0.73 | U | 0.16 | U | 0.12 | J | 0.31 | | 0.17 | |
| Copper, Total | 50 | 270 | 270 | 13.2 | | 14.1 | | 13.3 | | 6.22 | | 9.41 | |
| Iron, Total | | 2000 | | 9970 | | 13500 | | 12300 | | 4840 | | 8750 | |
| Lead, Total | 63 | 400 | 400 | 66.6 | | 2.89 | J | 6.96 | | 8.61 | | 26.7 | |
| Mercury, Total | 0.18 | 0.81 | 0.81 | 0.049 | J | 0.079 | U | 0.065 | U | 0.067 | U | 0.067 | U |
| Nickel, Total | 30 | 140 | 310 | 43.7 | | 10.1 | | 7.27 | | 3.62 | | 6.17 | |
| Zinc, Total | 109 | 2200 | 10000 | 83.5 | | 31.2 | | 24.6 | | 18.2 | | 39.7 | |

| LOCATION | | | | 206 | | 207 | | 208 | | 209 | | 210 | |
|------------------------|--------|------|-------|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|
| SAMPLING DATE | | | | 4/6/2021 | | 4/6/2021 | | 4/7/2021 | | 4/7/2021 | | 4/7/2021 | |
| LAB SAMPLE ID | | | | L2117139-02 | | L2117139-01 | | L2117439-05 | | L2117439-07 | | L2117439-06 | |
| ANALYTE (mg/kg) | USCO | RSCO | RRSCO | Results | Q | Results | Q | Results | Q | Results | Q | Results | Q |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | 0.0031 | U | 0.00343 | U | 0.0036 | U | 0.00646 | U | 0.00609 | U |
| Aroclor 1248 | 0.1 | 1 | 1 | 0.0355 | U | 0.038 | U | 0.0407 | U | 0.0348 | U | 0.0342 | U |
| Benzo(a)anthracene | 1 | 1 | 1 | 0.055 | J | 0.22 | | 0.52 | | 0.18 | | 0.21 | |
| Benzo(a)pyrene | 1 | 1 | 1 | 0.14 | U | 0.19 | | 0.63 | | 0.22 | | 0.23 | |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 0.071 | J | 0.29 | | 0.84 | | 0.31 | | 0.31 | |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | 0.11 | U | 0.089 | J | 0.28 | | 0.1 | | 0.088 | J |
| Chrysene | 1 | 1 | 3.9 | 0.066 | J | 0.28 | | 0.58 | | 0.22 | | 0.21 | |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | 0.11 | U | 0.033 | J | 0.1 | J | 0.039 | J | 0.042 | J |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | 0.033 | J | 0.14 | J | 0.46 | | 0.18 | | 0.15 | |
| Copper, Total | 50 | 270 | 270 | 15.8 | | 17 | | 7.1 | | 25.1 | | 112 | |
| Iron, Total | | 2000 | | 16200 | | 13900 | | 13200 | | 16300 | | 30700 | |
| Lead, Total | 63 | 400 | 400 | 5.18 | | 61.7 | | 15 | | 54.3 | | 98.9 | |
| Mercury, Total | 0.18 | 0.81 | 0.81 | 0.068 | U | 0.124 | | 0.077 | U | 0.052 | J | 0.094 | |
| Nickel, Total | 30 | 140 | 310 | 12.2 | | 9.64 | | 8.69 | | 13.8 | | 59.9 | |
| Zinc, Total | 109 | 2200 | 10000 | 31.8 | | 51.6 | | 38.1 | | 69.2 | | 154 | |

| LOCATION | | | | 211 | | 212 | | 213 | | 214 | | 215 | |
|------------------------|--------|------|-------|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|
| SAMPLING DATE | | | | 4/7/2021 | | 4/7/2021 | | 4/7/2021 | | 4/7/2021 | | 4/6/2021 | |
| LAB SAMPLE ID | | | | L2117439-08 | | L2117439-09 | | L2117439-12 | | L2117439-11 | | L2117139-06 | |
| SAMPLE TYPE | | | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| ANALYTE (mg/kg) | USCO | RSCO | RRSCO | Results | Q | Results | Q | Results | Q | Results | Q | Results | Q |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | 0.00787 | | 0.0158 | U | 0.00906 | | 0.00303 | U | 0.00298 | U |
| Aroclor 1248 | 0.1 | 1 | 1 | 0.0346 | U | 0.0346 | U | 0.0342 | U | 0.0337 | U | 0.0328 | U |
| Benzo(a)anthracene | 1 | 1 | 1 | 2.6 | | 0.31 | J | 0.27 | | 0.1 | U | 0.045 | J |
| Benzo(a)pyrene | 1 | 1 | 1 | 2.5 | | 1.4 | U | 0.28 | | 0.14 | U | 0.042 | J |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 3.4 | | 0.4 | J | 0.37 | | 0.046 | J | 0.055 | J |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | 1.1 | | 1 | U | 0.1 | | 0.1 | U | 0.1 | U |
| Chrysene | 1 | 1 | 3.9 | 2.6 | | 0.31 | J | 0.27 | | 0.042 | J | 0.043 | J |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | 0.34 | | 1 | U | 0.044 | J | 0.1 | U | 0.1 | U |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | 1.8 | | 1.4 | U | 0.18 | | 0.14 | U | 0.032 | J |
| Copper, Total | 50 | 270 | 270 | 39.9 | | 14.8 | | 15.7 | | 11.2 | | 12.1 | |
| Iron, Total | | 2000 | | 14600 | | 13500 | | 8900 | | 9190 | | 12200 | |
| Lead, Total | 63 | 400 | 400 | 274 | | 214 | | 21.2 | | 14.7 | | 19.6 | |
| Mercury, Total | 0.18 | 0.81 | 0.81 | 0.338 | | 0.142 | | 0.066 | U | 0.065 | U | 0.055 | J |
| Nickel, Total | 30 | 140 | 310 | 12 | | 11.2 | | 7.3 | | 6.42 | | 9.88 | |
| Zinc, Total | 109 | 2200 | 10000 | 150 | | 104 | | 37.2 | | 38.4 | | 33.8 | |

| LOCATION | | | | 216 | | 217 | | 218 | |
|------------------------|--------|------|-------|-------------|---|-------------|---|-------------|---|
| SAMPLING DATE | | | | 4/6/2021 | | 4/7/2021 | | 4/7/2021 | |
| LAB SAMPLE ID | | | | L2117139-07 | | L2117439-03 | | L2117439-04 | |
| SAMPLE DEPTH (ft.) | | | | | | | | | |
| ANALYTE (mg/kg) | USCO | RSCO | RRSCO | Results | Q | Results | Q | Results | Q |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | 0.00312 | U | 0.00321 | U | 0.0031 | U |
| Aroclor 1248 | 0.1 | 1 | 1 | 0.0149 | J | 0.0802 | | 0.0336 | U |
| Benzo(a)anthracene | 1 | 1 | 1 | 4.5 | | 1.8 | | 0.16 | |
| Benzo(a)pyrene | 1 | 1 | 1 | 3.8 | | 1.8 | | 0.16 | |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 5.1 | | 2.8 | | 0.21 | |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | 1.3 | | 0.88 | | 0.076 | J |
| Chrysene | 1 | 1 | 3.9 | 4 | | 2.1 | | 0.16 | |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | 0.89 | | 0.33 | | 0.026 | J |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | 3.2 | | 1.4 | | 0.12 | J |
| Copper, Total | 50 | 270 | 270 | 12.1 | | 41.7 | | 7.21 | |
| Iron, Total | | 2000 | | 9130 | | 16100 | | 11800 | |
| Lead, Total | 63 | 400 | 400 | 26 | | 124 | | 6.16 | |
| Mercury, Total | 0.18 | 0.81 | 0.81 | 0.067 | U | 0.286 | | 0.066 | U |
| Nickel, Total | 30 | 140 | 310 | 7.24 | | 10.9 | | 8.42 | |
| Zinc, Total | 109 | 2200 | 10000 | 39.8 | | 97.5 | | 23.4 | |

