

# ***RMR INVESTIGATION***

CUY-77-11.21  
PID #105743  
Cleveland, Cuyahoga County, Ohio

**By:**

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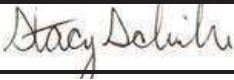
April 2023

# SIGNATURE PAGE

## GENERAL INFORMATION

|                       |                    |      |        |           |    |
|-----------------------|--------------------|------|--------|-----------|----|
| Project C-R-S / Name: | CUY-77-11.21       | PID: | 105743 | District: | 12 |
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## CERTIFICATION *(Must be acknowledged by Prequalified Individual)*

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |                                                                                     |  |  |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|--|--|
| <input checked="" type="checkbox"/> | I certify that I have personally examined and am familiar with the information in this document and all attachments, and that the data collection was supervised by an individual(s) prequalified to conduct the RMR for ODOT or by trained ODOT Environmental staff. Based on my inquiry of those persons immediately responsible for obtaining the information contained herein, I believe that the information has been collected in accordance with the ODOT RMR Manual current at the time of this submittal, and is true, accurate, and complete. |               |                                                                                     |  |  |
| Name:                               | Stacy Schimmoeller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Signature:    |  |  |  |
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## EXECUTIVE SUMMARY

TRC completed a Regulated Materials Review (RMR) Investigation in conformance with the Ohio Department of Transportation's Regulated Materials Review Manual (January 2022) for the CUY-77-11.21 project ("Project").

The Project proposes improvements that will widen and reconstruct the original interstate infrastructure on Interstate 77 (I-77) between the CSX bridge (11.220) and Broadway Avenue (14.084) in Cleveland, Cuyahoga County, Ohio. Improvements will include fully replacing the pavement and a mainline structure, correcting roadway deficiencies, gaining shoulder width, increasing capacity of the drainage system to alleviate flooding, and accommodating future drainage of a widened corridor.

The following Properties were recommended for an RMR Investigation following the completion of the RMR Screening in May 2022:

Table 1: RMR Investigation Properties

|                       |                                                                                                              |              |                          |        |
|-----------------------|--------------------------------------------------------------------------------------------------------------|--------------|--------------------------|--------|
| Project C-R-S/Name:   |                                                                                                              | CUY-77-11.21 | PID:                     | 105743 |
| Property ID# & Tenant | Tenant/Address                                                                                               |              | Current Land Use         |        |
| RM-023                | Coast to Coast Equipment / Fleet Up<br>Transports / OHR Rents<br>4800 Ruffini Court<br>Cleveland, Ohio 44105 |              | Industrial               |        |
| RM-025                | Duck Creek Energy<br>3403521LTV Steel #10 #10<br>Cleveland, Ohio 44105                                       |              | Other (Natural Oil Well) |        |
| RM-062                | Cleveland ISG Works<br>Wheeling & LE RR<br>Cleveland, Ohio 44105                                             |              | Railroad                 |        |

This RMR Investigation was conducted on January 10, 2023, in which eight (8) soil borings were drilled to a depth of up to twelve (12) feet below ground surface. Two (2) soil borings were drilled on the RM-023 property (Coast to Coast Equipment / Fleet Up Transports / OHR Rents), two (2) soil borings were drilled on the RM-025 property (Duck Creek Energy), and four (4) soil borings were drilled on the RM-062 property (Cleveland ISG Works). One (1) soil sample per boring (eight (8) total samples) was collected during boring activities and each sample was analyzed for Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260D, semi-VOCs by EPA Method 8270E, Total Petroleum Hydrocarbons (TPH) as Gasoline Range Organics (GRO)/Diesel Range Organics (DRO)/Oil Range Organics (ORO) by EPA Method 8015D, and Resource Conservation and Recovery Act (RCRA) metals by EPA Method 6010D/7471. Information revealed during the RMR Investigation (Appendix C) was used to reach the following recommendations:

Table 2: Summary of Investigation Findings & Recommendations

|                                               |                                                                                                                                                                                          |      |        |                           |           |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|---------------------------|-----------|
| Project C-R-S / Name:                         | CUY-77-11.21                                                                                                                                                                             | PID: | 105743 | Project City              | Cleveland |
| Property ID#, Tenant Name & Address           | Findings                                                                                                                                                                                 |      |        | Next Step Recommendations |           |
| RM-023<br>Coast to Coast Equipment / Fleet Up | Each Constituents of Concern (COCs) detected within the borings were below the Ohio Voluntary Action Program (VAP) Generic Direct Contact Soil Standards – Residential Land Use Category |      |        | No Further Action         |           |



|                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Transports / OHR<br>Rents<br>4800 Ruffini Court<br>Cleveland, Ohio<br>44105               | Criteria and Commercial/Industrial Land Use<br>Category Criteria.                                                                                                                                                                                                                                                                                                                                                                      |                   |
| RM-025<br>Duck Creek<br>Energy<br>3403521LTV Steel<br>#10 #10<br>Cleveland, Ohio<br>44105 | Each Constituents of Concern detected within the borings were below the Ohio VAP Generic Direct Contact Soil Standards – Residential Land Use Category Criteria and Commercial/Industrial Land Use Category Criteria.                                                                                                                                                                                                                  | No Further Action |
| RM-062<br>Cleveland ISG<br>Works<br>Wheeling & LE RR<br>Cleveland, Ohio<br>44105          | Each Constituents of Concern detected within the borings were below the Ohio VAP Generic Direct Contact Soil Standards – Residential Land Use Category Criteria and Commercial/Industrial Land Use Category Criteria, except benzo(a)pyrene in SB-06-00-02 and arsenic in SB-06-00-02 and SB-07-03-05, which were detected slightly above the Ohio VAP Generic Direct Contact Soil Standards – Residential Land Use Category Criteria. | Plan Note         |

## 1. INTRODUCTION

The Project (CUY-77-11.21 project) is located in Cleveland, Cuyahoga County, Ohio. The Ohio Department of Transportation (ODOT) is proposing work on the I-77 corridor which will result in improvements that widen and reconstruct the original interstate infrastructure between the CSX bridge (11.220) and Broadway Avenue (14.084). Work that is proposed includes fully replacing the pavement and a mainline structure, correcting roadway deficiencies and gaining shoulder width, increasing capacity of the drainage system to alleviate flooding, and accommodating future drainage of a widened corridor. The design elements are interrelated and Maintenance of Traffic (MOT) schemes are dependent upon how the elements are designed. The MOT analysis will include phasing and maintaining two or three lanes in each direction as well as the assessment of an Alternate Route to provide additional capacity during construction. Traffic at each interchange will be detoured during the construction of the ramp improvements.

An RMR Screening Summary was conducted on May 24, 2022, which identified sixty-two (62) properties associated with the Project. Of those sixty-two (62) properties, three (3) were recommended for RMR Investigation.

The Properties in the following table were investigated as part of the RMR Investigation effort. The RMR included RM-023, whose current land use is industrial and is considered high-risk, RM-025 whose current land use is a natural gas well and is considered high-risk, and RM-062, whose current land use is an inactive rail line and is considered low-risk. The Properties are proposed for Partial Take (RM-023 and RM-025) and Total Take (RM-062). The RMR Investigation was conducted to determine if regulated materials (RM) have impacted the properties.

Table 3: RMR Investigation Properties Rationale for Investigation

| Project C-R-S / Name:                              | CUY-77-11.21                                                                                                    | PID:                 | 105743 | Project City                                                                                                                              | Cleveland |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Property ID#                                       | Tenant Name & Address                                                                                           | Proposed Acquisition | Take   | Rationale for Investigation                                                                                                               |           |
| RM-023,<br>Homeworth ETC<br>Commercial<br>Property | Coast to Coast Equipment<br>/ Fleet Up Transports /<br>OHR Rents<br>4800 Ruffini Court<br>Cleveland, Ohio 44105 | Partial Take         |        | High-Risk Land Use; potential the property has been impacted by regulated materials (RM); Project need for deep excavation                |           |
| RM-025, Duck<br>Creek Energy                       | Duck Creek Energy<br>3403521LTV Steel #10 #10<br>Cleveland, Ohio 44105                                          | Partial Take         |        | No Regulatory File Review Available; High-Risk Land Use; potential the property has been impacted by RM; Project need for deep excavation |           |
| RM-062,<br>Cleveland ISG<br>Works                  | Cleveland ISG Works<br>Wheeling & LE RR<br>Cleveland, Ohio 44105                                                | Total Take           |        | No Regulatory File Review Available Low-Risk Land Use; potential the property has been impacted by RM; Project need for deep excavation   |           |

The Properties are generally located along/near the west side of I-77 near where Ruffini Court crosses under I-77 (13.07) in Cleveland, Cuyahoga County, Ohio. **Figure 1** – USGS Topographic Map – RM-023, 025, & 062 (**Appendix A**) illustrates the location of the Properties. **Figure 2** – Property Diagram – RM-023, 025, & 062 (**Appendix A**) illustrates the Property boundaries used for this RMR Investigation and boring locations on an aerial photograph.

## 2. PROPERTY HISTORY

### 2.1 RM-023

According to the 1950 and 1961 Historical Aerial Maps, the property is depicted as a rail yard with multiple rail lines traversing through the property. Additionally, parking and storage associated with an adjacent property are depicted on the northern portion of the property. According to the 1970 and 1986 Historical Aerial Maps, a pit-like feature is depicted on the southern portion of the property. According to documents reviewed from EPA Envirofacts, a slag disposal pit (waste from smelting or refining of ore) was located on the southern portion of the property and was associated with the Standard Slag Facility. According to the 2005 and 2010 Historical Aerial Maps, the rail yard and pit are no longer present, and the property is depicted as undeveloped vacant land. Currently, the property is utilized as an industrial/commercial facility with a large detention pond located in the central portion of the property. The property was listed in the project RMR Screening dated May 24, 2022, where it is noted that the property did not have an Ohio Regulated Properties Search (ORPS) listing; however, the property is categorized as having high-risk land use (industrial), historically was utilized as a rail yard and a slag pit, and is likely impacted by RMs.

### 2.2 RM-025

According to the 1950 Historical Aerial Map, the property is depicted as part of an unpaved road. According to the 1961, 1970, 1986, 1998, 2005, and 2010 Historical Aerial Maps, the property is depicted as cleared land immediately adjacent to a rail line. Currently, the property is fenced in and contains equipment associated with a natural gas pump that operates on the property with two underground gas lines attached to it. According to the Ohio Department of Natural Resources Division of Oil & Gas Resource, the well was completed in 2001. The property was listed in the project RMR Screening dated May 24, 2022, where it is noted that the property does not have an ORPS listing; however, the property is categorized as having high-risk land use as a current natural gas well and is likely impacted by RMs.

### 2.3 RM-062

According to the 1950 Historical Aerial Map, the property is depicted as part of a rail yard and/or storage yard. According to the 1961, 1970, 1986, 1998, 2005, and 2010 Historical Aerial Maps, the property appeared to be utilized as a rail line. Currently, the rail line is present but inactive. The property was listed in the project RMR Screening dated May 24, 2022, where it is noted that the property did not have an ORPS listing; however, the property is categorized as having high-risk land use (railroad), historically was utilized as a railroad, and is likely impacted by RMs.

## 3. FIELD ACTIVITIES AND ANALYTICAL PROCEDURES - PROPERTY RM-023, RM-025, RM-062

### 3.1 Investigation Overview and Data Gaps

Research performed during the RMR Screening for the project (May 2022) did not reveal information on the presence of RM on the RM Properties; therefore, this RM Investigation was performed to provide data on if RMs are present on the RM Properties within the Study Area. No data gaps were identified through the RMR Investigation and the associated sub-surface investigation completed on January 10, 2023.

### 3.2 Published Geologic and Hydrogeologic Information

According to the United States Department of Agriculture, Natural Resource Conservation Service (USDA NRCS) soil map (Web Soil Survey), the Properties are located in the Udorthents, loamy soil group. The group typically consists of soils that are not hydric and are not prone to frequent flooding or ponding. A copy of the soil map is presented as **Figure 3** in **Appendix A**.

According to the Ohio Department of Natural Resources Division of Geological Survey *Physiographic Regions of Ohio*, the Properties are located in the Erie Lake Plain subsection of the Bluegrass section of the Interior Lowland Province of the Interior Plains Division. The dominant topography is characterized by areas of very low-relief Ice-Age lake basin separated from the modern-day Lake Erie by shoreline cliffs and major streams in deep gorges. The soils typically consist of Pleistocene-age lacustrine sand, silts, clays, and wave-planed till over Devonian-and Mississippian-age shales and sandstones. Elevations range from 570 to 825 feet above sea level and the relief is very low (approximately 10 feet). A copy of the *Physiographic Regions of Ohio* is presented as **Figure 4** in **Appendix A**.

According to the Ohio Division of Geological Survey *Bedrock Geology Map of Ohio* (2006), the Properties are located in the Ohio Shale Group. The bedrock consists of Devonian-age shale that is typically brownish-black to greenish-gray in color. The bedrock is typically carbonaceous to clayey, laminated to thin-bedded, fissile parting, and contains carbonate and/or siderite concretions. A copy of the *Bedrock Geology Map of Ohio* is presented as **Figure 5** in **Appendix A**.

According to the United States Geological Survey, the Properties are located within the Great Lakes watershed. According to the Groundwater Vulnerability Index Map of Ohio, the unconsolidated subsurface consists of beach, beach ridge, dune, and deltaic deposits characterized by moderate to low relief, sandy soils, and high infiltration rates. Groundwater beneath the Properties is located within the Painesville Lacustrine Aquifer, a sand and gravel aquifer with typical groundwater yields ranging from 5 to 25 gallons per minute. Groundwater is presumed to flow towards the Cuyahoga River, located approximately 0.75 mile to the west of the Properties. A copy of the Groundwater Vulnerability Index Map of Ohio map is presented as **Figure 6** in **Appendix A**.

### 3.3 Field Condition Documentation and Overview

TRC completed a sub-surface investigation on January 10, 2023, for the purpose of identifying potential sub-surface contamination. Weather conditions were cloudy with temperatures ranging from 30 to 45 degrees Fahrenheit. As directed by ODOT, eight (8) Geoprobe soil borings (SB-01 through SB-08) were completed to a depth of twelve (12) feet below ground surface (ft. bgs) except for the following: SB-02 and SB-06 were completed to a depth of two (2) ft. bgs and SB-04 was completed to a depth of five (5) ft. bgs. Termination of SB-02, SB-04, and SB-06 was due to obstructions that could not be drilled through via direct push technology. Offset borings were attempted but hit refusal around the same depth each time. SB-01 and SB-02 were located within RM-023, SB-03 and SB-04 were located within RM-025, and SB-05, SB-06, SB-07, and SB-08 were located within RM-062 (**Figure 2** in **Appendix A**). The soil borings located within RM-023 and RM-062 were drilled in their original approximate location per Figure 2 which was approved by ODOT via email dated December 20, 2022. SB-03 and SB-04 were moved directly outside of RM-025 due to the property being fenced in and to avoid the active gas lines and equipment associated with a natural gas pump that operates on the property as approved by ODOT via email dated December 20, 2022. Ground Penetrating Radar Systems (GPRS) identified sub-surface anomalies which are presented as **Figure 7** in **Appendix A**, were avoided, and discussed in more detail in Section 3.4 below. On January 10, 2023, a representative from Duck Energy (owner of RM-025) was present to ensure that drilling activities did not encounter the nearby gas lines. Photographs of the boring locations and observed utilities can be found in the photolog presented in **Appendix C**. No additional changes to the sampling plan were identified.

### 3.4 Geophysical Survey

On December 21, 2022, GPRS was utilized to identify potential sub-surface utilities and to clear the eight (8) proposed boring locations. GPRS utilized an underground scanning GPR antenna and electromagnetic pipe and cable locator in order to locate sub-surface utilities with an effective depth of 8 feet below ground surface. GPRS identified sub-surface anomalies resembling a storm sewer near SB-01 and SB-02 and recommended moving the borings slightly north and west. GPRS identified sub-surface anomalies resembling gas lines south and west of RM-025. Both SB-03 and SB-04 were moved outside of the fence to avoid encountering gas lines and electrical equipment. GPRS did identify an additional unknown sub-surface anomaly between SB-04 and SB-05, however, the anomaly did not affect drilling activities. TRC did not observe any additional issues while completing the investigation. A GPRS Finding Map is presented as **Figure 7** in **Appendix A**.

### 3.5 Sampling Effort

#### 3.5.1 Soil Sampling

Direct-push drilling technology was implemented to collect soil samples in order to characterize sub-surface conditions at the Site. Direct-push sampling involved advancing the soil sampling equipment by driving the equipment with a percussion hammer into the soil by a licensed Ohio drilling company subcontracted by TRC (AST Enterprises, Inc. of Springboro, Ohio). Soil samples from the borings were collected continuously using a lined, two-inch by four-foot-long, cellulose acetate butyrate (CAB) sampler. The soil profile observed at the Site generally consisted of fill materials composed of slag material, fine sand, and silt with clay, from 0 to approximately 12 ft. bgs. Soil boring profiles are included in the attached boring logs as **Appendix B**. Each borehole was backfilled with hydrated bentonite chips up to the ground surface. Soil cuttings were placed in a 55-gallon steel close-top drum.

The soil borings were logged and described by TRC field personnel. Samples collected from each sample interval were split into two portions. One portion was placed in a re-sealable bag for field headspace screening; the second portion was placed in one or more certified pre-cleaned laboratory-provided jars and put on ice for possible analysis. Samples collected for headspace screening were analyzed in the field using a photo-ionization detector (PID). The PID uses photo-ionization to measure the total volatile organic vapor concentrations in the soil samples. The measurements are collected by inserting the probe of the properly calibrated PID into the headspace of the re-sealable bag above the sample and recording the vapor concentration. The headspace vapor concentration for each soil interval within the soil boring was compared to each other, along with TRC geologist observations (odors, staining, etc.) in order to determine areas of potential impact. Headspace screening results are included in the attached boring logs. Soil boring locations are presented as **Figure 2** in **Appendix A**.

Decontamination procedures were conducted in accordance with applicable guidance documents. Sampling tools were decontaminated using a laboratory-grade detergent and rinsed with distilled water prior to collecting the next sample. The direct-push rod shoe was decontaminated using a similar solution before advancing to the next borehole.

#### 3.5.2 Investigation-Derived Waste (IDW) Management

Approximately one (1) drum of Investigation-Derived Waste (IDW) was generated during field activities. The waste consist of soil cuttings. The drum cuttings were deemed non-hazardous based on the laboratory anaysis and were picked up and transported by a licensed Ohio disposal company sub-contracted by TRC (Chemviron Midwest Inc. of Wooster, Ohio) on February 15, 2023. The soil cuttings were transported to Ohio Soil Recycling, LLC in Columbus, Ohio. A copy of the waste manifest and waste profile are presented in **Appendix E**.

### 3.6 Analytical Methods, Results, and Comparison to Regulatory Levels

#### 3.6.1 Soil

The laboratory results for the COCs in soil were compared to the Ohio Voluntary Action Program (VAP) Generic Direct Contact Soil Standards for Residential Use, Commercial Use, and Industrial Use. VOCs (bromomethane, cyclohexane, benzene, methyl cyclohexane, toluene, ethylbenzene, o-xylene, xylenes, total, and isopropylbenzene) were detected. Semi-VOCs (acetophenone, naphthalene, 2-methylnaphthalene, biphenyl, acenaphthylene, acenaphthene, dibenzofuran, fluorene, phenanthrene, anthracene, carbazole, fluoranthene, pyrene, benzo(a)anthracene, chrysene, bis(2-ethylhexyl)phthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(ghi)perylene) were detected. Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) were detected. Diesel Range Organics/Oil Range Organics (TPH (C10-C20) and TPH (C20-C34) and Gasoline Range Organics (TPH (C6-C12) were detected. Each detected COC was below applicable compared standards, except for benzo(a)pyrene (SB-07-03-05) and arsenic (SB-07-03-05 and SB-06-00-02), which were above Generic Direct Contact Standards for Residential Use. Table 5.5.1 shows the summary of



sample results for COCs detected in soil. A table summarizing each COC analyzed and the associated laboratory report are presented in **Appendix C**.

Table 4: Soil Sampling Analytical Results Summary (by property)

| RM-023, Homeworth ETC Commercial Property<br>4800 Ruffini Court, Cleveland, Ohio 44105 |                   |                        |                        |                |                                                 |                                                               |
|----------------------------------------------------------------------------------------|-------------------|------------------------|------------------------|----------------|-------------------------------------------------|---------------------------------------------------------------|
| Boring ID                                                                              | Sample Depth (ft) | Sample Collection Date | Parameter              | Result (mg/kg) | Residential Soil Screening Levels <sup>-1</sup> | Commercial and Industrial Soil Screening Levels <sup>-2</sup> |
| SB-01                                                                                  | 08-10             | 1/10/2023              | TPH (C10-C20)          | 17.7 J         | NA                                              | NA                                                            |
| SB-01                                                                                  | 08-10             | 1/10/2023              | TPH (C20-C34)          | 24.9           | NA                                              | NA                                                            |
| SB-01                                                                                  | 08-10             | 1/10/2023              | TPH (C6-C12)           | 1.89 J         | NA                                              | NA                                                            |
| SB-01                                                                                  | 08-10             | 1/10/2023              | Arsenic                | 8.16           | 14                                              | 100                                                           |
| SB-01                                                                                  | 08-10             | 1/10/2023              | Barium                 | 81             | 30,000                                          | 76,000                                                        |
| SB-01                                                                                  | 08-10             | 1/10/2023              | Cadmium                | 0.238 J        | 140                                             | 3300                                                          |
| SB-01                                                                                  | 08-10             | 1/10/2023              | Chromium               | 4.91           | NA                                              | NA                                                            |
| SB-01                                                                                  | 08-10             | 1/10/2023              | Lead                   | 8.92           | 400                                             | 800                                                           |
| SB-01                                                                                  | 08-10             | 1/10/2023              | Selenium               | 0.152 J        | 780                                             | 23,000                                                        |
| SB-01                                                                                  | 08-10             | 1/10/2023              | Silver                 | 0.126 J        | 780                                             | 23,000                                                        |
| SB-02                                                                                  | 00-02             | 1/10/2023              | TPH (C10-C20)          | 275 J          | NA                                              | NA                                                            |
| SB-02                                                                                  | 00-02             | 1/10/2023              | TPH (C20-C34)          | 333            | NA                                              | NA                                                            |
| SB-02                                                                                  | 00-02             | 1/10/2023              | TPH (C6-C12)           | 6.14 J         | NA                                              | NA                                                            |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Acetophenone           | 0.086 J        | 2,500                                           | 2,500                                                         |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Naphthalene            | 2              | 96                                              | 420                                                           |
| SB-02                                                                                  | 00-02             | 1/10/2023              | 2-Methylnaphthalene    | 1.9            | 480                                             | 8,900                                                         |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Biphenyl               | 0.52           | NA                                              | NA                                                            |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Acenaphthylene         | 0.084 J        | 7,200                                           | 130,000                                                       |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Acenaphthene           | 0.075 J        | 7,200                                           | 1,000,000                                                     |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Dibenzofuran           | 0.25           | 160                                             | 4700                                                          |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Fluorene               | 0.25           | 4,800                                           | 89,000                                                        |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Phenanthrene           | 1.4            | 36,000                                          | 670,000                                                       |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Anthracene             | 0.16           | 36,000                                          | 670,000                                                       |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Carbazole              | 0.093 J        | 540                                             | 3,500                                                         |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Fluoranthene           | 0.57           | 4,800                                           | 89,000                                                        |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Pyrene                 | 0.81           | 3,600                                           | 67,000                                                        |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Benzo(a)anthracene     | 0.36           | 23                                              | 610                                                           |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Chrysene               | 0.67           | 2,300                                           | 62,000                                                        |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Benzo(b)fluoranthene   | 0.47           | 23                                              | 620                                                           |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Benzo(k)fluoranthene   | 0.14           | 230                                             | 6,200                                                         |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Benzo(a)pyrene         | 0.31           | 2.3                                             | 62                                                            |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Indeno(1,2,3-cd)pyrene | 0.22           | 23                                              | 620                                                           |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Dibenzo(a,h)anthracene | 0.068 J        | 2.3                                             | 62                                                            |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Benzo(ghi)perylene     | 0.24           | 3,600                                           | 67,000                                                        |
| SB-02                                                                                  | 00-02             | 1/10/2023              | Arsenic                | 10.7           | 14                                              | 100                                                           |

|                                                                                       |       |           |                      |           |        |         |
|---------------------------------------------------------------------------------------|-------|-----------|----------------------|-----------|--------|---------|
| SB-02                                                                                 | 00-02 | 1/10/2023 | Barium               | 83.8      | 30,000 | 76,000  |
| SB-02                                                                                 | 00-02 | 1/10/2023 | Cadmium              | 1.73      | 140    | 3,300   |
| SB-02                                                                                 | 00-02 | 1/10/2023 | Chromium             | 307       | NA     | NA      |
| SB-02                                                                                 | 00-02 | 1/10/2023 | Lead                 | 27        | 400    | 800     |
| SB-02                                                                                 | 00-02 | 1/10/2023 | Selenium             | 1.01      | 780    | 23,000  |
| SB-02                                                                                 | 00-02 | 1/10/2023 | Benzene              | 0.002     | 28     | 130     |
| SB-02                                                                                 | 00-02 | 1/10/2023 | Methyl cyclohexane   | 0.00059 J | NA     | NA      |
| SB-02                                                                                 | 00-02 | 1/10/2023 | Toluene              | 0.0017    | 820    | 820     |
| SB-02                                                                                 | 00-02 | 1/10/2023 | Ethylbenzene         | 0.00041 J | 140    | 480     |
| SB-02                                                                                 | 00-02 | 1/10/2023 | o-Xylene             | 0.00027 J | NA     | NA      |
| SB-02                                                                                 | 00-02 | 1/10/2023 | Xylenes, Total       | 0.00027 J | 260    | 260     |
| SB-02                                                                                 | 00-02 | 1/10/2023 | Isopropylbenzene     | 0.00012 J | 270    | 270     |
| Property RM-025, Duck Creek Energy<br>3403521LTV Steel #10 #10, Cleveland, Ohio 44105 |       |           |                      |           |        |         |
| SB-03                                                                                 | 08-10 | 1/10/2023 | TPH (C10-C20)        | 17.9      | NA     | NA      |
| SB-03                                                                                 | 08-10 | 1/10/2023 | TPH (C20-C34)        | 16.6 U    | NA     | NA      |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Naphthalene          | 0.11      | 96     | 420     |
| SB-03                                                                                 | 08-10 | 1/10/2023 | 2-Methylnaphthalene  | 0.13 J    | 480    | 8,900   |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Dibenzofuran         | 0.028 J   | 160    | 4,700   |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Phenanthrene         | 0.062 J   | 36,000 | 670,000 |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Fluoranthene         | 0.043 J   | 4,800  | 89,000  |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Pyrene               | 0.043 J   | 3,600  | 67,000  |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Benzo(a)anthracene   | 0.035 J   | 23     | 610     |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Chrysene             | 0.034 J   | 2,300  | 62,000  |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Benzo(b)fluoranthene | 0.039 J   | 23     | 620     |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Arsenic              | 9.66      | 14     | 100     |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Barium               | 23.7      | 30,000 | 760,000 |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Cadmium              | 0.27 J    | 140    | 3,300   |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Chromium             | 5.66      | NA     | NA      |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Lead                 | 8.25      | 400    | 800     |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Selenium             | 0.178 J   | 780    | 23,000  |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Silver               | 0.146 J   | 780    | 23,000  |
| SB-03                                                                                 | 08-10 | 1/10/2023 | Bromomethane         | 0.0023 J+ | 17     | 76      |
| SB-04                                                                                 | 02-04 | 1/10/2023 | TPH (C10-C20)        | 45.8 J    | NA     | NA      |
| SB-04                                                                                 | 02-04 | 1/10/2023 | TPH (C20-C34)        | 52.9      | NA     | NA      |
| SB-04                                                                                 | 02-04 | 1/10/2023 | Arsenic              | 13.2      | 14     | 100     |
| SB-04                                                                                 | 02-04 | 1/10/2023 | Barium               | 72.9      | 30,000 | 760,000 |
| SB-04                                                                                 | 02-04 | 1/10/2023 | Cadmium              | 0.434 J   | 140    | 3,300   |
| SB-04                                                                                 | 02-04 | 1/10/2023 | Chromium             | 14.8      | NA     | NA      |
| SB-04                                                                                 | 02-04 | 1/10/2023 | Lead                 | 13.9      | 400    | 800     |
| SB-04                                                                                 | 02-04 | 1/10/2023 | Silver               | 0.161 J   | 780    | 23,000  |

| Property RM-062, Cleveland ISG Works<br>Wheeling & LE RR, Cleveland, Ohio 44105 |              |                  |                            |            |            |            |
|---------------------------------------------------------------------------------|--------------|------------------|----------------------------|------------|------------|------------|
| SB-05                                                                           | 05-07        | 1/10/2023        | TPH (C10-C20)              | 36.8 J     | NA         | NA         |
| SB-05                                                                           | 05-07        | 1/10/2023        | TPH (C20-C34)              | 33         | NA         | NA         |
| SB-05                                                                           | 05-07        | 1/10/2023        | 2-Methylnaphthalene        | 0.034 J    | 480        | 8,900      |
| SB-05                                                                           | 05-07        | 1/10/2023        | Arsenic                    | 11.3       | 14         | 100        |
| SB-05                                                                           | 05-07        | 1/10/2023        | Barium                     | 33.8       | 30,000     | 760,000    |
| SB-05                                                                           | 05-07        | 1/10/2023        | Cadmium                    | 0.339 J    | 140        | 3,300      |
| SB-05                                                                           | 05-07        | 1/10/2023        | Chromium                   | 10.5       | NA         | NA         |
| SB-05                                                                           | 05-07        | 1/10/2023        | Lead                       | 28.1       | 400        | 800        |
| SB-05                                                                           | 05-07        | 1/10/2023        | Selenium                   | 0.243 J    | 780        | 23,000     |
| SB-05                                                                           | 05-07        | 1/10/2023        | Silver                     | 0.172 J    | 780        | 23,000     |
| SB-06                                                                           | 00-02        | 1/10/2023        | TPH (C10-C20)              | 85.7       | NA         | NA         |
| SB-06                                                                           | 00-02        | 1/10/2023        | TPH (C20-C34)              | 218        | NA         | NA         |
| SB-06                                                                           | 00-02        | 1/10/2023        | TPH (C6-C12)               | 19.5       | NA         | NA         |
| SB-06                                                                           | 00-02        | 1/10/2023        | Acetophenone               | 0.14 J     | 2,500      | 2,500      |
| SB-06                                                                           | 00-02        | 1/10/2023        | Naphthalene                | 0.96       | 96         | 420        |
| SB-06                                                                           | 00-02        | 1/10/2023        | 2-Methylnaphthalene        | 1.4        | 480        | 8,900      |
| SB-06                                                                           | 00-02        | 1/10/2023        | Biphenyl                   | 0.18 J     | NA         | NA         |
| SB-06                                                                           | 00-02        | 1/10/2023        | Acenaphthylene             | 0.19       | 7,200      | 130,000    |
| SB-06                                                                           | 00-02        | 1/10/2023        | Acenaphthene               | 0.12 J     | 7,200      | 1,000,000  |
| SB-06                                                                           | 00-02        | 1/10/2023        | Dibenzofuran               | 0.39       | 160        | 4,700      |
| SB-06                                                                           | 00-02        | 1/10/2023        | Fluorene                   | 0.13 J     | 4,800      | 89,000     |
| SB-06                                                                           | 00-02        | 1/10/2023        | Phenanthrene               | 2.2        | 36,000     | 670,000    |
| SB-06                                                                           | 00-02        | 1/10/2023        | Anthracene                 | 0.37       | 36,000     | 670,000    |
| SB-06                                                                           | 00-02        | 1/10/2023        | Carbazole                  | 0.24       | 540        | 3,500      |
| SB-06                                                                           | 00-02        | 1/10/2023        | Fluoranthene               | 3.6        | 4,800      | 89,000     |
| SB-06                                                                           | 00-02        | 1/10/2023        | Pyrene                     | 3.3        | 3,600      | 67,000     |
| SB-06                                                                           | 00-02        | 1/10/2023        | Benzo(a)anthracene         | 2.2        | 23         | 610        |
| SB-06                                                                           | 00-02        | 1/10/2023        | Chrysene                   | 2.7        | 2,300      | 62,000     |
| SB-06                                                                           | 00-02        | 1/10/2023        | Bis(2-ethylhexyl)phthalate | 0.067 J    | 780        | 5,100      |
| SB-06                                                                           | 00-02        | 1/10/2023        | Benzo(b)fluoranthene       | 4.3        | 23         | 620        |
| SB-06                                                                           | 00-02        | 1/10/2023        | Benzo(k)fluoranthene       | 1.2        | 230        | 6,200      |
| <b>SB-06</b>                                                                    | <b>00-02</b> | <b>1/10/2023</b> | <b>Benzo(a)pyrene</b>      | <b>3.3</b> | <b>2.3</b> | <b>62</b>  |
| SB-06                                                                           | 00-02        | 1/10/2023        | Indeno(1,2,3-cd)pyrene     | 2.4        | 23         | 620        |
| SB-06                                                                           | 00-02        | 1/10/2023        | Dibenzo(a,h)anthracene     | 0.49       | 2.3        | 62         |
| SB-06                                                                           | 00-02        | 1/10/2023        | Benzo(ghi)perylene         | 2.1        | 3,600      | 67,000     |
| <b>SB-06</b>                                                                    | <b>00-02</b> | <b>1/10/2023</b> | <b>Arsenic</b>             | <b>15</b>  | <b>14</b>  | <b>100</b> |
| SB-06                                                                           | 00-02        | 1/10/2023        | Barium                     | 219        | 30,000     | 760,000    |



|              |              |                  |                    |           |           |            |
|--------------|--------------|------------------|--------------------|-----------|-----------|------------|
| SB-06        | 00-02        | 1/10/2023        | Cadmium            | 0.58      | 140       | 3,300      |
| SB-06        | 00-02        | 1/10/2023        | Chromium           | 13.9      | NA        | NA         |
| SB-06        | 00-02        | 1/10/2023        | Lead               | 185       | 400       | 800        |
| SB-06        | 00-02        | 1/10/2023        | Mercury            | 0.064 J   | NA        | NA         |
| SB-06        | 00-02        | 1/10/2023        | Selenium           | 0.937     | 780       | 23,000     |
| SB-06        | 00-02        | 1/10/2023        | Silver             | 0.226     | 780       | 23,000     |
| SB-06        | 00-02        | 1/10/2023        | Cyclohexane        | 0.00056 J | 120       | 120        |
| SB-06        | 00-02        | 1/10/2023        | Methyl cyclohexane | 0.00077 J | NA        | NA         |
| SB-07        | 03-05        | 1/10/2023        | TPH (C10-C20)      | 25.9 J    | NA        | NA         |
| SB-07        | 03-05        | 1/10/2023        | TPH (C20-C34)      | 17.3 U    | NA        | NA         |
| <b>SB-07</b> | <b>03-05</b> | <b>1/10/2023</b> | <b>Arsenic</b>     | <b>15</b> | <b>14</b> | <b>100</b> |
| SB-07        | 03-05        | 1/10/2023        | Barium             | 45.7      | 30,000    | 760,000    |
| SB-07        | 03-05        | 1/10/2023        | Cadmium            | 0.622     | 140       | 3,300      |
| SB-07        | 03-05        | 1/10/2023        | Chromium           | 11.8      | NA        | NA         |
| SB-07        | 03-05        | 1/10/2023        | Lead               | 20.6      | 400       | 800        |
| SB-07        | 03-05        | 1/10/2023        | Selenium           | 0.219 J   | 780       | 23,000     |
| SB-07        | 03-05        | 1/10/2023        | Silver             | 0.157 J   | 780       | 23,000     |
| SB-08        | 08-10        | 1/10/2023        | TPH (C10-C20)      | 38.2 J    | NA        | NA         |
| SB-08        | 08-10        | 1/10/2023        | TPH (C20-C34)      | 20.2      | NA        | NA         |
| SB-08        | 08-10        | 1/10/2023        | TPH (C6-C12)       | 1.25 J    | NA        | NA         |
| SB-08        | 08-10        | 1/10/2023        | Arsenic            | 9.72      | 14        | 100        |
| SB-08        | 08-10        | 1/10/2023        | Barium             | 28.8      | 30,000    | 760,000    |
| SB-08        | 08-10        | 1/10/2023        | Cadmium            | 0.309 J   | 140       | 3,300      |
| SB-08        | 08-10        | 1/10/2023        | Chromium           | 7.63      | NA        | NA         |
| SB-08        | 08-10        | 1/10/2023        | Lead               | 10.7      | 400       | 800        |
| SB-08        | 08-10        | 1/10/2023        | Selenium           | 0.165 J   | 780       | 23,000     |
| SB-08        | 08-10        | 1/10/2023        | Silver             | 0.161 J   | 780       | 23,000     |

**Notes:**

NA = Not Available

J = Estimated value less than reporting limit, but greater than the method detection limit

J+ = Estimated value, potential of positive bias

-1 = Ohio Voluntary Action Program (VAP) Generic Direct Contact Soil Standards – Residential Land Use Category Criteria per VAP Rules OAC 3745-300-08 effective October 17, 2019

-2 = Ohio Voluntary Action Program (VAP) Generic Direct Contact Soil Standards – Commercial/Industrial Land Use Category Criteria per VAP Rules OAC 3745-300-08 effective October 17, 2019

**BOLD**=Exceedance of VAP Generic Direct Contact Soil Standards – Residential Land Use Category Criteria**3.6.2 Groundwater Elevation**

Groundwater was not encountered or sampled, and monitoring wells were not installed during sub-surface investigation activities. Groundwater direction could not be verified in the field; however, is expected to flow towards the Cuyahoga River, approximately 0.75 miles to the west of the Properties.