Notes:

mg/kg – milligrams per kilogram
 J – Concentration is estimated

| |
|---------------------------------|
| Concentration Exceeds USCO |
| Concentration Exceeds the RSCO |
| Concentration Exceeds the RRSCO |

Soil analytical results summary tables are included in **Tables 3.3**, which presents a summary of soil sampling data collected during the Waste Classification sampling compared to the NYSDEC USCO, Restricted Use Soil Cleanup Objectives (RSCOs), and RRSCO. **Table 3.4** below and **Figure 3.1** include a summary of the soil exceedances of the NYSDEC USCO, RSCOs, and RRSCO.

The SVOCs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene were detected at concentrations exceeding the RRSCOs in four (4) soil samples collected from four (4) soil borings at depths ranging from 7 to 21 ft-bgs.

Barium was detected in one soil sample at concentrations exceeding the RSRCOs at a depth of 7 ft-bgs. Iron was detected in each boring and sample collected at concentrations exceeding the RSCOs at depths ranging from 7 to 21 ft-bgs. Cadmium was detected in one soil sample at a concentration exceeding the USCO at depth of 7 ft-bgs. Lead was detected at concentrations exceeding the USCOS in seven (7) soil samples collected from seven (7) soil borings at depth ranging from 7 to 18 ft-bgs. Mercury was detected at concentrations exceeding the USCOS in three (3) soil samples collected from three (3) soil borings at depth ranging from 7 to 18 ft-bgs. Zinc at concentrations exceeding the USCOS in four (4) soil samples collected from four (4) soil borings at depth ranging from 7 to 18 ft-bgs.

Table 3.4 – Waste Classification Soil Sample Exceedances

| LOCATION SAMPLING DATE SAMPLE DEPTH (ft.) | USCO | RSCO | RRSCO | WC-A1 (0-7) | WC-A1 (7-14) | WC-A1 (14-18) | WC-A2 (0-7) | WC-A2 (7-14) | WC-A2 (14-21) |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------|-----------------|-----------------|
| | | | | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 |
| Analyte (mg/kg) | | | | 0-7 | 7-14 | 14-18 | 0-7 | 7-14 | 14-21 |
| | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) |
| Benzo(a)anthracene | 1 | 1 | 1 | 0.0507 | ND (0.037) | ND (0.037) | 0.235 | 0.221 | ND (0.035) |
| Benzo(a)pyrene | 1 | 1 | 1 | 0.0565 | ND (0.037) | ND (0.037) | 0.254 | 0.175 | ND (0.035) |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 0.0696 | ND (0.037) | ND (0.037) | 0.319 | 0.28 | ND (0.035) |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | 0.0256 | ND (0.037) | ND (0.037) | 0.119 | 0.0942 | ND (0.035) |
| Chrysene | 1 | 1 | 3.9 | 0.0582 | ND (0.037) | ND (0.037) | 0.224 | 0.282 | ND (0.035) |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | ND (0.036) | ND (0.037) | ND (0.037) | 0.0475 ° | 0.0515 ° | ND (0.035) ° |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | 0.0343 | ND (0.037) | ND (0.037) | 0.226 | 0.183 | ND (0.035) |
| Aroclor 1242 | 0.1 | 1 | 1 | ND (0.036) | ND (0.037) | ND (0.035) | ND (0.035) | ND (0.035) | ND (0.034) |
| Aroclor 1248 | 0.1 | 1 | 1 | ND (0.036) | ND (0.037) | ND (0.035) | ND (0.035) | ND (0.035) | ND (0.034) |
| Aroclor 1260 | 0.1 | 1 | 1 | ND (0.036) | ND (0.037) | ND (0.035) | ND (0.035) | ND (0.035) | ND (0.034) |
| 4,4'-DDE | 0.0033 | 1.8 | 8.9 | ND (0.00071) | ND (0.00073) | ND (0.00071) | 0.0019 ^f | ND (0.00070) | ND (0.00069) |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | ND (0.00071) | ND (0.00073) | ND (0.00071) | 0.0072 ^f | ND (0.00070) | ND (0.00069) |
| Barium, Total | 350 | 350 | 400 | 49.4 | 35.8 | 28.3 | 69.6 | 90 | 77.2 |
| Cadmium, Total | 2.5 | 2.5 | 4.3 | <0.56 | <0.55 | <0.58 | <0.52 | <0.54 | <0.52 |
| Copper, Total | 50 | 270 | 270 | 15.3 | 12.1 | 6.9 | 24.6 | 19.3 | 14.3 |
| Iron, Total | - | 2000 | - | 11200 | 8350 | 8770 | 16500 | 16400 | 13800 |
| Lead, Total | 63 | 400 | 400 | 49.8 | <2.2 | <2.3 | 50.6 | 11.9 | 2.8 |
| Mercury, Total | 0.18 | 0.81 | 0.81 | <0.025 | <0.026 | <0.026 | 0.066 | <0.025 | <0.025 |
| Zinc, Total | 109 | 2200 | 10000 | 53.7 | 21 | 18.8 | 81.7 | 52.3 | 38.5 |