**3.6.3 Laboratory QA/QC**

Sample collection, quality assurance/quality control procedures (QA/QC), and employment of data quality objectives were conducted by TRC. The analytical data collected was evaluated to determine its suitability

for use for the project objectives. Appropriate laboratory QA/QC criteria were met and detection limits were sufficiently low to evaluate current conditions. TPH (C20-C34) for SB-07-03-05 and SB-03-08-10 were modified and changed to non-detect due to the initial values being a result of lab contamination. Additionally, carbon disulfide and bromomethane lab results were affected due to lab contamination either positively or negatively, biasing the results. However, affected soil samples were detected below the reporting limit. Affected samples are noted as either UJ- (negative bias) or J+ (positive biased) within the laboratory data packages included in **Appendix C**.

## 4. CONCLUSIONS & RECOMMENDATIONS

Present information revealed during the RMR Investigation used to reach the following recommendations:

Table 5: RMR Investigation Findings & Recommendations

|                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |        |                           |           |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|---------------------------|-----------|
| Project C-R-S / Name:                                                                                                              | CUY-77-11.21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PID: | 105743 | Project City/County       | Cleveland |
| Property ID#                                                                                                                       | Findings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |        | Next Step Recommendations |           |
| RM-023<br>Coast to Coast<br>Equipment /<br>Fleet Up<br>Transports / OHR<br>Rents<br>4800 Ruffini Court<br>Cleveland, Ohio<br>44105 | The following Constituents of Concern (COCs) were detected within the borings; however, each detected COC was below the Ohio Voluntary Action Program (VAP) Generic Direct Contact Soil Standards – Residential Land Use Category Criteria and Commercial/Industrial Land Use Category Criteria: VOCs (benzene, methyl cyclohexane, toluene, ethylbenzene, o-xylene, total xylenes, and, isopropylbenzene); Semi-VOCs (acetophenone, naphthalene, 2-methylnaphthalene, biphenyl, acenaphthylene, acenaphthene, dibenzofuran, fluorene, phenanthrene, anthracene, carbazole, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(ghi)perylene; Metals (arsenic, barium, cadmium, chromium, lead, selenium, and silver); and Total Petroleum Hydrocarbons (TPH (C6-C12), (C10-C20), and (C20-C34)). |      |        | No Further Action         |           |
| RM-025<br>Duck Creek<br>Energy<br>3403521LTV Steel<br>#10 #10<br>Cleveland, Ohio<br>44105                                          | The following Constituents of Concern were detected within the borings; however, each detected COC was below the Ohio VAP Generic Direct Contact Soil Standards – Residential Land Use Category Criteria and Commercial/Industrial Land Use Category Criteria: VOCs (bromomethane); Semi-VOCs (naphthalene, 2-methylnaphthalene, dibenzofuran, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, and benzo(k)fluoranthene); Metals (arsenic, barium, cadmium, chromium,                                                                                                                                                                                                                                                                                                                                                                                                                         |      |        | No Further Action         |           |

|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|                                                                                  | lead, selenium, and silver); and TPHs (C10-C20) and (C20-C34);                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| RM-062<br>Cleveland ISG<br>Works<br>Wheeling & LE RR<br>Cleveland, Ohio<br>44105 | <p>The following Constituents of Concern were detected; within the boring; however, each detected COC was below the Ohio VAP Generic Direct Contact Soil Standards – Residential Land Use Category Criteria and Commercial/Industrial Land Use Category Criteria: VOCs (cyclohexane and methyl cyclohexane); Semi-VOCs (acetophenone, naphthalene, 2-methylnaphthalene, biphenyl, acenaphthylene, acenaphthene, dibenzofuran, fluorene, phenanthrene, anthracene, carbazole, fluoranthene, pyrene, benzo(a)anthracene, chrysene, bis(2-ethylhexyl)phthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(ghi)perylene, TPHs (C6-C12), TPH (C10-C20), and TPH (C20-C34)).</p> <p>The exceptions are benzo(a)pyrene in SB-06-00-02 and arsenic in SB-06-00-02 and SB-07-03-05, which were detected slightly above the Ohio VAP Generic Direct Contact Soil Standards – Residential Land Use Category Criteria. Benzo(a)pyrene (3.3 milligrams per kilograms (mg/kg)) and arsenic (15 mg/kg) exceeded the standard of 2.3 mg/kg for benzo(a)pyrene and 14 mg/kg for arsenic.</p> <p>Benzo(a)pyrene and arsenic in SB-06 and SB-07 slightly exceeded Generic Direct Contact Soil Standards – Residential Land Use Category Criteria. However, no other COCs exceeded the standards and the results were below the Commercial and Industrial Land Use Category. No obvious signs of contamination were observed during field activities.</p> | Plan Note |

## RMR INVESTIGATION REPORT APPENDIX

### Appendix A - Project Figures

- Figure 1 – USGS Topographic Map
- Figure 2 – Property Diagram with Soil Sample Location
- Figure 3 – USDA Soil Survey
- Figure 4 – ODNR Physiographic Regions of Ohio
- Figure 5 – USGS Bedrock Geology Map of Ohio
- Figure 6 – Groundwater Vulnerability Index Map of Ohio
- Figure 7 – GPRS Utility Location Findings Map

### Appendix B - Geologic and Hydrogeologic Information

- Boring Logs

### Appendix C - Investigation Documentation

- Photolog
- Summary Table
- Laboratory Analytical Reports
- Chain of Custody
- Laboratory QA/QC report

### Appendix D - Project Plan Sheets

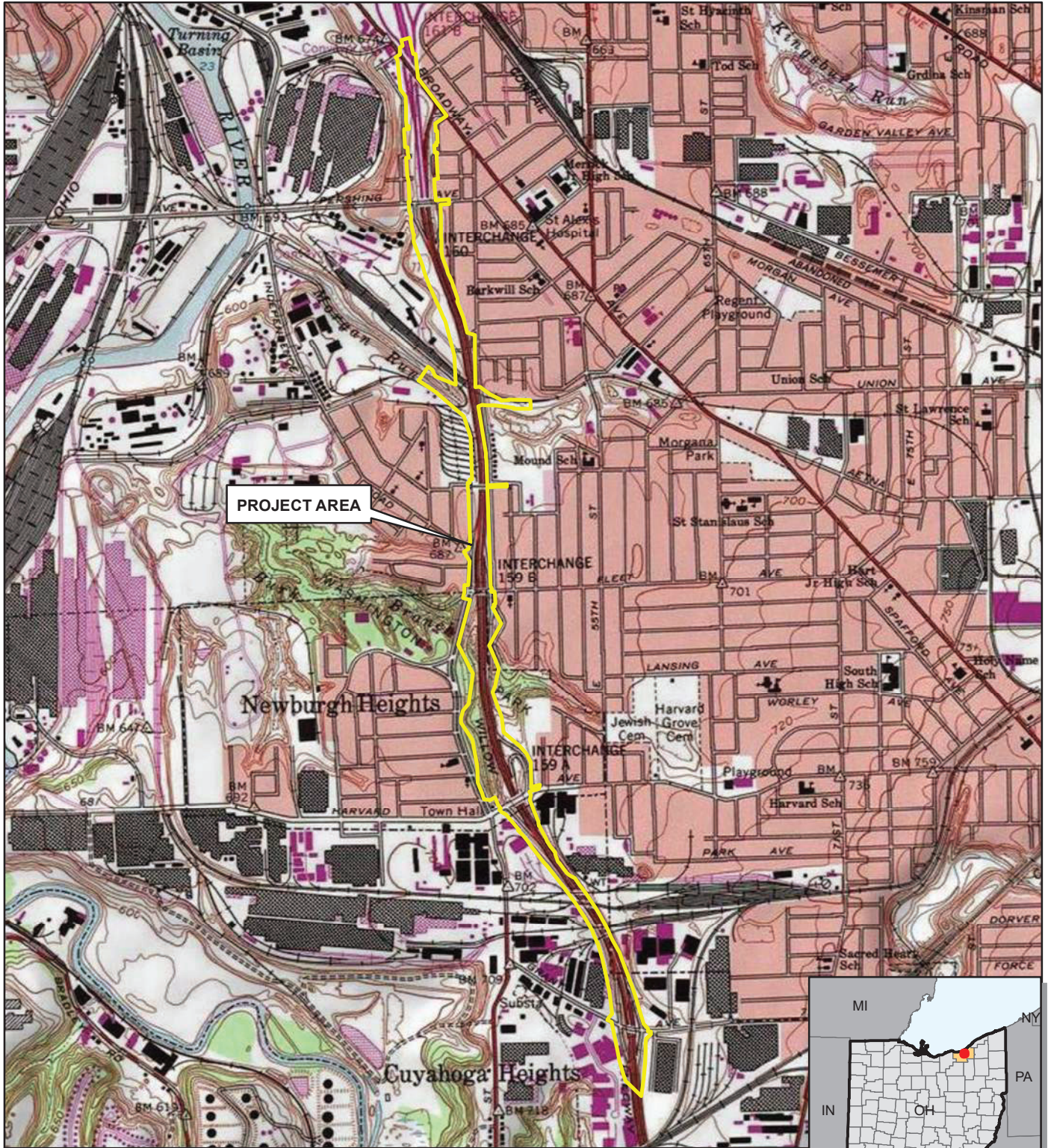
- Relevant construction plan sheets including right-of-way (ROW) plans, cross-sections, and/or plan and profile sheets.

### Appendix E - Other Information

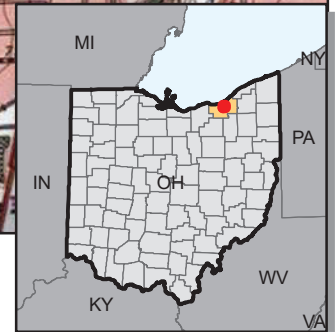
- Ohio Soil Recycling Non-Hazardous Waste Manifest/Waste Profile

## Appendix A: Project Figures





BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES. TOPO QUAD: CLEVELAND SOUTH



1382 West Ninth Street  
Suite 400  
Cleveland, OH 44113  
Phone: 216-344-3072

TRC - GIS

PROJECT:

**CUY-77-11.21, PID:105743  
CUYAHOGA COUNTY, OHIO**

TITLE:

**USGS TOPOGRAPHIC MAP**

DRAWN BY:

M. OPEL

CHECKED BY:

K. HENRY

APPROVED BY:

S. SCHIMMOELLER

DATE:

FEBRUARY 2023

PROJ. NO.:

301525

FILE:

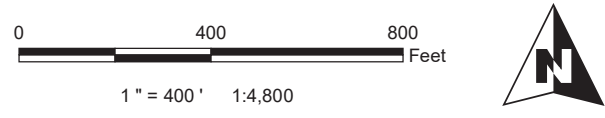
P2\_Fig01\_USGS\_Map\_8x11.mxd

**FIGURE 1**





- PROJECT LIMITS
- RMR PROPERTY
- CUYAHOGA COUNTY PARCEL BOUNDARY
- SOIL BORING



**CUY-77-11.21, PID: 105743**  
**CUYAHOGA COUNTY, OHIO**

**FIGURE 2**  
**PROPERTY DIAGRAM WITH SOIL SAMPLE LOCATIONS**

1382 West Ninth Street  
Suite 400  
Cleveland, OH 44113  
Phone: 216-344-3072

FEBRUARY 2023

P2\_Fig02\_SoilSamples\_11x17.mxd





1382 West Ninth Street  
Suite 400  
Cleveland, OH 44113  
Phone: 216-344-3072

TRC - GIS

PROJECT:

**CUY-77-11.21, PID:105743  
CUYAHOGA COUNTY, OHIO**

TITLE:

**USDA SOIL SURVEY**

DRAWN BY:

M. OPEL

CHECKED BY:

K. HENRY

APPROVED BY:

S. SCHIMMOELLER

DATE:

FEBRUARY 2023

PROJ. NO.:

301525

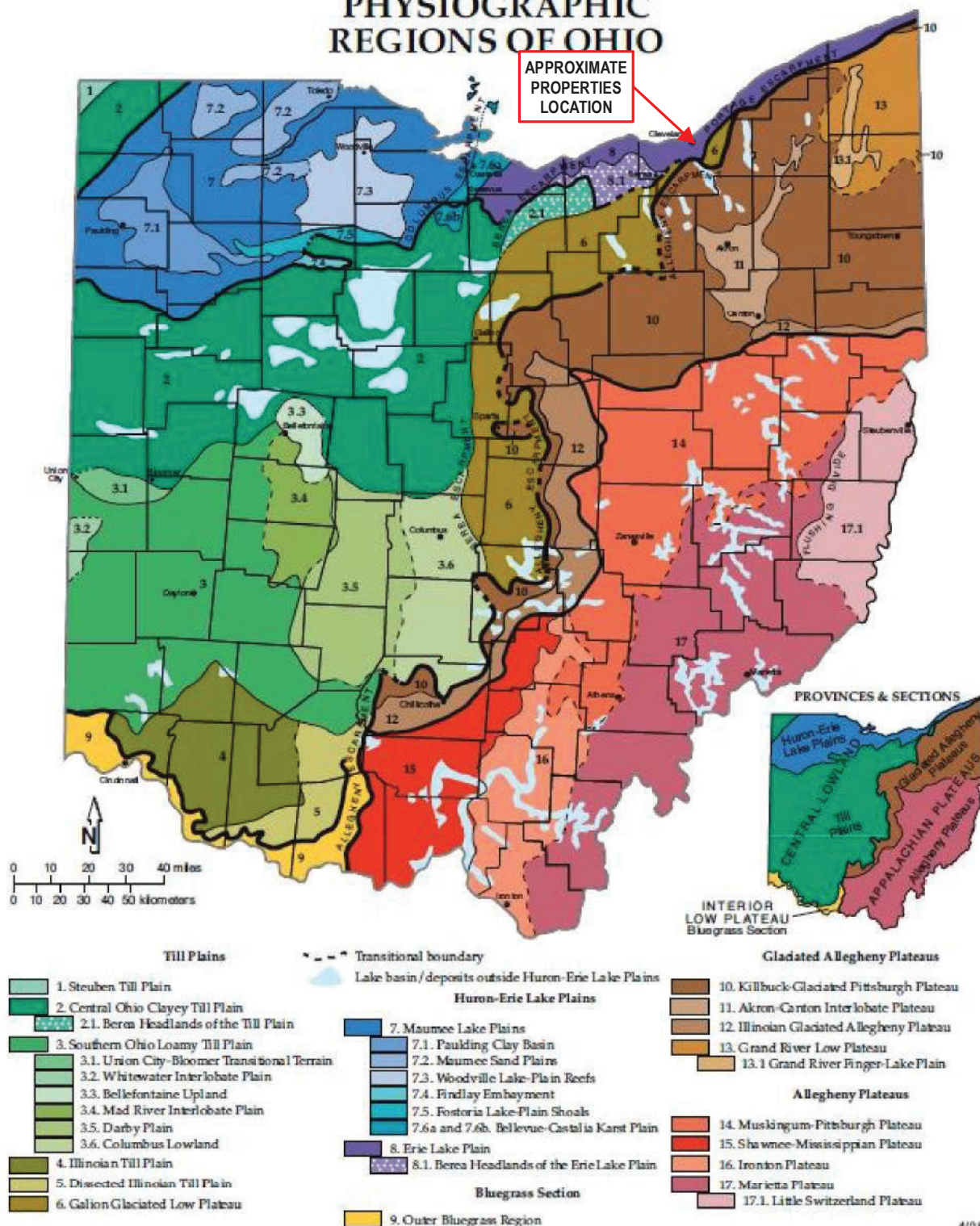
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P2\_Fig03\_Soil\_8x11.mxd

**FIGURE 3**



# PHYSIOGRAPHIC REGIONS OF OHIO



1382 West Ninth Street  
Suite 400  
Cleveland, OH 44113  
Phone: 216-344-3072

TRC - GIS

PROJECT:

CUY-77-11.21, PID:105743  
CUYAHOGA COUNTY, OHIO

TITLE:

ODNR PHYSIOGRAPHIC REGIONS OF OHIO

DRAWN BY:

M. OPEL

CHECKED BY:

K. HENRY

APPROVED BY:

S. SCHIMMOELLER

DATE:

FEBRUARY 2023

PROJ. NO.:

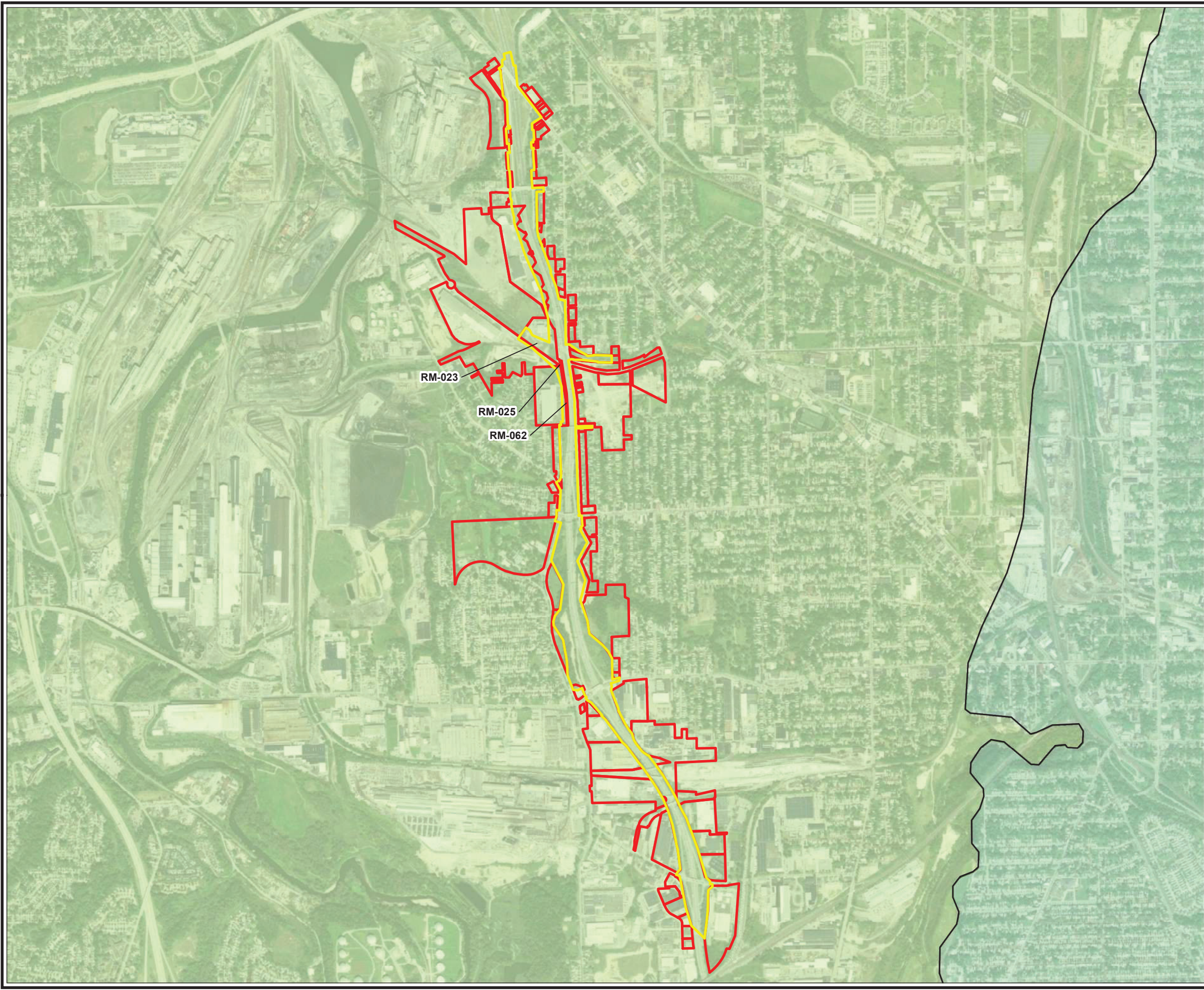
301525

FILE:

P2\_Fig04\_PhysioRegions\_8x11.mxd

FIGURE 4





PROJECT LIMITS

RMR PROPERTY

BEDROCK GEOLOGY

OHIO SHALE

BEREA SANDSTONE/BEDFORD SHALE



01,6003,200

Feet

1" = 1,583' 1:18,997

N

CUY-77-11.21, PID: 105743  
CUYAHOGA COUNTY, OHIO

FIGURE 5  
USGS BEDROCK GEOLOGY  
MAPS OF OHIO - PROJECT LIMITS

TRC

1382 West Ninth Street  
Suite 400  
Cleveland, OH 44113  
Phone: 216-344-3072

FEBRUARY 2023

P2\_Fig05\_Bedrock\_11x17.mxd

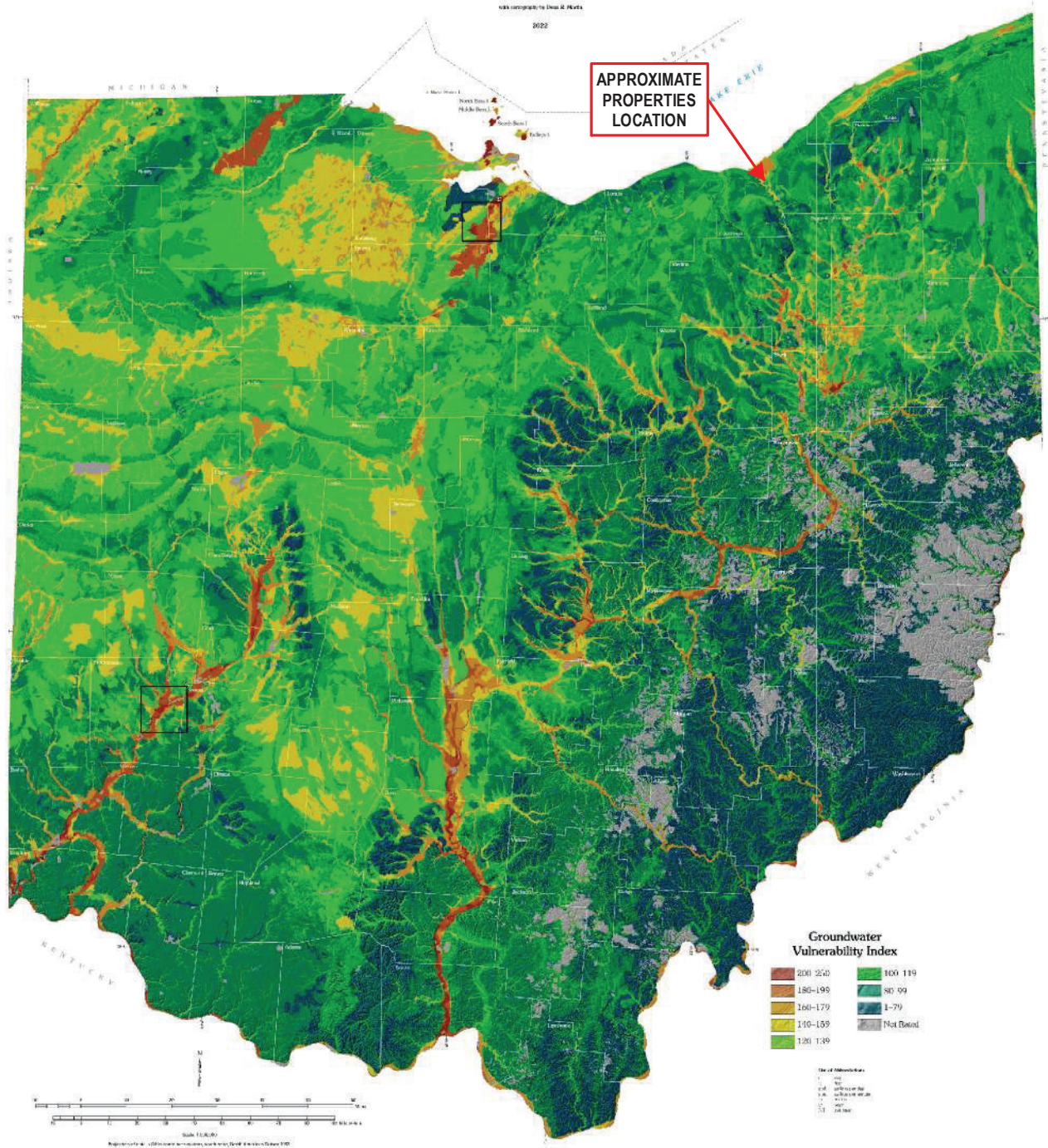


# GROUNDWATER VULNERABILITY INDEX MAP OF OHIO

by  
Craig B. Nelson, Thomas R. Valocchi, Michael P. Anglo, Ronald N. Haidt, T. Andy Nash, Paul K. Spivey, James M. Barth, and Curtis J. Coo

with cartography by David M. Platteau

2022



1382 West Ninth Street  
Suite 400  
Cleveland, OH 44113  
Phone: 216-344-3072

TRC - GIS

PROJECT:

**CUY-77-11.21, PID:105743  
CUYAHOGA COUNTY, OHIO**

TITLE:

**GROUNDWATER VULNERABILITY  
INDEX MAP OF OHIO**

DRAWN BY:

M. OPEL

CHECKED BY:

K. HENRY

APPROVED BY:

S. SCHIMMOELLER

DATE:

FEBRUARY 2023

PROJ. NO.:

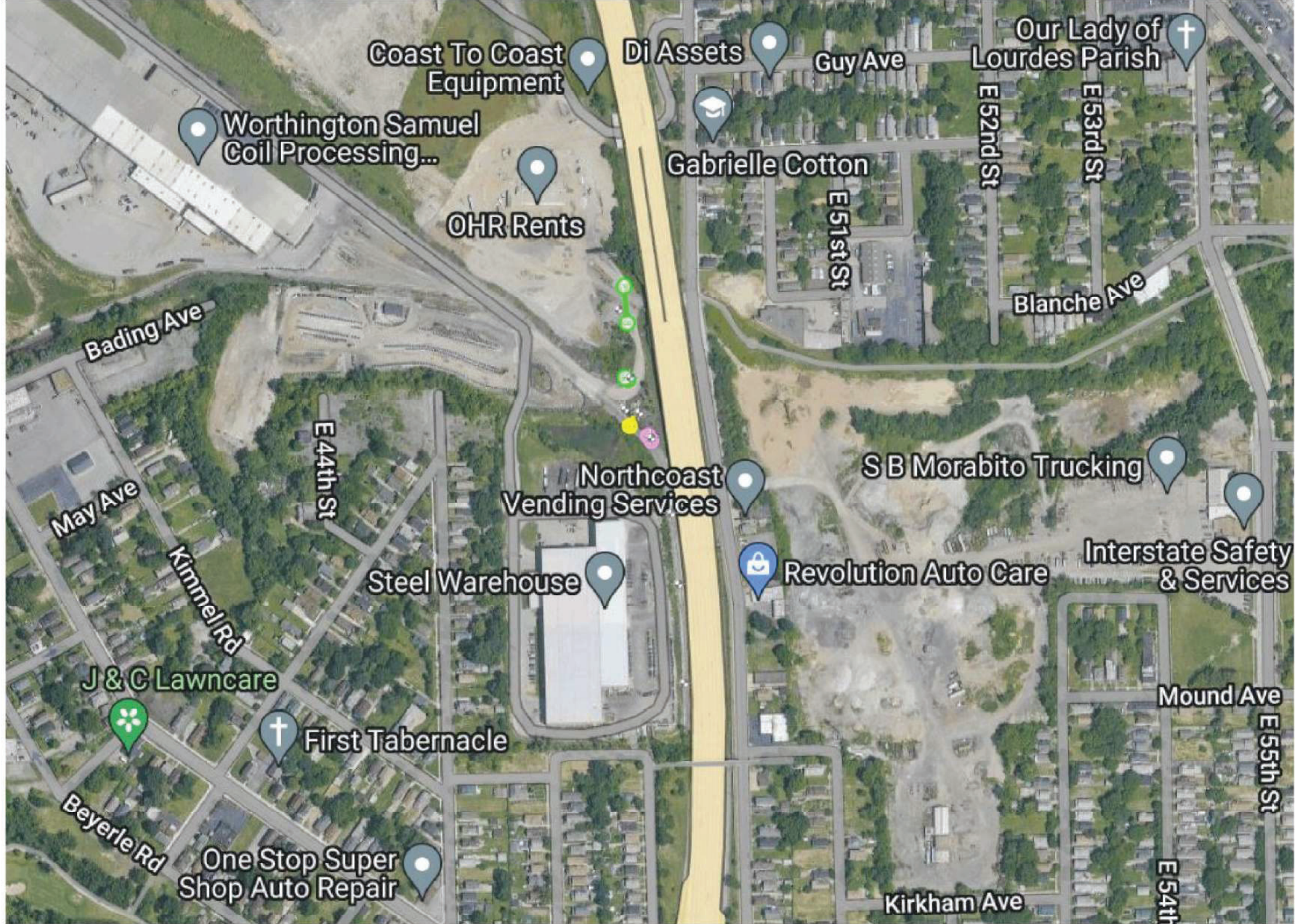
301525

FILE:

P2\_Fig06\_GWVulnerability\_8x11.mxd

**FIGURE 6**





- FUEL/GAS/OIL
- STORM
- UNKNOWN

CUY-77-11.21, PID: 105743  
CUYAHOGA COUNTY, OHIO

FIGURE 7  
GPRS UTILITY LOCATION FINDINGS MAP



1382 West Ninth Street  
Suite 400  
Cleveland, OH 44113  
Phone: 216-344-3072



## **Appendix B: Geological and Hydrogeological Information**



## SOIL BORING LOG

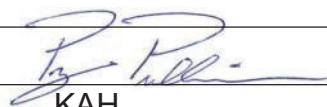
BORING NO. SB-01

Page 1 of 1

|                                                                               |  |                                   |  |                                                          |  |                                                                                               |  |                               |  |                                  |  |
|-------------------------------------------------------------------------------|--|-----------------------------------|--|----------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|--|-------------------------------|--|----------------------------------|--|
| Facility/Project Name:<br>CUY 77-11.21 I-77 Corridor RMR Phase II (PID105743) |  | Date Drilling Started:<br>1/10/23 |  | Date Drilling Completed:<br>1/10/23                      |  | Project Number:<br>301525.1000.0000                                                           |  |                               |  |                                  |  |
| Drilling Firm:<br>AST                                                         |  | Drilling Method:<br>Geoprobe      |  | Surface Elev. (ft)<br>---                                |  | TOC Elevation (ft)<br>---                                                                     |  | Total Depth (ft bgs)<br>15.0  |  | Borehole Dia. (in)<br>2.5        |  |
| Boring Location:<br>RM-023                                                    |  |                                   |  | Personnel<br>Logged By - K. Henry<br>Driller - B. Gasner |  |                                                                                               |  | Drilling Equipment:<br>7822DT |  |                                  |  |
| Civil Town/City/or Village:<br>Cleveland                                      |  | County:<br>Cuyahoga               |  | State:<br>Ohio                                           |  | Water Level Observations:<br>While Drilling:      Date/Time<br>After Drilling:      Date/Time |  |                               |  | Depth (ft bgs)<br>Depth (ft bgs) |  |

| SAMPLE          |              | BLOW COUNTS | DEPTH IN FEET | LITHOLOGIC DESCRIPTION                                                                                  | USCS | GRAPHIC LOG | PID (PPM) | COMMENTS |
|-----------------|--------------|-------------|---------------|---------------------------------------------------------------------------------------------------------|------|-------------|-----------|----------|
| NUMBER AND TYPE | RECOVERY (%) |             |               |                                                                                                         |      |             |           |          |
| 1 GP            | 75           |             | 2             | Medium soft, brown to dark brown, silt with clay and fine grained sand, slightly moist, no odor, (fill) |      |             | 0.5       |          |
|                 |              |             | 4             |                                                                                                         |      |             | 0.7       |          |
| 2 GP            | 62.5         |             | 6             | Medium dense, brown, silt with fine grained sand and trace fine gravel, moist, no odor, (fill)          |      |             | 0.1       |          |
|                 |              |             | 8             |                                                                                                         |      |             | 0.6       |          |
| 3 GP            | 62.5         |             | 10            | Soft, brown, silt with fine grained sand, moist, no odor, (fill)                                        |      |             | 0.6       |          |
|                 |              |             | 12            |                                                                                                         |      |             | 0.6       |          |
|                 |              |             | 14            | End of Boring - 12ft bgs                                                                                |      |             |           |          |
|                 |              |             | 16            |                                                                                                         |      |             |           |          |
|                 |              |             | 18            |                                                                                                         |      |             |           |          |

SOIL BORING LOG WITH PHOTO - ODOT - CUY 77\_GINT LOGS\_RSP.GPJ 301525.1000.0000 2/2/23

|                                                                                                |                                                            |     |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|
| Signature:  | Firm: CLE<br>1382 W. 9th St., Ste. 400 Cleveland, OH 44113 | Fax |
| Checked By: KAH                                                                                |                                                            |     |





## SOIL BORING LOG

BORING NO. SB-02

Page 1 of 1

|                                                                               |  |                                                          |  |                                     |  |                                                                                               |  |
|-------------------------------------------------------------------------------|--|----------------------------------------------------------|--|-------------------------------------|--|-----------------------------------------------------------------------------------------------|--|
| Facility/Project Name:<br>CUY 77-11.21 I-77 Corridor RMR Phase II (PID105743) |  | Date Drilling Started:<br>1/10/23                        |  | Date Drilling Completed:<br>1/10/23 |  | Project Number:<br>301525.1000.0000                                                           |  |
| Drilling Firm:<br>AST                                                         |  | Drilling Method:<br>Geoprobe                             |  | Surface Elev. (ft)<br>---           |  | TOC Elevation (ft)<br>---                                                                     |  |
| Boring Location:<br>RM-023                                                    |  | Personnel<br>Logged By - K. Henry<br>Driller - B. Gasner |  | Total Depth (ft bgs)<br>15.0        |  | Borehole Dia. (in)<br>2.5                                                                     |  |
| Civil Town/City/or Village:<br>Cleveland                                      |  | County:<br>Cuyahoga                                      |  | State:<br>Ohio                      |  | Water Level Observations:<br>While Drilling:      Date/Time<br>After Drilling:      Date/Time |  |
|                                                                               |  |                                                          |  |                                     |  | Drilling Equipment:<br>7822DT                                                                 |  |
|                                                                               |  |                                                          |  |                                     |  | Depth (ft bgs)<br>Depth (ft bgs)                                                              |  |

| SAMPLE          |              | BLOW COUNTS | DEPTH IN FEET | LITHOLOGIC DESCRIPTION                                                                                 | USCS | GRAPHIC LOG | PID (PPM) | COMMENTS                                  |
|-----------------|--------------|-------------|---------------|--------------------------------------------------------------------------------------------------------|------|-------------|-----------|-------------------------------------------|
| NUMBER AND TYPE | RECOVERY (%) |             |               |                                                                                                        |      |             |           |                                           |
| 1 GP            | 37.5         |             | 2             | Medium dense to loose, dark brown to black, silt with gravel, moist, slag material, light odor, (fill) |      |             | 1.5       | Sample Collected @ 1335 (0-2')            |
|                 |              |             | 4             | End of Boring - 2.5ft bgs (refusal)                                                                    |      |             |           | Offset three times, refusal at same depth |
|                 |              |             | 6             |                                                                                                        |      |             |           |                                           |
|                 |              |             | 8             |                                                                                                        |      |             |           |                                           |
|                 |              |             | 10            |                                                                                                        |      |             |           |                                           |
|                 |              |             | 12            |                                                                                                        |      |             |           |                                           |
|                 |              |             | 14            |                                                                                                        |      |             |           |                                           |
|                 |              |             | 16            |                                                                                                        |      |             |           |                                           |
|                 |              |             | 18            |                                                                                                        |      |             |           |                                           |

|                                                                                                |                                                            |     |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|
| Signature:  | Firm: CLE<br>1382 W. 9th St., Ste. 400 Cleveland, OH 44113 | Fax |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|

Checked By: KAH

SOIL BORING LOG WITH PHOTO - ODOT - CUY 77\_GINT LOGS\_RSP.GPJ 301525.1000.0000 2/2/23



## SOIL BORING LOG

BORING NO. SB-03

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|                                                                               |  |                                   |  |                                                          |  |                                                                                               |  |                               |  |                                  |  |
|-------------------------------------------------------------------------------|--|-----------------------------------|--|----------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|--|-------------------------------|--|----------------------------------|--|
| Facility/Project Name:<br>CUY 77-11.21 I-77 Corridor RMR Phase II (PID105743) |  | Date Drilling Started:<br>1/10/23 |  | Date Drilling Completed:<br>1/10/23                      |  | Project Number:<br>301525.1000.0000                                                           |  |                               |  |                                  |  |
| Drilling Firm:<br>AST                                                         |  | Drilling Method:<br>Geoprobe      |  | Surface Elev. (ft)<br>---                                |  | TOC Elevation (ft)<br>---                                                                     |  | Total Depth (ft bgs)<br>15.0  |  | Borehole Dia. (in)<br>2.5        |  |
| Boring Location:<br>RM-025                                                    |  |                                   |  | Personnel<br>Logged By - K. Henry<br>Driller - B. Gasner |  |                                                                                               |  | Drilling Equipment:<br>7822DT |  |                                  |  |
| Civil Town/City/or Village:<br>Cleveland                                      |  | County:<br>Cuyahoga               |  | State:<br>Ohio                                           |  | Water Level Observations:<br>While Drilling:      Date/Time<br>After Drilling:      Date/Time |  |                               |  | Depth (ft bgs)<br>Depth (ft bgs) |  |

| SAMPLE          |              | BLOW COUNTS | DEPTH IN FEET | LITHOLOGIC DESCRIPTION                                           | USCS | GRAPHIC LOG | PID (PPM) | COMMENTS |
|-----------------|--------------|-------------|---------------|------------------------------------------------------------------|------|-------------|-----------|----------|
| NUMBER AND TYPE | RECOVERY (%) |             |               |                                                                  |      |             |           |          |
| 1 GP            | 50           |             | 2             | Slag fill                                                        |      |             | 0.1       |          |
|                 |              |             | 4             | Medium dense, clay with fine sand, moist, no odor, (fill) silt   |      |             | 0.3       |          |
| 2 GP            | 32.5         |             | 6             | slag                                                             |      |             | 0.1       |          |
|                 |              |             | 8             |                                                                  |      |             | 0.0       |          |
|                 |              |             | 10            | Medium stiff, brown, silt with fine grained sand, moist, no odor |      |             | 0.2       |          |
| 3 GP            | 42.5         |             | 12            | Medium dense, reddish brown, silt with clay, moist, no odor      |      |             | 0.0       |          |
|                 |              |             | 14            |                                                                  |      |             |           |          |
|                 |              |             | 16            |                                                                  |      |             |           |          |
|                 |              |             | 18            |                                                                  |      |             |           |          |
|                 |              |             |               | End of Boring - 12 ft bgs                                        |      |             |           |          |

SOIL BORING LOG WITH PHOTO - ODOT - CUY 77\_GINT LOGS\_RSP.GPJ 301525.1000.0000 2/2/23

|                 |                                                            |     |
|-----------------|------------------------------------------------------------|-----|
| Signature:      | Firm: CLE<br>1382 W. 9th St., Ste. 400 Cleveland, OH 44113 | Fax |
| Checked By: KAH |                                                            |     |





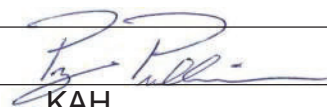
## SOIL BORING LOG

BORING NO. SB-04

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|                                                                               |  |                                   |  |                                                          |  |                                                                                               |  |                               |  |                                  |  |
|-------------------------------------------------------------------------------|--|-----------------------------------|--|----------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|--|-------------------------------|--|----------------------------------|--|
| Facility/Project Name:<br>CUY 77-11.21 I-77 Corridor RMR Phase II (PID105743) |  | Date Drilling Started:<br>1/10/23 |  | Date Drilling Completed:<br>1/10/23                      |  | Project Number:<br>301525.1000.0000                                                           |  |                               |  |                                  |  |
| Drilling Firm:<br>AST                                                         |  | Drilling Method:<br>Geoprobe      |  | Surface Elev. (ft)<br>---                                |  | TOC Elevation (ft)<br>---                                                                     |  | Total Depth (ft bgs)<br>15.0  |  | Borehole Dia. (in)<br>2.5        |  |
| Boring Location:<br>RM-025                                                    |  |                                   |  | Personnel<br>Logged By - K. Henry<br>Driller - B. Gasner |  |                                                                                               |  | Drilling Equipment:<br>7822DT |  |                                  |  |
| Civil Town/City/or Village:<br>Cleveland                                      |  | County:<br>Cuyahoga               |  | State:<br>Ohio                                           |  | Water Level Observations:<br>While Drilling:      Date/Time<br>After Drilling:      Date/Time |  |                               |  | Depth (ft bgs)<br>Depth (ft bgs) |  |

| SAMPLE          |              | BLOW COUNTS | DEPTH IN FEET | LITHOLOGIC DESCRIPTION                                                                       | USCS | GRAPHIC LOG | PID (PPM) | COMMENTS                       |
|-----------------|--------------|-------------|---------------|----------------------------------------------------------------------------------------------|------|-------------|-----------|--------------------------------|
| NUMBER AND TYPE | RECOVERY (%) |             |               |                                                                                              |      |             |           |                                |
| 1 GP            | 55           |             | 2             | Medium stiff, brown, clay with silt and fine grained sand, moist, no odor, (fill)<br>asphalt |      |             | 0.6       |                                |
|                 |              |             | 3             | Medium dense, dark brown, silt with gravel and asphalt, moist, no odor, (fill)               |      |             | 0.3       |                                |
| 2 GP            | 20           |             | 4             | Soft, brown, clay with silt, moist, moderately plastic, no odor, (fill)                      |      |             |           | Sample Collected @ 1255 (2-4') |
|                 |              |             | 6             | End of Boring - 5.0ft bgs (refusal)                                                          |      |             |           |                                |
|                 |              |             | 8             |                                                                                              |      |             |           |                                |
|                 |              |             | 10            |                                                                                              |      |             |           |                                |
|                 |              |             | 12            |                                                                                              |      |             |           |                                |
|                 |              |             | 14            |                                                                                              |      |             |           |                                |
|                 |              |             | 16            |                                                                                              |      |             |           |                                |
|                 |              |             | 18            |                                                                                              |      |             |           |                                |

|                                                                                                |                                                            |     |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|
| Signature:  | Firm: CLE<br>1382 W. 9th St., Ste. 400 Cleveland, OH 44113 | Fax |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|

Checked By: KAH

SOIL BORING LOG WITH PHOTO - ODOT - CUY 77\_GINT LOGS\_RSP.GPJ 301525.1000.0000 2/2/23



## SOIL BORING LOG

BORING NO. SB-05

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|                                                                               |  |                                   |  |                                                          |  |                                                                                               |  |                               |  |                                  |  |
|-------------------------------------------------------------------------------|--|-----------------------------------|--|----------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|--|-------------------------------|--|----------------------------------|--|
| Facility/Project Name:<br>CUY 77-11.21 I-77 Corridor RMR Phase II (PID105743) |  | Date Drilling Started:<br>1/10/23 |  | Date Drilling Completed:<br>1/10/23                      |  | Project Number:<br>301525.1000.0000                                                           |  |                               |  |                                  |  |
| Drilling Firm:<br>AST                                                         |  | Drilling Method:<br>Geoprobe      |  | Surface Elev. (ft)<br>---                                |  | TOC Elevation (ft)<br>---                                                                     |  | Total Depth (ft bgs)<br>15.0  |  | Borehole Dia. (in)<br>2.5        |  |
| Boring Location:<br>RM-062                                                    |  |                                   |  | Personnel<br>Logged By - K. Henry<br>Driller - B. Gasner |  |                                                                                               |  | Drilling Equipment:<br>7822DT |  |                                  |  |
| Civil Town/City/or Village:<br>Cleveland                                      |  | County:<br>Cuyahoga               |  | State:<br>Ohio                                           |  | Water Level Observations:<br>While Drilling:      Date/Time<br>After Drilling:      Date/Time |  |                               |  | Depth (ft bgs)<br>Depth (ft bgs) |  |

| SAMPLE | NUMBER AND TYPE | RECOVERY (%) | BLOW COUNTS | DEPTH IN FEET | LITHOLOGIC DESCRIPTION                                                     | USCS | GRAPHIC LOG | PID (PPM) | COMMENTS |
|--------|-----------------|--------------|-------------|---------------|----------------------------------------------------------------------------|------|-------------|-----------|----------|
|        |                 |              |             |               |                                                                            |      |             |           |          |
| 1      | GP              | 40           |             | 2             | Asphalt gravel slag fill                                                   |      |             | 0.2       |          |
|        |                 |              |             | 4             |                                                                            |      |             | 0.2       |          |
| 2      | GP              | 50           |             | 6             | Loose, brown, silt with medium grained sand fill, moist, no odor, (fill)   |      |             | 0.1       |          |
|        |                 |              |             | 8             | Loose, dark brown, silt, moist, soft, no odor, (fill)                      |      |             | 0.1       |          |
| 3      | GP              | 52.5         |             | 10            | Loose, brown, silt with medium grained sand with some clay, moist, no odor |      |             | 0.1       |          |
|        |                 |              |             | 12            |                                                                            |      |             | 0.1       |          |
|        |                 |              |             | 12            | End of Boring - 12ft bgs                                                   |      |             |           |          |
|        |                 |              |             | 14            |                                                                            |      |             |           |          |
|        |                 |              |             | 16            |                                                                            |      |             |           |          |
|        |                 |              |             | 18            |                                                                            |      |             |           |          |

SOIL BORING LOG WITH PHOTO - ODOT - CUY 77\_GINT LOGS\_RSP.GPJ 301525.1000.0000 2/2/23

|                 |                                                            |     |
|-----------------|------------------------------------------------------------|-----|
| Signature:      | Firm: CLE<br>1382 W. 9th St., Ste. 400 Cleveland, OH 44113 | Fax |
| Checked By: KAH |                                                            |     |





# SOIL BORING LOG

**BORING NO. SB-06**

Page 1 of 1

|                                                                               |  |                                   |  |                                                          |  |                                                                                               |  |                               |  |                                  |  |
|-------------------------------------------------------------------------------|--|-----------------------------------|--|----------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|--|-------------------------------|--|----------------------------------|--|
| Facility/Project Name:<br>CUY 77-11.21 I-77 Corridor RMR Phase II (PID105743) |  | Date Drilling Started:<br>1/10/23 |  | Date Drilling Completed:<br>1/10/23                      |  | Project Number:<br>301525.1000.0000                                                           |  |                               |  |                                  |  |
| Drilling Firm:<br>AST                                                         |  | Drilling Method:<br>Geoprobe      |  | Surface Elev. (ft)<br>---                                |  | TOC Elevation (ft)<br>---                                                                     |  | Total Depth (ft bgs)<br>15.0  |  | Borehole Dia. (in)<br>2.5        |  |
| Boring Location:<br>RM-062                                                    |  |                                   |  | Personnel<br>Logged By - K. Henry<br>Driller - B. Gasner |  |                                                                                               |  | Drilling Equipment:<br>7822DT |  |                                  |  |
| Civil Town/City/or Village:<br>Cleveland                                      |  | County:<br>Cuyahoga               |  | State:<br>Ohio                                           |  | Water Level Observations:<br>While Drilling:      Date/Time<br>After Drilling:      Date/Time |  |                               |  | Depth (ft bgs)<br>Depth (ft bgs) |  |

| SAMPLE          |              | BLOW COUNTS | DEPTH IN FEET | LITHOLOGIC DESCRIPTION                                                                                 | USCS | GRAPHIC LOG | PID (PPM) | COMMENTS                     |
|-----------------|--------------|-------------|---------------|--------------------------------------------------------------------------------------------------------|------|-------------|-----------|------------------------------|
| NUMBER AND TYPE | RECOVERY (%) |             |               |                                                                                                        |      |             |           |                              |
| 1 GP            | 45.5         |             | 0             | Soft to medium dense, dark brown, silt with fine grained sand and asphalt fill, moist, no odor, (fill) |      |             | 0.2       | Sample Collected 1205 (0-2') |
|                 |              |             | 2             | End of Boring - 2ft bgs (refusal - possibly metallic)                                                  |      |             |           |                              |
|                 |              |             | 4             |                                                                                                        |      |             |           |                              |
|                 |              |             | 6             |                                                                                                        |      |             |           |                              |
|                 |              |             | 8             |                                                                                                        |      |             |           |                              |
|                 |              |             | 10            |                                                                                                        |      |             |           |                              |
|                 |              |             | 12            |                                                                                                        |      |             |           |                              |
|                 |              |             | 14            |                                                                                                        |      |             |           |                              |
|                 |              |             | 16            |                                                                                                        |      |             |           |                              |
|                 |              |             | 18            |                                                                                                        |      |             |           |                              |

|            |                                                            |     |
|------------|------------------------------------------------------------|-----|
| Signature: | Firm: CLE<br>1382 W. 9th St., Ste. 400 Cleveland, OH 44113 | Fax |
|------------|------------------------------------------------------------|-----|

Checked By: KAH

SOIL BORING LOG WITH PHOTO - ODOT - CUY 77\_GINT LOGS\_RSP.GPJ 301525.1000.0000 2/2/23



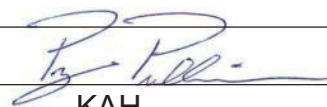
## SOIL BORING LOG

BORING NO. SB-07

Page 1 of 1

|                                                                               |  |                                   |  |                                                          |  |                                                                                               |  |                               |  |                                  |  |
|-------------------------------------------------------------------------------|--|-----------------------------------|--|----------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|--|-------------------------------|--|----------------------------------|--|
| Facility/Project Name:<br>CUY 77-11.21 I-77 Corridor RMR Phase II (PID105743) |  | Date Drilling Started:<br>1/10/23 |  | Date Drilling Completed:<br>1/10/23                      |  | Project Number:<br>301525.1000.0000                                                           |  |                               |  |                                  |  |
| Drilling Firm:<br>AST                                                         |  | Drilling Method:<br>Geoprobe      |  | Surface Elev. (ft)<br>---                                |  | TOC Elevation (ft)<br>---                                                                     |  | Total Depth (ft bgs)<br>15.0  |  | Borehole Dia. (in)<br>2.5        |  |
| Boring Location:<br>RM-062                                                    |  |                                   |  | Personnel<br>Logged By - K. Henry<br>Driller - B. Gasner |  |                                                                                               |  | Drilling Equipment:<br>7822DT |  |                                  |  |
| Civil Town/City/or Village:<br>Cleveland                                      |  | County:<br>Cuyahoga               |  | State:<br>Ohio                                           |  | Water Level Observations:<br>While Drilling:      Date/Time<br>After Drilling:      Date/Time |  |                               |  | Depth (ft bgs)<br>Depth (ft bgs) |  |

| SAMPLE          |              | BLOW COUNTS | DEPTH IN FEET | LITHOLOGIC DESCRIPTION                                                                    | USCS | GRAPHIC LOG | PID (PPM) | COMMENTS                       |
|-----------------|--------------|-------------|---------------|-------------------------------------------------------------------------------------------|------|-------------|-----------|--------------------------------|
| NUMBER AND TYPE | RECOVERY (%) |             |               |                                                                                           |      |             |           |                                |
| 1 GP            | 47.5         |             | 2             | Soft, brown to red, silt and clay with medium grained sand fill, moist, no odor           |      |             | 0.1       |                                |
|                 |              |             | 4             | Black, asphalt sand                                                                       |      |             | 0.0       |                                |
| 2 GP            | 45           |             | 6             | Medium dense, light brown, silt with clay and medium grained sand, moist, no odor, (fill) |      |             | 0.0       | Sample Collected @ 1135 (3-5') |
|                 |              |             | 8             | with little sand                                                                          |      |             | 0.0       |                                |
| 3 GP            | 45           |             | 10            |                                                                                           |      |             | 0.0       |                                |
|                 |              |             | 12            | End of Boring - 12ft bgs                                                                  |      |             | 0.0       |                                |
|                 |              |             | 14            |                                                                                           |      |             |           |                                |
|                 |              |             | 16            |                                                                                           |      |             |           |                                |
|                 |              |             | 18            |                                                                                           |      |             |           |                                |

|                                                                                                |                                                            |     |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|
| Signature:  | Firm: CLE<br>1382 W. 9th St., Ste. 400 Cleveland, OH 44113 | Fax |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|

Checked By: KAH

SOIL BORING LOG WITH PHOTO - ODOT - CUY 77\_GINT LOGS\_RSP.GPJ 301525.1000.0000 2/2/23



## SOIL BORING LOG

BORING NO. SB-08

Page 1 of 1

|                                                                               |  |                                   |  |                                                          |  |                                                                                               |  |                               |  |                                  |  |
|-------------------------------------------------------------------------------|--|-----------------------------------|--|----------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|--|-------------------------------|--|----------------------------------|--|
| Facility/Project Name:<br>CUY 77-11.21 I-77 Corridor RMR Phase II (PID105743) |  | Date Drilling Started:<br>1/10/23 |  | Date Drilling Completed:<br>1/10/23                      |  | Project Number:<br>301525.1000.0000                                                           |  |                               |  |                                  |  |
| Drilling Firm:<br>AST                                                         |  | Drilling Method:<br>Geoprobe      |  | Surface Elev. (ft)<br>---                                |  | TOC Elevation (ft)<br>---                                                                     |  | Total Depth (ft bgs)<br>15.0  |  | Borehole Dia. (in)<br>2.5        |  |
| Boring Location:<br>RM-062                                                    |  |                                   |  | Personnel<br>Logged By - K. Henry<br>Driller - B. Gasner |  |                                                                                               |  | Drilling Equipment:<br>7822DT |  |                                  |  |
| Civil Town/City/or Village:<br>Cleveland                                      |  | County:<br>Cuyahoga               |  | State:<br>Ohio                                           |  | Water Level Observations:<br>While Drilling:      Date/Time<br>After Drilling:      Date/Time |  |                               |  | Depth (ft bgs)<br>Depth (ft bgs) |  |

| SAMPLE          |              | BLOW COUNTS | DEPTH IN FEET | LITHOLOGIC DESCRIPTION                                               | USCS | GRAPHIC LOG | PID (PPM) | COMMENTS                        |
|-----------------|--------------|-------------|---------------|----------------------------------------------------------------------|------|-------------|-----------|---------------------------------|
| NUMBER AND TYPE | RECOVERY (%) |             |               |                                                                      |      |             |           |                                 |
| 1 GP            | 0.25         |             | 2             | Loose, light brown, silt with fine grained sand fill, moist, no odor |      |             | 0.0       |                                 |
|                 |              |             | 4             | slag and organic material                                            |      |             | 0.0       |                                 |
| 2 GP            | 22.5         |             | 6             |                                                                      |      |             | 0.0       |                                 |
|                 |              |             | 8             |                                                                      |      |             | 0.0       |                                 |
| 3 GP            | 82.5         |             | 10            | Medium stiff, greyish brown, clay with silt, moist, no odor          |      |             | 0.0       | Sample Collected @ 1105 (8-10') |
|                 |              |             | 12            | End of Boring - 12ft bgs                                             |      |             | 0.1       |                                 |
|                 |              |             | 14            |                                                                      |      |             |           |                                 |
|                 |              |             | 16            |                                                                      |      |             |           |                                 |
|                 |              |             | 18            |                                                                      |      |             |           |                                 |

|                                                                                                |                                                            |     |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|
| Signature:  | Firm: CLE<br>1382 W. 9th St., Ste. 400 Cleveland, OH 44113 | Fax |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|