| | SAMPLING DATE | | | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 |
|------------------------|--------------------|------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | SAMPLE DEPTH (ft.) | | | 0-7 | 7-14 | 14-21 | 0-7 | 7-14 | 14-21 |
| | USCO | RSCO | RRSCO | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) |
| Benzo(a)anthracene | 1 | 1 | 1 | 0.0939 | ND (0.035) | 0.231 | ND (0.035) | 0.21 | ND (0.034) |
| Benzo(a)pyrene | 1 | 1 | 1 | 0.0986 | ND (0.035) | 0.197 | ND (0.035) | 0.18 | ND (0.034) |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 0.111 | ND (0.035) | 0.301 | ND (0.035) | 0.276 | ND (0.034) |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | 0.0384 | ND (0.035) | 0.105 | ND (0.035) | 0.0905 | ND (0.034) |
| Chrysene | 1 | 1 | 3.9 | 0.0756 | ND (0.035) | 0.299 | ND (0.035) | 0.265 | ND (0.034) |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | ND (0.038) | ND (0.035) | 0.0449 | ND (0.035) | 0.0359 | ND (0.034) |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | 0.05 | ND (0.035) | 0.125 | ND (0.035) | 0.106 | ND (0.034) |
| Aroclor 1242 | 0.1 | 1 | 1 | ND (0.035) | ND (0.034) | ND (0.034) | ND (0.033) | ND (0.032) | ND (0.034) |
| Aroclor 1248 | 0.1 | 1 | 1 | ND (0.035) | ND (0.034) | ND (0.034) | ND (0.033) | ND (0.032) | ND (0.034) |
| Aroclor 1260 | 0.1 | 1 | 1 | ND (0.035) | ND (0.034) | ND (0.034) | ND (0.033) | ND (0.032) | ND (0.034) |
| 4,4'-DDE | 0.0033 | 1.8 | 8.9 | ND (0.00071) | ND (0.00068) | ND (0.00068) | ND (0.00067) | ND (0.00064) | ND (0.00067) |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | ND (0.00071) | ND (0.00068) | ND (0.00068) | ND (0.00067) | ND (0.00064) | ND (0.00067) |
| Barium, Total | 350 | 350 | 400 | 63.1 | 35.9 | 39.9 | 68.9 | 22.9 | 31.3 |
| Cadmium, Total | 2.5 | 2.5 | 4.3 | <0.61 | <0.51 | <0.52 | <0.52 | <0.55 | <0.50 |
| Copper, Total | 50 | 270 | 270 | 6.8 | 8.2 | 13.2 | 18.3 | 9.6 | 8.5 |
| Iron, Total | - | 2000 | - | 16500 | 14500 | 12800 | 15600 | 7430 | 7940 |
| Lead, Total | 63 | 400 | 400 | 13.8 | 3.3 | 12.3 | 4.3 | 3.1 | 2.2 |
| Mercury, Total | 0.18 | 0.81 | 0.81 | <0.033 | <0.031 | <0.030 | <0.027 | <0.025 | <0.028 |
| Zinc, Total | 109 | 2200 | 10000 | 47.8 | 33.7 | 34.5 | 42.1 | 18.6 | 18.3 |

| | LOCATION | | | WC-B1 (0-7) | WC-B1 (7-14) | WC-B1 (14-18) | WC-B2 (0-7) | WC-B2 (7-14) | WC-B2 (14-21) |
|------------------------|--------------------|------|-------|-----------------|-----------------|-----------------|---------------------|-------------------------|-------------------------|
| | SAMPLING DATE | | | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 |
| | SAMPLE DEPTH (ft.) | | | 0-7 | 7-14 | 14-18 | 0-7 | 7-14 | 14-21 |
| | USCO | RSCO | RRSCO | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) |
| Benzo(a)anthracene | 1 | 1 | 1 | ND (0.036) | 0.0132 | 0.0138 | 0.249 | ND (0.035) | ND (0.033) |
| Benzo(a)pyrene | 1 | 1 | 1 | ND (0.036) | ND (0.038) | ND (0.038) | 0.274 | ND (0.035) | ND (0.033) |
| Benzo(b)fluoranthene | 1 | 1 | 1 | ND (0.036) | ND (0.038) | ND (0.038) | 0.358 | ND (0.035) | ND (0.033) |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | ND (0.036) | ND (0.038) | ND (0.038) | 0.119 | ND (0.035) | ND (0.033) |
| Chrysene | 1 | 1 | 3.9 | ND (0.036) | 0.0153 | 0.0121 | 0.237 | ND (0.035) | ND (0.033) |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | ND (0.036) | ND (0.038) | ND (0.038) | 0.0617 ^e | ND (0.035) ^a | ND (0.033) ^a |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | ND (0.036) | ND (0.038) | ND (0.038) | 0.26 | ND (0.035) | ND (0.033) |
| Aroclor 1242 | 0.1 | 1 | 1 | ND (0.036) | ND (0.035) | ND (0.036) | ND (0.036) | ND (0.033) | ND (0.033) |
| Aroclor 1248 | 0.1 | 1 | 1 | ND (0.036) | ND (0.035) | ND (0.036) | ND (0.036) | ND (0.033) | ND (0.033) |
| Aroclor 1260 | 0.1 | 1 | 1 | ND (0.036) | ND (0.035) | ND (0.036) | ND (0.036) | ND (0.033) | ND (0.033) |
| 4,4'-DDE | 0.0033 | 1.8 | 8.9 | ND (0.00072) | ND (0.00071) | ND (0.00071) | ND (0.00072) | ND (0.00067) | ND (0.00065) |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | ND (0.00072) | ND (0.00071) | ND (0.00071) | ND (0.00072) | ND (0.00067) | ND (0.00065) |
| Barium, Total | 350 | 350 | 400 | <22 | 26.6 | 38 | 70.7 | 28.7 | 54.8 |
| Cadmium, Total | 2.5 | 2.5 | 4.3 | <0.56 | <0.56 | <0.57 | <0.53 | <0.53 | <0.49 |
| Copper, Total | 50 | 270 | 270 | 8.4 | 9.1 | 9.1 | 20.8 | 10.2 | 12.8 |
| Iron, Total | - | 2000 | - | 8110 | 8480 | 9920 | 12100 | 8280 | 9940 |
| Lead, Total | 63 | 400 | 400 | 2.5 | <2.2 | 3 | 132 | 6.3 | 3.1 |
| Mercury, Total | 0.18 | 0.81 | 0.81 | <0.025 | <0.027 | <0.028 | 0.29 | <0.031 | <0.023 |
| Zinc, Total | 109 | 2200 | 10000 | 15.2 | 17.6 | 37.2 | 91.8 | 22.7 | 26.2 |

| | LOCATION | | | WC-B3 (0-7) | WC-B3 (7-14) | WC-B3 (14-21) | WC-B4 (0-7) | WC-B4 (7-14) | WC-B4 (14-21) |
|------------------------|--------------------|------|-------|-----------------|-----------------|-----------------|--------------------|-------------------|-----------------|
| | SAMPLING DATE | | | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 |
| | SAMPLE DEPTH (ft.) | | | 0-7 | 7-14 | 14-21 | 0-7 | 7-14 | 14-21 |
| | USCO | RSCO | RRSCO | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) |
| Benzo(a)anthracene | 1 | 1 | 1 | 0.0135 | ND (0.034) | ND (0.033) | 0.0117 | 0.0448 | ND (0.034) |
| Benzo(a)pyrene | 1 | 1 | 1 | ND (0.035) | ND (0.034) | ND (0.033) | ND (0.033) | 0.043 | ND (0.034) |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 0.0168 | ND (0.034) | ND (0.033) | ND (0.033) | 0.0662 | ND (0.034) |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | ND (0.035) | ND (0.034) | ND (0.033) | ND (0.033) | 0.0211 | ND (0.034) |
| Chrysene | 1 | 1 | 3.9 | 0.0117 | ND (0.034) | ND (0.033) | ND (0.033) | 0.0585 | ND (0.034) |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | ND (0.035) | ND (0.034) | ND (0.033) | ND (0.033) | ND (0.035) | ND (0.034) |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | ND (0.035) | ND (0.034) | ND (0.033) | ND (0.033) | 0.0386 | ND (0.034) |
| Aroclor 1242 | 0.1 | 1 | 1 | ND (0.035) | ND (0.033) | ND (0.035) | ND (0.031) | ND (0.034) | ND (0.033) |
| Aroclor 1248 | 0.1 | 1 | 1 | ND (0.035) | ND (0.033) | ND (0.035) | ND (0.031) | ND (0.034) | ND (0.033) |
| Aroclor 1260 | 0.1 | 1 | 1 | ND (0.035) | ND (0.033) | ND (0.035) | ND (0.031) | ND (0.034) | ND (0.033) |
| 4,4'-DDE | 0.0033 | 1.8 | 8.9 | ND (0.00071) | ND (0.00065) | ND (0.00069) | ND (0.00063) | ND (0.00068) | ND (0.00066) |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | ND (0.00071) | ND (0.00065) | ND (0.00069) | ND (0.00063) | ND (0.00068) | ND (0.00066) |
| Barium, Total | 350 | 350 | 400 | 22.2 | <22 | 38.2 | 95.9 | 64.8 | 26.2 |
| Cadmium, Total | 2.5 | 2.5 | 4.3 | <0.54 | <0.54 | <0.55 | <0.53 | <0.53 | <0.48 |
| Copper, Total | 50 | 270 | 270 | 10.9 | 5.4 | 12.4 | 19.9 ^l | 21.9 ^l | 9.8 |
| Iron, Total | - | 2000 | - | 14000 | 6720 | 10400 | 22700 ^l | 20900 | 10100 |
| Lead, Total | 63 | 400 | 400 | 6.6 | <2.2 | <2.2 | 8.7 ^l | 6.4 ^l | 2.6 |
| Mercury, Total | 0.18 | 0.81 | 0.81 | <0.027 | <0.024 | <0.029 | <0.026 | <0.027 | <0.024 |
| Zinc, Total | 109 | 2200 | 10000 | 34 | 19.4 | 19.7 | 47.2 | 51.9 | 22.5 |

| | LOCATION | | | WC-C1 (0-7) | WC-C1 (7-14) | WC-C1 (14-18) | WC-C2 (0-7) | WC-C2 (7-14) | WC-C2 (14-21) |
|------------------------|--------------------|------|-------|-----------------|-----------------|-----------------|---------------------|---------------------------|-----------------|
| | SAMPLING DATE | | | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 |
| | SAMPLE DEPTH (ft.) | | | 0-7 | 7-14 | 14-18 | 0-7 | 7-14 | 14-21 |
| | USCO | RSCO | RRSCO | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) |
| Benzo(a)anthracene | 1 | 1 | 1 | 0.128 | 0.235 | ND (0.037) | 0.0693 | 0.227 | ND (0.034) |
| Benzo(a)pyrene | 1 | 1 | 1 | 0.136 | 0.214 | ND (0.037) | 0.0746 | 0.243 | ND (0.034) |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 0.186 | 0.318 | ND (0.037) | 0.0999 | 0.281 | ND (0.034) |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | 0.0589 | 0.0925 | ND (0.037) | 0.0366 | 0.104 | ND (0.034) |
| Chrysene | 1 | 1 | 3.9 | 0.125 | 0.309 | ND (0.037) | 0.0701 | 0.24 | ND (0.034) |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | 0.0311 | 0.0394 | ND (0.037) | 0.0186 | 0.0545 | ND (0.034) |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | 0.0889 | 0.136 | ND (0.037) | 0.0937 | 0.202 | ND (0.034) |
| Aroclor 1242 | 0.1 | 1 | 1 | ND (0.035) | ND (0.034) | ND (0.034) | ND (0.037) | ND (0.035) | ND (0.033) |
| Aroclor 1248 | 0.1 | 1 | 1 | ND (0.035) | ND (0.034) | ND (0.034) | ND (0.037) | ND (0.035) | ND (0.033) |
| Aroclor 1260 | 0.1 | 1 | 1 | ND (0.035) | ND (0.034) | ND (0.034) | ND (0.037) | ND (0.035) | ND (0.033) |
| 4,4'-DDE | 0.0033 | 1.8 | 8.9 | ND (0.00069) | ND (0.00067) | ND (0.00068) | ND (0.00074) | ND (0.00071) | ND (0.00066) |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | 0.001 | ND (0.00067) | ND (0.00068) | 0.0011 ⁱ | 0.0066^f | ND (0.00066) |
| Barium, Total | 350 | 350 | 400 | 37.9 | <21 | 39.3 | 41.6 | 88.8 | 54.6 |
| Cadmium, Total | 2.5 | 2.5 | 4.3 | <0.51 | <0.54 | <0.56 | <0.55 | <0.52 | <0.49 |
| Copper, Total | 50 | 270 | 270 | 22.9 | 7.3 | 9.5 | 30.3 | 32.6 | 11.9 |
| Iron, Total | - | 2000 | - | 11500 | 6520 | 7920 | 11700 | 25500^j | 10500 |
| Lead, Total | 63 | 400 | 400 | 24.7 | 2.3 | 2.4 | 10.5 | 93.2 | 3.1 |
| Mercury, Total | 0.18 | 0.81 | 0.81 | 0.045 | 0.03 | <0.026 | 0.17 | 0.088 | <0.029 |
| Zinc, Total | 109 | 2200 | 10000 | 45.8 | 14.6 | 20.6 | 38.6 | 89.7 | 24.4 |

| | LOCATION | | | WC-C3 (0-7) | WC-C3 (7-14) | WC-C3 (14-21) | WC-C4 (0-7) | WC-C4 (7-14) | WC-C4 (14-21) |
|------------------------|--------------------|------|-------|-----------------|---------------------------|---------------------|---------------------|-----------------|-----------------|
| | SAMPLING DATE | | | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 |
| | SAMPLE DEPTH (ft.) | | | 0-7 | 7-14 | 14-21 | 0-7 | 7-14 | 14-21 |
| | USCO | RSCO | RRSCO | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) |
| Benzo(a)anthracene | 1 | 1 | 1 | 2.61 | 0.244 | 0.239 | 4.08 | 0.0456 | ND (0.035) |
| Benzo(a)pyrene | 1 | 1 | 1 | 2.45 | 0.283 | 0.204 | 3.2 | 0.0444 | ND (0.035) |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 3.19 | 0.33 | 0.297 | 4.18 | 0.0707 | ND (0.035) |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | 0.983 | 0.0986 | 0.106 | 1.43 | 0.0314 | ND (0.035) |
| Chrysene | 1 | 1 | 3.9 | 2.44 | 0.29 | 0.299 | 4.27 | 0.0691 | ND (0.035) |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | 0.442 | 0.0522 | 0.0447 | 0.484 | ND (0.034) | ND (0.035) |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | 1.44 | 0.143 | 0.14 | 2.13 | 0.0304 | ND (0.035) |
| Aroclor 1242 | 0.1 | 1 | 1 | ND (0.037) | ND (0.035) | ND (0.033) | 0.417 | ND (0.032) | ND (0.034) |
| Aroclor 1248 | 0.1 | 1 | 1 | ND (0.037) | ND (0.035) | 0.0383 | ND (0.034) | ND (0.032) | ND (0.034) |
| Aroclor 1260 | 0.1 | 1 | 1 | ND (0.037) | ND (0.035) | ND (0.033) | ND (0.034) | ND (0.032) | ND (0.034) |
| 4,4'-DDE | 0.0033 | 1.8 | 8.9 | ND (0.00074) | ND (0.00071) | 0.0012 ^h | ND (0.00068) | ND (0.00065) | ND (0.00067) |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | 0.0028 | 0.0042^f | 0.0042 | 0.0028 ^f | ND (0.00065) | ND (0.00067) |
| Barium, Total | 350 | 350 | 400 | 129 | 43.8 | 47.6 | 91.2 | 52.5 | 33.4 |
| Cadmium, Total | 2.5 | 2.5 | 4.3 | <0.59 | <0.53 | <0.53 | <0.58 | <0.52 | <0.54 |
| Copper, Total | 50 | 270 | 270 | 16.5 | 14.8 | 50.2 | 33.7 | 13.9 | 10.1 |
| Iron, Total | - | 2000 | - | 12900 | 11300 | 16100 | 18600 | 13100 | 10800 |
| Lead, Total | 63 | 400 | 400 | 158 | 36.3 | 40.8 | 134 | 3.5 | 2.3 |
| Mercury, Total | 0.18 | 0.81 | 0.81 | 0.12 | 0.11 | 0.028 | 0.25 | <0.032 | <0.027 |
| Zinc, Total | 109 | 2200 | 10000 | 121 | 62.5 | 64.8 | 106 | 35.4 | 20.2 |