Checked By: KAH

SOIL BORING LOG WITH PHOTO - ODOT - CUY 77\_GINT LOGS\_RSP.GPJ 301525.1000.0000 2/2/23



## Appendix C

### Investigation Documentation

## Photograph Log

|                                                                    |                          |                                                                                    |                                    |
|--------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------|------------------------------------|
| <b>Client Name:</b><br>Ohio Department of Transportation<br>(ODOT) |                          | <b>Site Location:</b><br>CUY-77-11.21<br>PID 105743                                | <b>Project No.:</b><br>301525.1000 |
| <b>Photo No.</b><br>1                                              | <b>Date</b><br>1/10/2023 |  |                                    |
| <b>Description:</b><br>View of SB-01 (RM-023), facing northwest.   |                          |                                                                                    |                                    |

|                                                                  |                          |                                                                                      |  |
|------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------|--|
| <b>Photo No.</b><br>2                                            | <b>Date</b><br>1/10/2023 |  |  |
| <b>Description:</b><br>View of SB-02 (RM-023), facing northwest. |                          |                                                                                      |  |

## Photograph Log

|                                                                    |                          |                                                                                    |                                    |
|--------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------|------------------------------------|
| <b>Client Name:</b><br>Ohio Department of Transportation<br>(ODOT) |                          | <b>Site Location:</b><br>CUY-77-11.21<br>PID 105743                                | <b>Project No.:</b><br>301525.1000 |
| <b>Photo No.</b><br>3                                              | <b>Date</b><br>1/10/2023 |  |                                    |
| <b>Description:</b><br>View of SB-03 (RM-025), facing northeast.   |                          |                                                                                    |                                    |

|                                                              |                          |                                                                                      |  |
|--------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------|--|
| <b>Photo No.</b><br>4                                        | <b>Date</b><br>1/10/2023 |  |  |
| <b>Description:</b><br>View of SB-04 (RM-025), facing north. |                          |                                                                                      |  |



## Photograph Log

|                                                                    |                          |                                                                                    |                                    |
|--------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------|------------------------------------|
| <b>Client Name:</b><br>Ohio Department of Transportation<br>(ODOT) |                          | <b>Site Location:</b><br>CUY-77-11.21<br>PID 105743                                | <b>Project No.:</b><br>301525.1000 |
| <b>Photo No.</b><br>5                                              | <b>Date</b><br>1/10/2023 |  |                                    |
| <b>Description:</b><br>View of SB-05 (RM-062), facing southeast.   |                          |                                                                                    |                                    |

|                                                              |                          |                                                                                      |  |
|--------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------|--|
| <b>Photo No.</b><br>6                                        | <b>Date</b><br>1/10/2023 |  |  |
| <b>Description:</b><br>View of SB-06 (RM-062), facing south. |                          |                                                                                      |  |

## Photograph Log

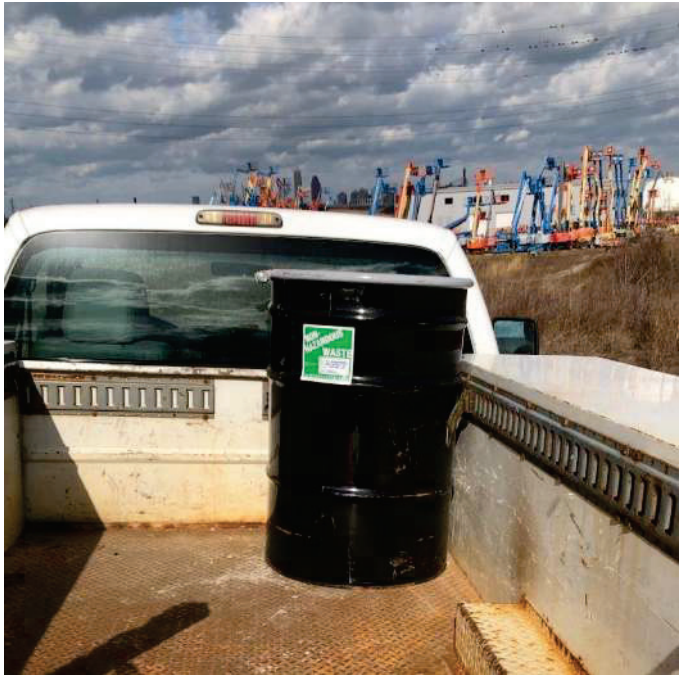
|                                                                    |                          |                                                                                    |                                    |
|--------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------|------------------------------------|
| <b>Client Name:</b><br>Ohio Department of Transportation<br>(ODOT) |                          | <b>Site Location:</b><br>CUY-77-11.21<br>PID 105743                                | <b>Project No.:</b><br>301525.1000 |
| <b>Photo No.</b><br>7                                              | <b>Date</b><br>1/10/2023 |  |                                    |
| <b>Description:</b><br>View of SB-07 (RM-062), facing south.       |                          |                                                                                    |                                    |

|                                                              |                          |                                                                                      |  |
|--------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------|--|
| <b>Photo No.</b><br>8                                        | <b>Date</b><br>1/10/2023 |  |  |
| <b>Description:</b><br>View of SB-08 (RM-062), facing south. |                          |                                                                                      |  |



## Photograph Log

|                                                                                               |                          |                                                                                    |                                    |
|-----------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------|------------------------------------|
| <b>Client Name:</b><br>Ohio Department of Transportation<br>(ODOT)                            |                          | <b>Site Location:</b><br>CUY-77-11.21<br>PID 105743                                | <b>Project No.:</b><br>301525.1000 |
| <b>Photo No.</b><br>9                                                                         | <b>Date</b><br>1/10/2023 |  |                                    |
| <b>Description:</b><br>Location of 55-gallon drum with soil cutting near RM-025, facing east. |                          |                                                                                    |                                    |

|                                                                                                                        |                          |                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------|--|
| <b>Photo No.</b><br>10                                                                                                 | <b>Date</b><br>2/15/2023 |  |  |
| <b>Description:</b><br>55-gallon drum picked up by Chemviron Midwest Inc. Photo courtesy of Joel Steiner of Chemviron. |                          |                                                                                      |  |



Summary Table

| Parameter                             | Residential Soil Screening Levels <sup>1</sup> | Commercial and Industrial Soil Screening Levels <sup>2</sup> | Concentration  |             |             |             |             |             |             |             |
|---------------------------------------|------------------------------------------------|--------------------------------------------------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                       |                                                |                                                              | Boring ID Date | SB-01-08-10 | SB-02-00-02 | SB-01-08-10 | SB-04-02-04 | SB-05-07-09 | SB-06-00-02 | SB-07-03-05 |
| 1/10/2023                             |                                                |                                                              |                |             |             |             |             |             |             |             |
| VOCs                                  |                                                |                                                              |                |             |             |             |             |             |             |             |
| Dichlorodifluoromethane               | 850                                            | 850                                                          | 0.0083 U       | 0.0093 U    | 0.01 U      | 0.0092 U    | 0.0072 U    | 0.0097 U    | 0.0088 U    | 0.0087 U    |
| Chloromethane                         | 280                                            | 1,200                                                        | 0.0033 U       | 0.0037 U    | 0.004 U     | 0.0037 U    | 0.0029 U    | 0.0039 U    | 0.0035 U    | 0.0035 U    |
| Vinyl chloride                        | 1.3                                            | 49                                                           | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| Bromomethane                          | 17                                             | 76                                                           | 0.0017 U       | 0.0019 U    | 0.0023 J+   | 0.0018 U    | 0.0014 U    | 0.0019 U    | 0.0018 U    | 0.0017 U    |
| Chloroethane                          | 2,100                                          | 2,100                                                        | 0.0017 U       | 0.0019 U    | 0.002 U     | 0.0018 U    | 0.0014 U    | 0.0019 U    | 0.0018 U    | 0.0017 U    |
| Trichlorofluoromethane                | 1,200                                          | 1,200                                                        | 0.0033 U       | 0.0037 U    | 0.004 U     | 0.0037 U    | 0.0029 U    | 0.0039 U    | 0.0035 U    | 0.0035 U    |
| 1,1-Dichloroethene                    | 360                                            | 1,200                                                        | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| Carbon disulfide                      | 740                                            | 740                                                          | 0.0083 U J-    | 0.0093 U J- | 0.01 U J-   | 0.0092 U J- | 0.0072 U J- | 0.0097 U J- | 0.0088 U J- | 0.0087 U J- |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | --                                             | --                                                           | 0.0033 U       | 0.0037 U    | 0.004 U     | 0.0037 U    | 0.0029 U    | 0.0039 U    | 0.0035 U    | 0.0035 U    |
| Methylene chloride                    | 740                                            | 3,300                                                        | 0.0042 U       | 0.0047 U    | 0.005 U     | 0.0046 U    | 0.0036 U    | 0.0049 U    | 0.0044 U    | 0.0044 U    |
| Acetone                               | 110,000                                        | 110,000                                                      | 0.021 U        | 0.023 U     | 0.025 U     | 0.023 U     | 0.018 U     | 0.024 U     | 0.022 U     | 0.022 U     |
| trans-1,2-Dichloroethene              | 1,900                                          | 1,900                                                        | 0.0012 U       | 0.0014 U    | 0.0015 U    | 0.0014 U    | 0.0011 U    | 0.0015 U    | 0.0013 U    | 0.0013 U    |
| Methyl Acetate                        | --                                             | --                                                           | 0.0033 U       | 0.0037 U    | 0.004 U     | 0.0037 U    | 0.0029 U    | 0.0039 U    | 0.0035 U    | 0.0035 U    |
| Methyl tert butyl ether               | 1,100                                          | 5,400                                                        | 0.0017 U       | 0.0019 U    | 0.002 U     | 0.0018 U    | 0.0014 U    | 0.0019 U    | 0.0018 U    | 0.0017 U    |
| 1,1-Dichloroethane                    | 89                                             | 390                                                          | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| cis-1,2-Dichloroethene                | 310                                            | 2,400                                                        | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| 1,2-Dichloroethene, Total             | --                                             | --                                                           | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| Cyclohexane                           | 120                                            | 120                                                          | 0.0083 U       | 0.0093 U    | 0.01 U      | 0.0092 U    | 0.0072 U    | 0.0096 J    | 0.0088 U    | 0.0087 U    |
| Bromochloromethane                    | --                                             | --                                                           | 0.0017 U       | 0.0019 U    | 0.002 U     | 0.0018 U    | 0.0014 U    | 0.0019 U    | 0.0018 U    | 0.0017 U    |
| Chloroform                            | 7.9                                            | 35                                                           | 0.0012 U       | 0.0014 U    | 0.0015 U    | 0.0014 U    | 0.0011 U    | 0.0015 U    | 0.0013 U    | 0.0013 U    |
| Carbon tetrachloride                  | 16                                             | 74                                                           | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| 1,1,1-Trichloroethane                 | 640                                            | 640                                                          | 0.00042 U      | 0.00047 U   | 0.0005 U    | 0.00046 U   | 0.00036 U   | 0.00049 U   | 0.00044 U   | 0.00044 U   |
| 2-Butanone                            | 28,000                                         | 28,000                                                       | 0.0083 U       | 0.0093 U    | 0.01 U      | 0.0092 U    | 0.0072 U    | 0.0097 U    | 0.0088 U    | 0.0087 U    |
| Benzene                               | 28                                             | 130                                                          | 0.00042 U      | 0.00047 U   | 0.0005 U    | 0.00046 U   | 0.00036 U   | 0.00049 U   | 0.00044 U   | 0.00044 U   |
| 1,2-Dichloroethane                    | 11                                             | 52                                                           | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| Methyl cyclohexane                    | --                                             | --                                                           | 0.0033 U       | 0.00059 J   | 0.004 U     | 0.0037 U    | 0.0029 U    | 0.00077 J   | 0.0035 U    | 0.0035 U    |
| Trichloroethene                       | 10                                             | 48                                                           | 0.00042 U      | 0.00047 U   | 0.0005 U    | 0.00046 U   | 0.00036 U   | 0.00049 U   | 0.00044 U   | 0.00044 U   |
| 1,2-Dichloropropane                   | 39                                             | 170                                                          | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| Bromodichloromethane                  | 7.3                                            | 33                                                           | 0.00042 U      | 0.00047 U   | 0.0005 U    | 0.00046 U   | 0.00036 U   | 0.00049 U   | 0.00044 U   | 0.00044 U   |
| 1,4-Dioxane                           | 110                                            | 850                                                          | 0.067 U        | 0.075 U     | 0.08 U      | 0.074 U     | 0.057 U     | 0.078 U     | 0.07 U      | 0.07 U      |
| cis-1,3-Dichloropropene               | --                                             | --                                                           | 0.00042 U      | 0.00047 U   | 0.0005 U    | 0.00046 U   | 0.00036 U   | 0.00049 U   | 0.00044 U   | 0.00044 U   |
| Toluene                               | 820                                            | 820                                                          | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| 4-Methyl-2-pentanone                  | 3,400                                          | 3,400                                                        | 0.0083 U       | 0.0093 U    | 0.01 U      | 0.0092 U    | 0.0072 U    | 0.0097 U    | 0.0088 U    | 0.0087 U    |
| Tetrachloroethene                     | 170                                            | 170                                                          | 0.00042 U      | 0.00047 U   | 0.0005 U    | 0.00046 U   | 0.00036 U   | 0.00049 U   | 0.00044 U   | 0.00044 U   |
| trans-1,3-Dichloropropene             | --                                             | --                                                           | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| 1,3-Dichloropropene, Total            | 43                                             | 230                                                          | 0.00042 U      | 0.00047 U   | 0.0005 U    | 0.00046 U   | 0.00036 U   | 0.00049 U   | 0.00044 U   | 0.00044 U   |
| 1,1,2-Trichloroethane                 | 28                                             | 130                                                          | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| Dibromochloromethane                  | 130                                            | 800                                                          | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| 1,2-Dibromoethane                     | 0.89                                           | 4.2                                                          | 0.00042 U      | 0.00047 U   | 0.0005 U    | 0.00046 U   | 0.00036 U   | 0.00049 U   | 0.00044 U   | 0.00044 U   |
| 2-Hexanone                            | --                                             | --                                                           | 0.0083 U       | 0.0093 U    | 0.01 U      | 0.0092 U    | 0.0072 U    | 0.0097 U    | 0.0088 U    | 0.0087 U    |
| Chlorobenzene                         | 660                                            | 760                                                          | 0.00042 U      | 0.00047 U   | 0.0005 U    | 0.00046 U   | 0.00036 U   | 0.00049 U   | 0.00044 U   | 0.00044 U   |
| Ethylbenzene                          | 140                                            | 480                                                          | 0.00083 U      | 0.00041 J   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| p,m-Xylene                            | --                                             | --                                                           | 0.0017 U       | 0.0019 U    | 0.002 U     | 0.0018 U    | 0.0014 U    | 0.0019 U    | 0.0018 U    | 0.0017 U    |
| o-Xylene                              | --                                             | --                                                           | 0.00083 U      | 0.00027 J   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| Xylenes, Total                        | 260                                            | 260                                                          | 0.00083 U      | 0.00027 J   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| Styrene                               | 870                                            | 870                                                          | 0.00083 U      | 0.00093 U   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| Bromoform                             | 460                                            | 910                                                          | 0.0033 U       | 0.0037 U    | 0.004 U     | 0.0037 U    | 0.0029 U    | 0.0039 U    | 0.0035 U    | 0.0035 U    |
| Isopropylbenzene                      | 270                                            | 270                                                          | 0.00083 U      | 0.00012 J   | 0.001 U     | 0.00092 U   | 0.00072 U   | 0.00097 U   | 0.00088 U   | 0.00087 U   |
| 1,1,2,2-Tetrachloroethane             | 15                                             | 71                                                           | 0.00042 U      | 0.00047 U   | 0.0005 U    | 0.00046 U   | 0.00036 U   | 0.00049 U   | 0.00044 U   | 0.00044 U   |
| 1,3,5-Trimethylbenzene                | 180                                            | 180                                                          | 0.0017 U       | 0.0019 U    | 0.002 U     | 0.0018 U    | 0.0014 U    | 0.0019 U    | 0.0018 U    | 0.0017 U    |
| 1,2,4-Trimethylbenzene                | 220                                            | 220                                                          | 0.0017 U       | 0.0019 U    | 0.002 U     | 0.0018 U    | 0.0014 U    | 0.0019 U    | 0.0018 U    | 0.0017 U    |
| 1,3-Dichlorobenzene                   | --                                             | --                                                           | 0.0017 U       | 0.0019 U    | 0.002 U     | 0.0018 U    | 0.0014 U    | 0.0019 U    | 0.0018 U    | 0.0017 U    |
| 1,4-Dichlorobenzene                   | 65                                             | 290                                                          | 0.0017 U       | 0.0019 U    | 0.002 U     | 0.0018 U    | 0.0014 U    | 0.0019 U    | 0.0018 U    | 0.0017 U    |
| 1,2-Dichlorobenzene                   | 380                                            | 380                                                          | 0.0017 U       | 0.0019 U    | 0.002 U     | 0.0018 U    | 0.0014 U    | 0.0019 U    | 0.0018 U    | 0.0017 U    |
| 1,2-Dibromo-3-chloropropane           | 0.37                                           | 1.6                                                          | 0.0025 U       | 0.0028 U    | 0.003 U     | 0.0028 U    | 0.0021 U    | 0.0029 U    | 0.0026 U    | 0.0026 U    |
| 1,2,4-Trichlorobenzene                | 140                                            | 400                                                          | 0.0017 U       | 0.0019 U    | 0.002 U     | 0.0018 U    | 0.0014 U    | 0.0019 U    | 0.0018 U    | 0.0017 U    |
| Naphthalene                           | 96                                             | 420                                                          | 0.0033 U       | 0.0037 U    | 0.004 U     | 0.0037 U    | 0.0029 U    | 0.0039 U    | 0.0035 U    | 0.0035 U    |
| 1,2,3-Trichlorobenzene                | --                                             | --                                                           | 0.0017 U       | 0.0019 U    | 0.002 U     | 0.0018 U    | 0.0014 U    | 0.0019 U    | 0.0018 U    | 0.0017 U    |
| Semi-VOCs                             |                                                |                                                              |                |             |             |             |             |             |             |             |
| Benzaldehyde                          |                                                |                                                              | 0.24 U         | 0.25 U      | 0.25 U      | 0.26 U      | 0.25 U      | 0.25 U      | 0.26 U      | 0.27 U      |
| Phenol                                | 38,000                                         | 760,000                                                      | 0.18 U         | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| Bis(2-chloroethyl)ether               | 5.3                                            | 30                                                           | 0.16 U         | 0.17 U      | 0.17 U      | 0.18 U      | 0.17 U      | 0.17 U      | 0.18 U      | 0.19 U      |
| 2-Chlorophenol                        | 780                                            | 23,000                                                       | 0.18 U         | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| 2-Methylphenol                        | 6,300                                          | 130,000                                                      | 0.18 U         | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| Bis(2-chloroisopropyl)ether           | 1,000                                          | 1,000                                                        | 0.22 U         | 0.23 U      | 0.23 U      | 0.24 U      | 0.23 U      | 0.23 U      | 0.24 U      | 0.25 U      |
| Acetophenone                          | 2,500                                          | 2,500                                                        | 0.18 U         | 0.086 J     | 0.19 U      | 0.2 U       | 0.19 U      | 0.14 J      | 0.2 U       | 0.21 U      |
| n-Nitrosodi-n-propylamine             | 1.6                                            | 10                                                           | 0.18 U         | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| 3-Methylphenol/4-Methylphenol         | 6,300                                          | 130,000                                                      | 0.28 U         | 0.27 U      | 0.27 U      | 0.28 U      | 0.27 U      | 0.28 U      | 0.28 U      | 0.3 U       |
| Hexachloroethane                      | 45                                             | 210                                                          | 0.14 U         | 0.15 U      | 0.15 U      | 0.16 U      | 0.15 U      | 0.15 U      | 0.16 U      | 0.16 U      |
| Nitrobenzene                          | 130                                            | 560                                                          | 0.16 U         | 0.17 U      | 0.17 U      | 0.18 U      | 0.17 U      | 0.17 U      | 0.18 U      | 0.19 U      |
| Isophorone                            | 11,000                                         | 75,000                                                       | 0.16 U         | 0.17 U      | 0.17 U      | 0.18 U      | 0.17 U      | 0.17 U      | 0.18 U      | 0.19 U      |
| 2-Nitrophenol                         | --                                             | --                                                           | 0.39 U         | 0.41 U      | 0.41 U      | 0.42 U      | 0.41 U      | 0.42 U      | 0.42 U      | 0.45 U      |
| 2,4-Dimethylphenol                    | 2,500                                          | 51,000                                                       | 0.18 U         | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| Bis(2-chloroethoxy)methane            | 380                                            | 7,600                                                        | 0.2 U          | 0.2 U       | 0.2 U       | 0.21 U      | 0.2 U       | 0.21 U      | 0.21 U      | 0.22 U      |
| 2,4-Dichlorophenol                    | 380                                            | 7,600                                                        | 0.16 U         | 0.17 U      | 0.17 U      | 0.18 U      | 0.17 U      | 0.17 U      | 0.18 U      | 0.19 U      |
| Naphthalene                           | 96                                             | 420                                                          | 0.036 U        | 2           | 0.11        | 0.039 U     | 0.038 U     | 0.96        | 0.039 U     | 0.041 U     |
| 4-Chloroaniline                       | 54                                             | 350                                                          | 0.18 U         | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| Hexachlorobutadiene                   | 17                                             | 17                                                           | 0.18 U         | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| Caprolactam                           | --                                             | --                                                           | 0.18 U         | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| p-Chloro-m-cresol                     | 13,000                                         | 250,000                                                      | 0.18 U         | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| 2-Methylnaphthalene                   | 480                                            | 8,900                                                        | 0.22 U         | 1.9         | 0.13 J      | 0.24 U      | 0.034 J     | 1.4         | 0.24 U      | 0.25 U      |
| Hexachlorocyclopentadiene             | 4.4                                            | 16                                                           | 0.52 U         | 0.54 U      | 0.54 U      | 0.56 U      | 0.54 U      | 0.55 U      | 0.56 U      |             |