| | LOCATION | | | WC-D1 (0-7) | WC-D1 (7-14) | WC-D1 (14-18) | WC-D2 (0-7) | WC-D2 (7-14) | WC-D2 (14-21) |
|------------------------|--------------------|------|-------|-----------------|-----------------|-----------------|---------------------|-----------------|---------------------|
| | SAMPLING DATE | | | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 |
| | SAMPLE DEPTH (ft.) | | | 0-7 | 7-14 | 14-18 | 0-7 | 7-14 | 14-21 |
| | USCO | RSCO | RRSCO | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) |
| Benzo(a)anthracene | 1 | 1 | 1 | ND (0.034) | ND (0.039) | ND (0.034) | 0.16 | 0.461 | 0.0469 |
| Benzo(a)pyrene | 1 | 1 | 1 | ND (0.034) | ND (0.039) | ND (0.034) | 0.144 | 0.318 | 0.0807 |
| Benzo(b)fluoranthene | 1 | 1 | 1 | ND (0.034) | ND (0.039) | ND (0.034) | 0.201 | 0.606 | 0.151 |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | ND (0.034) | ND (0.039) | ND (0.034) | 0.0733 | 0.153 | 0.0463 |
| Chrysene | 1 | 1 | 3.9 | ND (0.034) | ND (0.039) | ND (0.034) | 0.166 | 0.682 | 0.0915 |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | ND (0.034) | ND (0.039) | ND (0.034) | ND (0.039) | 0.0744 | ND (0.041) |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | ND (0.034) | ND (0.039) | ND (0.034) | 0.0692 | 0.203 | 0.0666 |
| Aroclor 1242 | 0.1 | 1 | 1 | ND (0.035) | ND (0.036) | ND (0.035) | ND (0.039) | ND (0.035) | ND (0.037) |
| Aroclor 1248 | 0.1 | 1 | 1 | ND (0.035) | ND (0.036) | ND (0.035) | ND (0.039) | ND (0.035) | ND (0.037) |
| Aroclor 1260 | 0.1 | 1 | 1 | ND (0.035) | ND (0.036) | ND (0.035) | ND (0.039) | ND (0.035) | ND (0.037) |
| 4,4'-DDE | 0.0033 | 1.8 | 8.9 | ND (0.00070) | ND (0.00072) | ND (0.00069) | ND (0.00079) | ND (0.00069) | ND (0.00075) |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | ND (0.00070) | ND (0.00072) | ND (0.00069) | 0.0013 ^f | 0.0015 | 0.0017 ^f |
| Barium, Total | 350 | 350 | 400 | 37.1 | 26.7 | 35.4 | 76.5 | 39.9 | 30.6 |
| Cadmium, Total | 2.5 | 2.5 | 4.3 | <0.53 | <0.58 | <0.53 | <0.60 | <0.58 | <0.62 |
| Copper, Total | 50 | 270 | 270 | 16.8 | 11.5 | 9.5 | 24.4 | 15 | 11.5 |
| Iron, Total | - | 2000 | - | 12900 | 8640 | 10100 | 17100 | 10200 | 10300 |
| Lead, Total | 63 | 400 | 400 | 64 | <2.3 | <2.1 | 85.1 | 16.1 | 5 |
| Mercury, Total | 0.18 | 0.81 | 0.81 | <0.026 | <0.028 | <0.023 | 0.025 | 0.027 | <0.024 |
| Zinc, Total | 109 | 2200 | 10000 | 36.4 | 20.8 | 26.6 | 83.3 | 36.6 | 32.1 |

| | LOCATION | | | WC-D3 (0-7) | WC-D3 (7-14) | WC-D3 (14-21) | WC-D4 (0-7) | WC-D4 (7-14) | WC-D4 (14-21) |
|------------------------|--------------------|------|-------|---------------------|---------------------|---------------------|-----------------|-----------------|-----------------|
| | SAMPLING DATE | | | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 |
| | SAMPLE DEPTH (ft.) | | | 0-7 | 7-14 | 14-21 | 0-7 | 7-14 | 14-21 |
| | USCO | RSCO | RRSCO | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) |
| Benzo(a)anthracene | 1 | 1 | 1 | 0.0882 | 0.172 | 2.19 | ND (0.035) | ND (0.034) | ND (0.034) |
| Benzo(a)pyrene | 1 | 1 | 1 | 0.0794 | 0.182 | 2.14 | ND (0.035) | ND (0.034) | ND (0.034) |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 0.104 | 0.234 | 2.44 | ND (0.035) | ND (0.034) | ND (0.034) |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | 0.035 | 0.081 | 0.956 | ND (0.035) | ND (0.034) | ND (0.034) |
| Chrysene | 1 | 1 | 3.9 | 0.0747 | 0.177 | 1.98 | ND (0.035) | ND (0.034) | ND (0.034) |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | ND (0.040) | 0.0313 | 0.28 | ND (0.035) | ND (0.034) | ND (0.034) |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | 0.0515 | 0.113 | 1.13 | ND (0.035) | ND (0.034) | ND (0.034) |
| Aroclor 1242 | 0.1 | 1 | 1 | ND (0.040) | ND (0.032) | ND (0.035) | ND (0.032) | ND (0.032) | ND (0.034) |
| Aroclor 1248 | 0.1 | 1 | 1 | ND (0.040) | ND (0.032) | ND (0.035) | ND (0.032) | ND (0.032) | ND (0.034) |
| Aroclor 1260 | 0.1 | 1 | 1 | ND (0.040) | 0.0192 | ND (0.035) | ND (0.032) | ND (0.032) | ND (0.034) |
| 4,4'-DDE | 0.0033 | 1.8 | 8.9 | 0.0170 ^h | ND (0.00064) | ND (0.00069) | ND (0.00064) | ND (0.00065) | ND (0.00068) |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | 0.0149 | 0.0011 ^f | 0.0012 ^f | ND (0.00064) | ND (0.00065) | ND (0.00068) |
| Barium, Total | 350 | 350 | 400 | 106 | 41.3 | 51.8 | 52.7 | 53 | 26.5 |
| Cadmium, Total | 2.5 | 2.5 | 4.3 | <0.57 | <0.53 | <0.52 | <0.51 | <0.54 | <0.51 |
| Copper, Total | 50 | 270 | 270 | 22 | 25.4 | 12.5 | 17.9 | 9.7 | 5.7 |
| Iron, Total | - | 2000 | - | 18500 | 9850 | 11700 | 16900 | 9950 | 5710 |
| Lead, Total | 63 | 400 | 400 | 38.1 | 62.8 | 46.7 | 4.3 | 2.8 | <2.0 |
| Mercury, Total | 0.18 | 0.81 | 0.81 | 0.031 | 0.24 | 0.049 | <0.029 | <0.027 | <0.024 |
| Zinc, Total | 109 | 2200 | 10000 | 62.7 | 61.3 | 56.5 | 77.8 | 26.4 | 19.6 |

| | LOCATION | | | WC-E1 (0-7) | WC-E1 (7-14) | WC-E1 (14-18) | WC-E2 (0-7) | WC-E2 (7-14) | WC-E2 (14-21) |
|------------------------|--------------------|------|-------|-------------------------|-------------------------|-----------------|----------------------|-----------------|-------------------------|
| | SAMPLING DATE | | | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 |
| | SAMPLE DEPTH (ft.) | | | 0-7 | 7-14 | 14-18 | 0-7 | 7-14 | 14-21 |
| | USCO | RSCO | RRSCO | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) |
| Benzo(a)anthracene | 1 | 1 | 1 | 0.0359 | ND (0.033) | ND (0.037) | 0.205 | ND (0.034) | ND (0.036) |
| Benzo(a)pyrene | 1 | 1 | 1 | 0.0355 | ND (0.033) | ND (0.037) | 0.194 | ND (0.034) | ND (0.036) |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 0.0492 | ND (0.033) | ND (0.037) | 0.267 | ND (0.034) | ND (0.036) |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | ND (0.035) | ND (0.033) | ND (0.037) | 0.0924 | ND (0.034) | ND (0.036) |
| Chrysene | 1 | 1 | 3.9 | 0.037 | ND (0.033) | ND (0.037) | 0.207 | ND (0.034) | ND (0.036) |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | ND (0.035) ^a | ND (0.033) ^a | ND (0.037) | 0.0430 ^e | ND (0.034) | ND (0.036) ^a |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | 0.0494 | ND (0.033) | ND (0.037) | 0.177 | ND (0.034) | ND (0.036) |
| Aroclor 1242 | 0.1 | 1 | 1 | ND (0.032) | ND (0.033) | ND (0.035) | ND (0.033) | ND (0.032) | ND (0.034) |
| Aroclor 1248 | 0.1 | 1 | 1 | ND (0.032) | ND (0.033) | ND (0.035) | ND (0.033) | ND (0.032) | ND (0.034) |
| Aroclor 1260 | 0.1 | 1 | 1 | ND (0.032) | ND (0.033) | ND (0.035) | ND (0.033) | ND (0.032) | ND (0.034) |
| 4,4'-DDE | 0.0033 | 1.8 | 8.9 | 0.0028 | ND (0.00066) | ND (0.00070) | ND (0.00067) | ND (0.00063) | ND (0.00067) |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | 0.0129 | ND (0.00066) | ND (0.00070) | 0.00066 ⁱ | ND (0.00063) | ND (0.00067) |
| Barium, Total | 350 | 350 | 400 | 43.8 | 20.4 | 26 | 51 | 41.5 | 30.4 |
| Cadmium, Total | 2.5 | 2.5 | 4.3 | <0.52 | <0.51 | <0.58 | <0.53 | <0.53 | <0.57 |
| Copper, Total | 50 | 270 | 270 | 13.9 | 7.6 | 8.6 | 10.7 | 12.4 | 12.2 |
| Iron, Total | - | 2000 | - | 12200 | 6780 | 7480 | 11600 | 10500 | 12500 |
| Lead, Total | 63 | 400 | 400 | 11.4 | <2.0 | <2.3 | 19.5 | 2.5 | 2.6 |
| Mercury, Total | 0.18 | 0.81 | 0.81 | 0.032 | <0.023 | <0.026 | <0.024 | <0.023 | <0.025 |
| Zinc, Total | 109 | 2200 | 10000 | 36 | 16.7 | 21.3 | 43 | 28.3 | 36.9 |

| | LOCATION | | | WC-E3 (0-7) | WC-E3 (7-14) | WC-E3 (14-21) | WC-E4 (0-7) | WC-E4 (7-14) | WC-E4 (14-21) |
|------------------------|--------------------|------|-------|-----------------|-----------------|---------------------|-------------------|-----------------|-----------------|
| | SAMPLING DATE | | | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 |
| | SAMPLE DEPTH (ft.) | | | 0-7 | 7-14 | 14-21 | 0-7 | 7-14 | 14-21 |
| | USCO | RSCO | RRSCO | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) |
| Benzo(a)anthracene | 1 | 1 | 1 | ND (0.042) | ND (0.034) | 0.186 | ND (0.041) | 0.0512 | ND (0.041) |
| Benzo(a)pyrene | 1 | 1 | 1 | ND (0.042) | ND (0.034) | 0.172 | ND (0.041) | 0.051 | ND (0.041) |
| Benzo(b)fluoranthene | 1 | 1 | 1 | ND (0.042) | ND (0.034) | 0.238 | ND (0.041) | 0.0764 | ND (0.041) |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | ND (0.042) | ND (0.034) | 0.0829 | ND (0.041) | 0.0261 | ND (0.041) |
| Chrysene | 1 | 1 | 3.9 | ND (0.042) | ND (0.034) | 0.291 | ND (0.041) | 0.0759 | ND (0.041) |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | ND (0.042) | ND (0.034) | ND (0.070) | ND (0.041) | ND (0.043) | ND (0.041) |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | ND (0.042) | ND (0.034) | 0.118 | ND (0.041) | 0.0278 | ND (0.041) |
| Aroclor 1242 | 0.1 | 1 | 1 | ND (0.040) | ND (0.034) | ND (0.035) | ND (0.041) | ND (0.040) | ND (0.037) |
| Aroclor 1248 | 0.1 | 1 | 1 | ND (0.040) | ND (0.034) | ND (0.035) | ND (0.041) | ND (0.040) | ND (0.037) |
| Aroclor 1260 | 0.1 | 1 | 1 | ND (0.040) | ND (0.034) | ND (0.035) | ND (0.041) | ND (0.040) | ND (0.037) |
| 4,4'-DDE | 0.0033 | 1.8 | 8.9 | ND (0.00080) | ND (0.00069) | 0.0044 ^g | ND (0.00081) | ND (0.00080) | ND (0.00074) |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | ND (0.00080) | ND (0.00069) | 0.0065 | ND (0.00081) | ND (0.00080) | ND (0.00074) |
| Barium, Total | 350 | 350 | 400 | 16.4 | 23.6 | 31.5 | 51.2 | 37.1 | 39.2 |
| Cadmium, Total | 2.5 | 2.5 | 4.3 | <0.35 | <0.54 | <0.52 | <0.38 | <0.51 | <0.39 |
| Copper, Total | 50 | 270 | 270 | 10.6 | 7.3 | 12.4 | 14.9 ^j | 47.5 | 12.7 |
| Iron, Total | - | 2000 | - | 9120 | 7340 | 9480 | 15900 | 17000 | 11200 |
| Lead, Total | 63 | 400 | 400 | 2.2 | <2.1 | 7.5 | 4.3 ^j | 5.2 | 3.6 |
| Mercury, Total | 0.18 | 0.81 | 0.81 | <0.024 | <0.031 | <0.024 | <0.015 | <0.023 | <0.020 |
| Zinc, Total | 109 | 2200 | 10000 | 20.9 | 23.4 | 29.3 | 41.7 | 35.3 | 30.8 |