Summary Table

| Parameter                   | Residential Soil Screening Levels <sup>1</sup> | Commercial and Industrial Soil Screening Levels <sup>2</sup> | Concentration |             |             |             |             |             |             |             |
|-----------------------------|------------------------------------------------|--------------------------------------------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Boring ID<br>Date           |                                                |                                                              | SB-01-08-10   | SB-02-00-02 | SB-01-08-10 | SB-04-02-04 | SB-05-07-09 | SB-06-00-02 | SB-07-03-05 | SB-08-08-10 |
|                             |                                                |                                                              | 1/10/2023     |             |             |             |             |             |             |             |
| 2,3,4,6-Tetrachlorophenol   | 3,800                                          | 76,000                                                       | 0.18 U        | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| Diethyl phthalate           | 100,000                                        | 1,000,000                                                    | 0.18 U        | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| Fluorene                    | 4,800                                          | 89,000                                                       | 0.18 U        | 0.25        | 0.19 U      | 0.2 U       | 0.19 U      | 0.13 J      | 0.2 U       | 0.21 U      |
| 4-Chlorophenyl phenyl ether | --                                             | --                                                           | 0.18 U        | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| 4-Nitroaniline              | 510                                            | 3,500                                                        | 0.18 U        | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| 4,6-Dinitro-o-cresol        | 10                                             | 200                                                          | 0.47 U        | 0.49 U      | 0.49 U      | 0.51 U      | 0.49 U      | 0.5 U       | 0.51 U      | 0.54 U      |
| NDPA/DPA                    | 2,200                                          | 14,000                                                       | 0.14 U        | 0.15 U      | 0.15 U      | 0.16 U      | 0.15 U      | 0.15 U      | 0.16 U      | 0.16 U      |
| 4-Bromophenyl phenyl ether  | --                                             | --                                                           | 0.18 U        | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| Hexachlorobenzene           | 4.1                                            | 22                                                           | 0.11 U        | 0.11 U      | 0.11 U      | 0.12 U      | 0.11 U      | 0.12 U      | 0.12 U      | 0.12 U      |
| Pentachlorophenol           | 20                                             | 100                                                          | 0.14 U        | 0.15 U      | 0.15 U      | 0.16 U      | 0.15 U      | 0.15 U      | 0.16 U      | 0.16 U      |
| Atrazine                    | 47                                             | 310                                                          | 0.14 U        | 0.15 U      | 0.15 U      | 0.16 U      | 0.15 U      | 0.15 U      | 0.16 U      | 0.16 U      |
| Phenanthrene                | 36,000                                         | 670,000                                                      | 0.11 U        | 1.4         | 0.062 J     | 0.12 U      | 0.11 U      | 2.2         | 0.12 U      | 0.12 U      |
| Anthracene                  | 36,000                                         | 670,000                                                      | 0.11 U        | 0.16        | 0.11 U      | 0.12 U      | 0.11 U      | 0.37        | 0.12 U      | 0.12 U      |
| Carbazole                   | 540                                            | 3,500                                                        | 0.18 U        | 0.093 J     | 0.19 U      | 0.2 U       | 0.19 U      | 0.24        | 0.2 U       | 0.21 U      |
| Di-n-butylphthalate         | 13,000                                         | 250,000                                                      | 0.18 U        | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| Fluoranthene                | 4,800                                          | 89,000                                                       | 0.11 U        | 0.57        | 0.043 J     | 0.12 U      | 0.11 U      | 3.6         | 0.12 U      | 0.12 U      |
| Pyrene                      | 3,600                                          | 67,000                                                       | 0.11 U        | 0.81        | 0.043 J     | 0.12 U      | 0.11 U      | 3.3         | 0.12 U      | 0.12 U      |
| Butyl benzyl phthalate      | 5,700                                          | 37,000                                                       | 0.18 U        | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| 3,3'-Dichlorobenzidine      | 24                                             | 160                                                          | 0.18 U        | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| Benzo(a)anthracene          | 23                                             | 610                                                          | 0.11 U        | 0.36        | 0.035 J     | 0.12 U      | 0.11 U      | 2.2         | 0.12 U      | 0.12 U      |
| Chrysene                    | 2,300                                          | 62,000                                                       | 0.11 U        | 0.67        | 0.034 J     | 0.12 U      | 0.11 U      | 2.7         | 0.12 U      | 0.12 U      |
| Bis(2-ethylhexyl)phthalate  | 780                                            | 5,100                                                        | 0.18 U        | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.067 J     | 0.2 U       | 0.21 U      |
| Di-n-octylphthalate         | 1,300                                          | 25,000                                                       | 0.18 U        | 0.19 U      | 0.19 U      | 0.2 U       | 0.19 U      | 0.19 U      | 0.2 U       | 0.21 U      |
| Benzo(b)fluoranthene        | 23                                             | 620                                                          | 0.11 U        | 0.47        | 0.039 J     | 0.12 U      | 0.11 U      | 4.3         | 0.12 U      | 0.12 U      |
| Benzo(k)fluoranthene        | 230                                            | 6,200                                                        | 0.11 U        | 0.14        | 0.11 U      | 0.12 U      | 0.11 U      | 1.2         | 0.12 U      | 0.12 U      |
| Benzo(a)pyrene              | 2.3                                            | 62                                                           | 0.14 U        | 0.31        | 0.15 U      | 0.16 U      | 0.15 U      | 3.3         | 0.16 U      | 0.16 U      |
| Indeno(1,2,3-cd)pyrene      | 23                                             | 620                                                          | 0.14 U        | 0.22        | 0.15 U      | 0.16 U      | 0.15 U      | 2.4         | 0.16 U      | 0.16 U      |
| Dibenzo(a,h)anthracene      | 2.3                                            | 62                                                           | 0.11 U        | 0.068 J     | 0.11 U      | 0.12 U      | 0.11 U      | 0.49        | 0.12 U      | 0.12 U      |
| Benzo(ghi)perylene          | 3,600                                          | 67,000                                                       | 0.14 U        | 0.24        | 0.15 U      | 0.16 U      | 0.15 U      | 2.1         | 0.16 U      | 0.16 U      |
| <b>Metals</b>               |                                                |                                                              |               |             |             |             |             |             |             |             |
| Arsenic, Total              | 14                                             | 100                                                          | 8.16          | 10.7        | 9.66        | 13.2        | 11.3        | 15          | 16          | 9.72        |
| Barium, Total               | 30,000                                         | 760,000                                                      | 81            | 83.8        | 23.7        | 72.9        | 33.8        | 219         | 45.7        | 28.8        |
| Cadmium, Total              | 140                                            | 3,300                                                        | 0.238 J       | 1.73        | 0.27 J      | 0.434 J     | 0.339 J     | 0.58        | 0.622       | 0.309 J     |
| Chromium, Total             | --                                             | --                                                           | 4.91          | 307         | 5.66        | 14.8        | 10.5        | 13.9        | 11.8        | 7.63        |
| Lead, Total                 | 400                                            | 800                                                          | 8.92          | 27          | 8.25        | 13.9        | 28.1        | 185         | 20.6        | 10.7        |
| Mercury, Total              | 3.1                                            | 3.1                                                          | 0.078 U       | 0.079 U     | 0.082 U     | 0.081 U     | 0.079 U     | 0.064 J     | 0.076 U     | 0.087 U     |
| Selenium, Total             | 780                                            | 23,000                                                       | 0.152 J       | 1.01        | 0.178 J     | 0.943 U     | 0.243 J     | 0.937       | 0.219 J     | 0.165 J     |
| Silver, Total               | 780                                            | 23,000                                                       | 0.126 J       | 0.44 U      | 0.146 J     | 0.161 J     | 0.172 J     | 0.226       | 0.157 J     | 0.161 J     |
| <b>TPH</b>                  |                                                |                                                              |               |             |             |             |             |             |             |             |
| TPH (C6-C12)                | --                                             | --                                                           | 1.89 J        | 6.14 J      | 5.01 U      | 4.91 U      | 4.25 U      | 19.5        | 5.04 U      | 1.25 J      |
| TPH (C10-C20)               | --                                             | --                                                           | 17.7 J        | 275 J       | 6.69 J      | 45.8 J      | 36.8 J      | 85.7 J      | 25.9 J      | 38.2 J      |
| TPH (C20-C34)               | --                                             | --                                                           | 24.9          | 333         | 16.6 U      | 52.9        | 33          | 218         | 17.3 U      | 20.2        |

## Notes

Each COC unit is milligram per kilogram (mg/kg)

-- Not available

U - Not detected at the reported detection limit for the sample.

J - Estimated value less than reporting limit, but greater than the method detection limit

J+ - Estimated value, detected below the quantitation limit, but above the method detection limit

J+ - Estimated value, potential of positive bias

UJ- Estimated value below the method detection limit, potential of negative bias

Bold and Yellow - Ohio Voluntary Action Program (VAP) Generic Direct Contact Soil Standards - Residential Land Use Exceedance

<sup>1</sup> Ohio Voluntary Action Program (VAP) Generic Direct Contact Soil Standards - Residential Land Use Category Criteria per VAP Rules OAC 3745-300-08 effective October 17, 2019<sup>2</sup> Ohio Voluntary Action Program (VAP) Generic Direct Contact Soil Standards - Commercial/Industrial Land Use Category Criteria per VAP Rules OAC 3745-300-08 effective October 17, 2019

TPH - Total Petroleum Hydrocarbons

VOC - Volatile Organic Compounds

SVOC - Semi-volatile organic compounds



## ANALYTICAL REPORT

Lab Number: L2301501

Client: TRC Companies  
1382 West Ninth Street  
Suite 400  
Cleveland, OH 44113

ATTN: Keaton Henry

Phone: (216) 487-1527

Project Name: CUY-77-11.21 PID 10573

Project Number: 301525.1000

Report Date: 01/18/23

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-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).

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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:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2301501-01                | SB-08-08-10      | SOIL          | Not Specified              | 01/10/23 11:05                  | 01/11/23            |
| L2301501-02                | SB-07-03-05      | SOIL          | Not Specified              | 01/10/23 11:35                  | 01/11/23            |
| L2301501-03                | SB-06-00-02      | SOIL          | Not Specified              | 01/10/23 12:05                  | 01/11/23            |
| L2301501-04                | SB-05-07-09      | SOIL          | Not Specified              | 01/10/23 12:30                  | 01/11/23            |
| L2301501-05                | SB-04-02-04      | SOIL          | Not Specified              | 01/10/23 12:55                  | 01/11/23            |
| L2301501-06                | SB-03-08-10      | SOIL          | Not Specified              | 01/10/23 13:10                  | 01/11/23            |
| L2301501-07                | SB-02-00-02      | SOIL          | Not Specified              | 01/10/23 13:35                  | 01/11/23            |
| L2301501-08                | SB-01-08-10      | SOIL          | Not Specified              | 01/10/23 14:05                  | 01/11/23            |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

### Case Narrative

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

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

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

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

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

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

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**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

### Case Narrative (continued)

#### Report Submission

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

#### Sample Receipt

L2301501-01: The collection date and time on the chain of custody was 10-JAN-23 11:15; however, the collection date and time on the container label was 10-JAN-23 11:05. At the client's request, the collection date and time is reported as 10-JAN-23 11:05.

L2301501-04: The sample identified as "SB-05-05-07" on the chain of custody was identified as "SB-05-07-09" on the container label. At the client's request, the sample is reported as "SB-05-07-09".

#### Volatile Organics

L2301501-03: The sample was analyzed as a High Level Methanol based upon screen results. The sample was then analyzed as a Low Level in order to achieve lower reporting limits. The results of low analysis are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies.

L2301501-06: The internal standard (IS) response(s) for fluorobenzene (18%), chlorobenzene-d5 (20%), and 1,4-dichlorobenzene-d4 (18%) and the surrogate recoveries for 1,2-dichloroethane-d4 (164%) and dibromofluoromethane (143%) were outside the acceptance criteria; however, re-analysis achieved the following results: fluorobenzene (13%), chlorobenzene-d5 (14%), 1,4-dichlorobenzene-d4 (13%), 1,2-Dichloroethane-d4 (168%), and dibromofluoromethane (147%). The results of original analysis are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

#### Diesel Range & Oil Range Organics

The WG1732740-3 Laboratory Duplicate RPD for TPH (C10-C20) (74%), performed on L2301501-08, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**Case Narrative (continued)**

native sample.

**Total Metals**

L2301501-07: The sample has an elevated detection limit for silver due to the dilution required by matrix interferences encountered during analysis.