| | LOCATION | | | WC-F1 (0-7) | WC-F1 (7-14) | WC-F1 (14-18) | WC-F2 (0-7) | WC-F2 (7-14) | WC-F2 (14-21) |
|------------------------|--------------------|------|-------|-----------------|-----------------|-----------------|---------------------|---------------------|--------------------|
| | SAMPLING DATE | | | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 | 6/14/2021 |
| | SAMPLE DEPTH (ft.) | | | 0-7 | 7-14 | 14-18 | 0-7 | 7-14 | 14-21 |
| | USCO | RSCO | RRSCO | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) |
| Benzo(a)anthracene | 1 | 1 | 1 | 0.0219 | ND (0.033) | 0.0697 | 0.103 | 0.0612 | ND (0.040) |
| Benzo(a)pyrene | 1 | 1 | 1 | 0.0179 | ND (0.033) | 0.0533 | 0.102 | 0.0615 | ND (0.040) |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 0.0257 | ND (0.033) | 0.0762 | 0.134 | 0.0831 | ND (0.040) |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | ND (0.035) | ND (0.033) | 0.0296 | 0.0435 | 0.0301 | ND (0.040) |
| Chrysene | 1 | 1 | 3.9 | 0.0175 | ND (0.033) | 0.0767 | 0.0935 | 0.0611 | ND (0.040) |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | ND (0.035) | ND (0.033) | ND (0.035) | 0.0198 ^o | ND (0.034) | ND (0.040) |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | 0.0357 | ND (0.033) | 0.0625 | 0.104 | 0.07 | ND (0.040) |
| Aroclor 1242 | 0.1 | 1 | 1 | ND (0.033) | ND (0.032) | ND (0.033) | ND (0.033) | ND (0.033) | ND (0.040) |
| Aroclor 1248 | 0.1 | 1 | 1 | ND (0.033) | ND (0.032) | ND (0.033) | ND (0.033) | ND (0.033) | ND (0.040) |
| Aroclor 1260 | 0.1 | 1 | 1 | ND (0.033) | ND (0.032) | ND (0.033) | ND (0.033) | ND (0.033) | ND (0.040) |
| 4,4'-DDE | 0.0033 | 1.8 | 8.9 | ND (0.00066) | ND (0.00064) | ND (0.00065) | ND (0.00065) | ND (0.00066) | ND (0.00079) |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | ND (0.00066) | ND (0.00064) | ND (0.00065) | 0.0134 ¹ | 0.0016 ¹ | ND (0.00079) |
| Barium, Total | 350 | 350 | 400 | 47.5 | <20 | 151 | 228 | 34.6 | 37.9 |
| Cadmium, Total | 2.5 | 2.5 | 4.3 | <0.52 | <0.51 | <0.51 | <0.51 | <0.52 | <0.35 |
| Copper, Total | 50 | 270 | 270 | 11.5 | 6.3 | 31.5 | 18.4 | 9.4 | 12.9 ¹ |
| Iron, Total | - | 2000 | - | 13000 | 5850 | 19000 | 16100 | 8860 | 15600 ¹ |
| Lead, Total | 63 | 400 | 400 | 15.9 | <2.0 | 248 | 91.7 | 37.5 | 3.7 |
| Mercury, Total | 0.18 | 0.81 | 0.81 | <0.026 | <0.023 | <0.026 | 0.075 | 0.031 | <0.024 |
| Zinc, Total | 109 | 2200 | 10000 | 42 | 16.5 | 144 | 101 | 35 | 36.5 |

| | LOCATION | | | WC-F3 (0-7) | WC-F3 (7-14) | WC-F3 (14-21) | WC-F4 (0-7) | WC-F4 (7-14) | WC-F4 (14-21) |
|------------------------|--------------------|------|-------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | SAMPLING DATE | | | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 | 6/15/2021 |
| | SAMPLE DEPTH (ft.) | | | 0-7 | 7-14 | 14-21 | 0-7 | 7-14 | 14-21 |
| | USCO | RSCO | RRSCO | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) | Results (mg/kg) |
| Benzo(a)anthracene | 1 | 1 | 1 | 0.863 | 0.183 | ND (0.034) | 0.192 | 0.119 | ND (0.038) |
| Benzo(a)pyrene | 1 | 1 | 1 | 0.907 | 0.201 | ND (0.034) | 0.195 | 0.125 | ND (0.038) |
| Benzo(b)fluoranthene | 1 | 1 | 1 | 1.17 | 0.252 | ND (0.034) | 0.272 | 0.163 | ND (0.038) |
| Benzo(k)fluoranthene | 0.8 | 1 | 3.9 | 0.365 | 0.0873 | ND (0.034) | 0.0898 | 0.0666 | ND (0.038) |
| Chrysene | 1 | 1 | 3.9 | 0.793 | 0.181 | ND (0.034) | 0.19 | 0.121 | ND (0.038) |
| Dibenzo(a,h)anthracene | 0.33 | 0.33 | 0.33 | 0.151 | 0.0428 | ND (0.034) | 0.0372 | 0.0266 | ND (0.038) |
| Indeno(1,2,3-cd)pyrene | 0.5 | 0.5 | 0.5 | 0.57 | 0.115 | ND (0.034) | 0.157 | 0.105 | ND (0.038) |
| Aroclor 1242 | 0.1 | 1 | 1 | ND (0.036) | ND (0.043) | ND (0.031) | ND (0.033) | ND (0.034) | ND (0.036) |
| Aroclor 1248 | 0.1 | 1 | 1 | ND (0.036) | ND (0.043) | ND (0.031) | ND (0.033) | ND (0.034) | ND (0.036) |
| Aroclor 1260 | 0.1 | 1 | 1 | 0.693 ^h | 0.698 | ND (0.031) | 0.0925 | ND (0.034) | 0.027 |
| 4,4'-DDE | 0.0033 | 1.8 | 8.9 | ND (0.00072) | ND (0.00085) | ND (0.00063) | ND (0.00065) | ND (0.00067) | ND (0.00072) |
| 4,4'-DDT | 0.0033 | 1.7 | 7.9 | ND (0.00072) | ND (0.00085) | ND (0.00063) | 0.0211 | 0.0054 | ND (0.00072) |
| Barium, Total | 350 | 350 | 400 | 63 | 127 | 42.3 | 4320 | 74.7 | 29.8 |
| Cadmium, Total | 2.5 | 2.5 | 4.3 | 1.5 | <0.71 | <0.51 | 2.7 | 1.9 | <0.56 |
| Copper, Total | 50 | 270 | 270 | 18.7 | 37.2 | 14.5 | 17.3 | 17.7 | 8.1 |
| Iron, Total | - | 2000 | - | 17400 | 17700 | 11500 | 11900 | 12300 | 8440 |
| Lead, Total | 63 | 400 | 400 | 57.1 | 147 | 14 | 117 | 55.1 | 3.1 |
| Mercury, Total | 0.18 | 0.81 | 0.81 | 0.095 | 0.092 | <0.027 | 0.086 | 0.29 | <0.025 |
| Zinc, Total | 109 | 2200 | 10000 | 73.3 | 155 | 50 | 587 | 77.1 | 27.4 |

Notes:

mg/kg – milligrams per kilogram

ND – Analyte not detected

J – Concentration is estimated

Concentration Exceeds USCO

Concentration Exceeds the RSCO

Concentration Exceeds the RRSCO

D – Indicates result is based on a dilution

3.2 GROUNDWATER INVESTIGATION RESULTS

Two (2) groundwater samples were collected from the temporary wells for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, TAL metals, PCBs by EPA Method 8082A, pesticides by EPA Method 8081, and cyanide. Groundwater analytical results summary tables are included in **Table 3.5** attached, and the laboratory deliverable reports are included in **Appendix C**. A groundwater sample location plan and summary of the results are presented in **Figure 3.2**. **Table 3.6** below presents a summary of the groundwater exceedances of the AWQS.

SVOCs and total metals were identified in groundwater samples exceeding the NYSDEC. Exceedances included iron, magnesium and sodium exceeding the AWQS in TP-204. The SVOC benzo (b) fluoranthene and the metals manganese, iron, and sodium exceeded the AWQS in TP-213. The presence of these contaminants was attributed to sample turbidity from temporary wells. Additionally, the standards for iron, magnesium, manganese, and sodium are secondary concern metals and are not health based. **Table 3.6** below presents a summary of the groundwater exceedances of the AWQS.

As presented on Table 3.6 below, the PFAS compound perfluorooctanoic acid (PFOA) was detected in well boring TP-13 (21.9 ng/L) and TP-217 (18.9 ng/L) at concentrations exceeding the NYSDEC Groundwater Screening Level of 10 ng/L. In addition the PFAS compounds perfluorooctanesulfonic acid (PFOS) was detected in well borings MW-204 (19.5 ng/L), MW-213 (25.8 ng/L), and MW-217 (24.5 ng/L) at concentrations exceeding the NYSDEC Groundwater Screening Level of 10 ng/L.

Table 3.6 – Groundwater Sample Exceedances

| LOCATION | TP-204 | TP-213 | | |
|-------------------------------------|-------------|----------------|----------------|----------------|
| SAMPLING DATE | 4/7/2021 | 4/7/2021 | | |
| | NY-AWQS | Results (ug/l) | Results (ug/l) | |
| Benzo(b)fluoranthene | 0.002 | ND | 0.01J | |
| Manganese, Total | 300 | 114.1 | 490.7 | |
| Iron, Total | 300 | 1050 | 16000 | |
| Magnesium, Total | 35000 | 41000 | 10500 | |
| Manganese, Total | 300 | 114.1 | 490.7 | |
| Sodium, Total | 20000 | 292000 | 95800 | |
| LOCATION | TP-204 | TP-213 | TP-217 | |
| SAMPLING DATE | 6/15/2021 | 6/15/2021 | 6/15/2021 | |
| | NYSDEC-GWSL | Results (ng/l) | Results (ng/l) | Results (ng/l) |
| Perfluorooctanoic acid (PFOA) | 10 | 6.4 | 21.9 | 18.9 |
| Perfluorooctanesulfonic acid (PFOS) | 10 | 19.5 | 25.8 | 24.5 |

Notes:

ND – compound not detected
Yellow Highlight – exceeds NYSDEC Ambient Water Quality Standards/NYSDDEC PFAS Groundwater Screening Level
Ug/l – micrograms per liter
Ng/L – nanograms per liter
NY-AWQS – NYSDEC Ambient Water Quality Standards
NYSDEC-GWSL – NYSDEC Groundwater Screening Limit

3.3 SOIL VAPOR RESULTS

Four (4) soil vapor samples were collected and analyzed for volatile vapors by U.S. EPA Method TO-15. The Soil vapor analytical results summary table is included in **Tables 3.7** attached, and the laboratory deliverable report is included in **Appendix C**. A Soil Vapor sample location plan and summary of the results are presented in **Figure 3.3**.

New York State does not have standards for VOCs in soil vapor. However, for discussion purposed SESI has compared the soil vapor concentrations detected on the Site to the New **Table 3.7** below presents a summary of the Soil Vapor exceedances of the NYSDOH Matrix A Sub-Slab Vapor Concentrations Criteria (NY-SSC-A) lower threshold. Trichloroethene (TCE) was detected in one (1) sample at concentrations in exceedance of the NY-SSC-A lower threshold. No additional exceedances were detected. Additional chlorinated VOCs (CVOCs) included tetrachloroethene (PCE) and chloroform were detected below the applicable standards. The presence of chlorinated volatile vapors suggest an on-site or nearby source of chlorinated compounds is present.

Table 3.7 – Soil Gas Sample Exceedances

| LOCATION | | SV-203 |
|-----------------|----------|-----------------|
| SAMPLING DATE | | 4/8/2021 |
| VOCs in Air | NY-SSC-A | Results (ug/m3) |
| Trichloroethene | 6 | 8.76 |

Notes:

NY-SSC-A – NYSDOH Matrix A Sub-slab Vapor Concentration Criteria Lower Threshold
Yellow Highlight – concentration exceeds the NYSDOG Matrix A Sub-Slab Vapor Concentrations Criteria
Ug/m3 – micrograms per cubic meter

4.0 CONCLUSIONS AND RECOMMENDATIONS

Field investigation identified the presence of brick fragments in soil, indicative of historic fill that extends to an approximate depth of five (5) feet below grade. PAHs, metals and pesticides were detected in soil sporadically across the Site at varying depths ranging from 1 to 11 ft-bgs. Pesticides were identified at concentrations exceeding their respective USCOs, and metals and PAHs identified their respective USCOs, RSCOs and/or RRSCOs. Soil contaminants were attributed to historic fill and the Sites historical uses.

Dissolved metals including iron, magnesium, manganese, and sodium were identified in the temporary wells TP-204 and TP-213 exceeding AWQS. Benzo (b) fluoranthene was detected in temporary well TP-213 exceeding the AWQS. PFAS compounds were detected in temporary wells TP-204, TP-213, and TP-217 at concentrations exceeding the NYSDEC Groundwater screening level for PFAS compounds. The source of the metal and PFAS exceedances in groundwater is attributed to the historical on-site uses.

Finally, the CVOC PCE was detected in soil vapor at a concentration exceeding its NYSDOH matrix A NYSSC-A lower threshold. The presence of CVOCs detected during this Phase II Investigation and the prior 2019 investigation indicate the potential for an on-site source.

TABLES

FIGURES

Appendix A:

GPR Report

Appendix B:

Boring Logs

Appendix C:

Laboratory Reports