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 O'Neill

Title: Technical Director/Representative

Date: 01/18/23

# ORGANICS

# **VOLATILES**



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-01  
**Client ID:** SB-08-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 11:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260D  
**Analytical Date:** 01/13/23 13:17  
**Analyst:** LAC  
**Percent Solids:** 80%

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Dichlorodifluoromethane                             | ND     |           | mg/kg | 0.0087  | 0.00080 | 1               |
| Chloromethane                                       | ND     |           | mg/kg | 0.0035  | 0.00082 | 1               |
| Vinyl chloride                                      | ND     |           | mg/kg | 0.00087 | 0.00029 | 1               |
| Bromomethane                                        | ND     |           | mg/kg | 0.0017  | 0.00051 | 1               |
| Chloroethane                                        | ND     |           | mg/kg | 0.0017  | 0.00040 | 1               |
| Trichlorofluoromethane                              | ND     |           | mg/kg | 0.0035  | 0.00061 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | mg/kg | 0.00087 | 0.00021 | 1               |
| Carbon disulfide                                    | ND     |           | mg/kg | 0.0087  | 0.0040  | 1               |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane               | ND     |           | mg/kg | 0.0035  | 0.00061 | 1               |
| Methylene chloride                                  | ND     |           | mg/kg | 0.0044  | 0.0020  | 1               |
| Acetone                                             | ND     |           | mg/kg | 0.022   | 0.0087  | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | mg/kg | 0.0013  | 0.00012 | 1               |
| Methyl Acetate                                      | ND     |           | mg/kg | 0.0035  | 0.00083 | 1               |
| Methyl tert butyl ether                             | ND     |           | mg/kg | 0.0017  | 0.00018 | 1               |
| 1,1-Dichloroethane                                  | ND     |           | mg/kg | 0.00087 | 0.00013 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | mg/kg | 0.00087 | 0.00015 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | mg/kg | 0.00087 | 0.00012 | 1               |
| Cyclohexane                                         | ND     |           | mg/kg | 0.0087  | 0.00048 | 1               |
| Bromochloromethane                                  | ND     |           | mg/kg | 0.0017  | 0.00018 | 1               |
| Chloroform                                          | ND     |           | mg/kg | 0.0013  | 0.00012 | 1               |
| Carbon tetrachloride                                | ND     |           | mg/kg | 0.00087 | 0.00020 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | mg/kg | 0.00044 | 0.00015 | 1               |
| 2-Butanone                                          | ND     |           | mg/kg | 0.0087  | 0.0019  | 1               |
| Benzene                                             | ND     |           | mg/kg | 0.00044 | 0.00014 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | mg/kg | 0.00087 | 0.00022 | 1               |
| Methyl cyclohexane                                  | ND     |           | mg/kg | 0.0035  | 0.00053 | 1               |
| Trichloroethene                                     | ND     |           | mg/kg | 0.00044 | 0.00012 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | mg/kg | 0.00087 | 0.00011 | 1               |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-01  
**Client ID:** SB-08-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 11:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Bromodichloromethane                                | ND     |           | mg/kg | 0.00044 | 0.00009 | 1               |
| 1,4-Dioxane                                         | ND     |           | mg/kg | 0.070   | 0.031   | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | mg/kg | 0.00044 | 0.00014 | 1               |
| Toluene                                             | ND     |           | mg/kg | 0.00087 | 0.00048 | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | mg/kg | 0.0087  | 0.0011  | 1               |
| Tetrachloroethene                                   | ND     |           | mg/kg | 0.00044 | 0.00017 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | mg/kg | 0.00087 | 0.00024 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | mg/kg | 0.00044 | 0.00014 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | mg/kg | 0.00087 | 0.00023 | 1               |
| Dibromochloromethane                                | ND     |           | mg/kg | 0.00087 | 0.00012 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | mg/kg | 0.00044 | 0.00026 | 1               |
| 2-Hexanone                                          | ND     |           | mg/kg | 0.0087  | 0.0010  | 1               |
| Chlorobenzene                                       | ND     |           | mg/kg | 0.00044 | 0.00011 | 1               |
| Ethylbenzene                                        | ND     |           | mg/kg | 0.00087 | 0.00012 | 1               |
| p/m-Xylene                                          | ND     |           | mg/kg | 0.0017  | 0.00049 | 1               |
| o-Xylene                                            | ND     |           | mg/kg | 0.00087 | 0.00025 | 1               |
| Xylenes, Total                                      | ND     |           | mg/kg | 0.00087 | 0.00025 | 1               |
| Styrene                                             | ND     |           | mg/kg | 0.00087 | 0.00017 | 1               |
| Bromoform                                           | ND     |           | mg/kg | 0.0035  | 0.00022 | 1               |
| Isopropylbenzene                                    | ND     |           | mg/kg | 0.00087 | 0.00009 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | mg/kg | 0.00044 | 0.00014 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | mg/kg | 0.0017  | 0.00017 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | mg/kg | 0.0017  | 0.00029 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0017  | 0.00013 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0017  | 0.00015 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0017  | 0.00012 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | mg/kg | 0.0026  | 0.00087 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | mg/kg | 0.0017  | 0.00024 | 1               |
| Naphthalene                                         | ND     |           | mg/kg | 0.0035  | 0.00057 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | mg/kg | 0.0017  | 0.00028 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 107        |           | 70-130              |
| Toluene-d8            | 97         |           | 70-130              |
| 4-Bromofluorobenzene  | 89         |           | 70-130              |
| Dibromofluoromethane  | 116        |           | 70-130              |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-02  
**Client ID:** SB-07-03-05  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 11:35  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260D  
**Analytical Date:** 01/13/23 13:44  
**Analyst:** LAC  
**Percent Solids:** 84%

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Dichlorodifluoromethane                             | ND     |           | mg/kg | 0.0088  | 0.00081 | 1               |
| Chloromethane                                       | ND     |           | mg/kg | 0.0035  | 0.00082 | 1               |
| Vinyl chloride                                      | ND     |           | mg/kg | 0.00088 | 0.00030 | 1               |
| Bromomethane                                        | ND     |           | mg/kg | 0.0018  | 0.00051 | 1               |
| Chloroethane                                        | ND     |           | mg/kg | 0.0018  | 0.00040 | 1               |
| Trichlorofluoromethane                              | ND     |           | mg/kg | 0.0035  | 0.00061 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | mg/kg | 0.00088 | 0.00021 | 1               |
| Carbon disulfide                                    | ND     |           | mg/kg | 0.0088  | 0.0040  | 1               |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane               | ND     |           | mg/kg | 0.0035  | 0.00061 | 1               |
| Methylene chloride                                  | ND     |           | mg/kg | 0.0044  | 0.0020  | 1               |
| Acetone                                             | ND     |           | mg/kg | 0.022   | 0.0088  | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | mg/kg | 0.0013  | 0.00012 | 1               |
| Methyl Acetate                                      | ND     |           | mg/kg | 0.0035  | 0.00084 | 1               |
| Methyl tert butyl ether                             | ND     |           | mg/kg | 0.0018  | 0.00018 | 1               |
| 1,1-Dichloroethane                                  | ND     |           | mg/kg | 0.00088 | 0.00013 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | mg/kg | 0.00088 | 0.00015 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | mg/kg | 0.00088 | 0.00012 | 1               |
| Cyclohexane                                         | ND     |           | mg/kg | 0.0088  | 0.00048 | 1               |
| Bromochloromethane                                  | ND     |           | mg/kg | 0.0018  | 0.00018 | 1               |
| Chloroform                                          | ND     |           | mg/kg | 0.0013  | 0.00012 | 1               |
| Carbon tetrachloride                                | ND     |           | mg/kg | 0.00088 | 0.00020 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | mg/kg | 0.00044 | 0.00015 | 1               |
| 2-Butanone                                          | ND     |           | mg/kg | 0.0088  | 0.0020  | 1               |
| Benzene                                             | ND     |           | mg/kg | 0.00044 | 0.00015 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | mg/kg | 0.00088 | 0.00023 | 1               |
| Methyl cyclohexane                                  | ND     |           | mg/kg | 0.0035  | 0.00053 | 1               |
| Trichloroethene                                     | ND     |           | mg/kg | 0.00044 | 0.00012 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | mg/kg | 0.00088 | 0.00011 | 1               |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-02  
**Client ID:** SB-07-03-05  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 11:35  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Bromodichloromethane                                | ND     |           | mg/kg | 0.00044 | 0.00009 | 1               |
| 1,4-Dioxane                                         | ND     |           | mg/kg | 0.070   | 0.031   | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | mg/kg | 0.00044 | 0.00014 | 1               |
| Toluene                                             | ND     |           | mg/kg | 0.00088 | 0.00048 | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | mg/kg | 0.0088  | 0.0011  | 1               |
| Tetrachloroethene                                   | ND     |           | mg/kg | 0.00044 | 0.00017 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | mg/kg | 0.00088 | 0.00024 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | mg/kg | 0.00044 | 0.00014 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | mg/kg | 0.00088 | 0.00024 | 1               |
| Dibromochloromethane                                | ND     |           | mg/kg | 0.00088 | 0.00012 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | mg/kg | 0.00044 | 0.00026 | 1               |
| 2-Hexanone                                          | ND     |           | mg/kg | 0.0088  | 0.0010  | 1               |
| Chlorobenzene                                       | ND     |           | mg/kg | 0.00044 | 0.00011 | 1               |
| Ethylbenzene                                        | ND     |           | mg/kg | 0.00088 | 0.00012 | 1               |
| p/m-Xylene                                          | ND     |           | mg/kg | 0.0018  | 0.00049 | 1               |
| o-Xylene                                            | ND     |           | mg/kg | 0.00088 | 0.00026 | 1               |
| Xylenes, Total                                      | ND     |           | mg/kg | 0.00088 | 0.00026 | 1               |
| Styrene                                             | ND     |           | mg/kg | 0.00088 | 0.00017 | 1               |
| Bromoform                                           | ND     |           | mg/kg | 0.0035  | 0.00022 | 1               |
| Isopropylbenzene                                    | ND     |           | mg/kg | 0.00088 | 0.00009 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | mg/kg | 0.00044 | 0.00015 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | mg/kg | 0.0018  | 0.00017 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | mg/kg | 0.0018  | 0.00029 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0018  | 0.00013 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0018  | 0.00015 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0018  | 0.00013 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | mg/kg | 0.0026  | 0.00088 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | mg/kg | 0.0018  | 0.00024 | 1               |
| Naphthalene                                         | ND     |           | mg/kg | 0.0035  | 0.00057 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | mg/kg | 0.0018  | 0.00028 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 115        |           | 70-130              |
| Toluene-d8            | 93         |           | 70-130              |
| 4-Bromofluorobenzene  | 90         |           | 70-130              |
| Dibromofluoromethane  | 122        |           | 70-130              |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-03  
**Client ID:** SB-06-00-02  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260D  
**Analytical Date:** 01/14/23 17:19  
**Analyst:** AJK  
**Percent Solids:** 85%

| Parameter                                           | Result  | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|---------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |         |           |       |         |         |                 |
| Dichlorodifluoromethane                             | ND      |           | mg/kg | 0.0097  | 0.00089 | 1               |
| Chloromethane                                       | ND      |           | mg/kg | 0.0039  | 0.00091 | 1               |
| Vinyl chloride                                      | ND      |           | mg/kg | 0.00097 | 0.00033 | 1               |
| Bromomethane                                        | ND      |           | mg/kg | 0.0019  | 0.00057 | 1               |
| Chloroethane                                        | ND      |           | mg/kg | 0.0019  | 0.00044 | 1               |
| Trichlorofluoromethane                              | ND      |           | mg/kg | 0.0039  | 0.00068 | 1               |
| 1,1-Dichloroethene                                  | ND      |           | mg/kg | 0.00097 | 0.00023 | 1               |
| Carbon disulfide                                    | ND      |           | mg/kg | 0.0097  | 0.0044  | 1               |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane               | ND      |           | mg/kg | 0.0039  | 0.00068 | 1               |
| Methylene chloride                                  | ND      |           | mg/kg | 0.0049  | 0.0022  | 1               |
| Acetone                                             | ND      |           | mg/kg | 0.024   | 0.0097  | 1               |
| trans-1,2-Dichloroethene                            | ND      |           | mg/kg | 0.0015  | 0.00013 | 1               |
| Methyl Acetate                                      | ND      |           | mg/kg | 0.0039  | 0.00092 | 1               |
| Methyl tert butyl ether                             | ND      |           | mg/kg | 0.0019  | 0.00020 | 1               |
| 1,1-Dichloroethane                                  | ND      |           | mg/kg | 0.00097 | 0.00014 | 1               |
| cis-1,2-Dichloroethene                              | ND      |           | mg/kg | 0.00097 | 0.00017 | 1               |
| 1,2-Dichloroethene, Total                           | ND      |           | mg/kg | 0.00097 | 0.00013 | 1               |
| Cyclohexane                                         | 0.00056 | J         | mg/kg | 0.0097  | 0.00053 | 1               |
| Bromochloromethane                                  | ND      |           | mg/kg | 0.0019  | 0.00020 | 1               |
| Chloroform                                          | ND      |           | mg/kg | 0.0015  | 0.00014 | 1               |
| Carbon tetrachloride                                | ND      |           | mg/kg | 0.00097 | 0.00022 | 1               |
| 1,1,1-Trichloroethane                               | ND      |           | mg/kg | 0.00049 | 0.00016 | 1               |
| 2-Butanone                                          | ND      |           | mg/kg | 0.0097  | 0.0022  | 1               |
| Benzene                                             | ND      |           | mg/kg | 0.00049 | 0.00016 | 1               |
| 1,2-Dichloroethane                                  | ND      |           | mg/kg | 0.00097 | 0.00025 | 1               |
| Methyl cyclohexane                                  | 0.00077 | J         | mg/kg | 0.0039  | 0.00059 | 1               |
| Trichloroethene                                     | ND      |           | mg/kg | 0.00049 | 0.00013 | 1               |
| 1,2-Dichloropropane                                 | ND      |           | mg/kg | 0.00097 | 0.00012 | 1               |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-03  
**Client ID:** SB-06-00-02  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Bromodichloromethane                                | ND     |           | mg/kg | 0.00049 | 0.00011 | 1               |
| 1,4-Dioxane                                         | ND     |           | mg/kg | 0.078   | 0.034   | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | mg/kg | 0.00049 | 0.00015 | 1               |
| Toluene                                             | ND     |           | mg/kg | 0.00097 | 0.00053 | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | mg/kg | 0.0097  | 0.0012  | 1               |
| Tetrachloroethene                                   | ND     |           | mg/kg | 0.00049 | 0.00019 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | mg/kg | 0.00097 | 0.00027 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | mg/kg | 0.00049 | 0.00015 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | mg/kg | 0.00097 | 0.00026 | 1               |
| Dibromochloromethane                                | ND     |           | mg/kg | 0.00097 | 0.00014 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | mg/kg | 0.00049 | 0.00028 | 1               |
| 2-Hexanone                                          | ND     |           | mg/kg | 0.0097  | 0.0011  | 1               |
| Chlorobenzene                                       | ND     |           | mg/kg | 0.00049 | 0.00012 | 1               |
| Ethylbenzene                                        | ND     |           | mg/kg | 0.00097 | 0.00014 | 1               |
| p/m-Xylene                                          | ND     |           | mg/kg | 0.0019  | 0.00054 | 1               |
| o-Xylene                                            | ND     |           | mg/kg | 0.00097 | 0.00028 | 1               |
| Xylenes, Total                                      | ND     |           | mg/kg | 0.00097 | 0.00028 | 1               |
| Styrene                                             | ND     |           | mg/kg | 0.00097 | 0.00019 | 1               |
| Bromoform                                           | ND     |           | mg/kg | 0.0039  | 0.00024 | 1               |
| Isopropylbenzene                                    | ND     |           | mg/kg | 0.00097 | 0.00011 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | mg/kg | 0.00049 | 0.00016 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | mg/kg | 0.0019  | 0.00019 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | mg/kg | 0.0019  | 0.00032 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0019  | 0.00014 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0019  | 0.00017 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0019  | 0.00014 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | mg/kg | 0.0029  | 0.00097 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | mg/kg | 0.0019  | 0.00026 | 1               |
| Naphthalene                                         | ND     |           | mg/kg | 0.0039  | 0.00063 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | mg/kg | 0.0019  | 0.00031 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 110        |           | 70-130              |
| Toluene-d8            | 96         |           | 70-130              |
| 4-Bromofluorobenzene  | 91         |           | 70-130              |
| Dibromofluoromethane  | 118        |           | 70-130              |





**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-04  
**Client ID:** SB-05-07-09  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:30  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260D  
**Analytical Date:** 01/13/23 14:39  
**Analyst:** LAC  
**Percent Solids:** 86%

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Dichlorodifluoromethane                             | ND     |           | mg/kg | 0.0072  | 0.00065 | 1               |
| Chloromethane                                       | ND     |           | mg/kg | 0.0029  | 0.00067 | 1               |
| Vinyl chloride                                      | ND     |           | mg/kg | 0.00072 | 0.00024 | 1               |
| Bromomethane                                        | ND     |           | mg/kg | 0.0014  | 0.00042 | 1               |
| Chloroethane                                        | ND     |           | mg/kg | 0.0014  | 0.00032 | 1               |
| Trichlorofluoromethane                              | ND     |           | mg/kg | 0.0029  | 0.00050 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | mg/kg | 0.00072 | 0.00017 | 1               |
| Carbon disulfide                                    | ND     |           | mg/kg | 0.0072  | 0.0032  | 1               |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane               | ND     |           | mg/kg | 0.0029  | 0.00050 | 1               |
| Methylene chloride                                  | ND     |           | mg/kg | 0.0036  | 0.0016  | 1               |
| Acetone                                             | ND     |           | mg/kg | 0.018   | 0.0072  | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | mg/kg | 0.0011  | 0.00009 | 1               |
| Methyl Acetate                                      | ND     |           | mg/kg | 0.0029  | 0.00068 | 1               |
| Methyl tert butyl ether                             | ND     |           | mg/kg | 0.0014  | 0.00014 | 1               |
| 1,1-Dichloroethane                                  | ND     |           | mg/kg | 0.00072 | 0.00010 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | mg/kg | 0.00072 | 0.00012 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | mg/kg | 0.00072 | 0.00009 | 1               |
| Cyclohexane                                         | ND     |           | mg/kg | 0.0072  | 0.00039 | 1               |
| Bromochloromethane                                  | ND     |           | mg/kg | 0.0014  | 0.00015 | 1               |
| Chloroform                                          | ND     |           | mg/kg | 0.0011  | 0.00010 | 1               |
| Carbon tetrachloride                                | ND     |           | mg/kg | 0.00072 | 0.00016 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | mg/kg | 0.00036 | 0.00012 | 1               |
| 2-Butanone                                          | ND     |           | mg/kg | 0.0072  | 0.0016  | 1               |
| Benzene                                             | ND     |           | mg/kg | 0.00036 | 0.00012 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | mg/kg | 0.00072 | 0.00018 | 1               |
| Methyl cyclohexane                                  | ND     |           | mg/kg | 0.0029  | 0.00043 | 1               |
| Trichloroethene                                     | ND     |           | mg/kg | 0.00036 | 0.00009 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | mg/kg | 0.00072 | 0.00008 | 1               |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-04  
**Client ID:** SB-05-07-09  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:30  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Bromodichloromethane                                | ND     |           | mg/kg | 0.00036 | 0.00007 | 1               |
| 1,4-Dioxane                                         | ND     |           | mg/kg | 0.057   | 0.025   | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | mg/kg | 0.00036 | 0.00011 | 1               |
| Toluene                                             | ND     |           | mg/kg | 0.00072 | 0.00039 | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | mg/kg | 0.0072  | 0.00092 | 1               |
| Tetrachloroethene                                   | ND     |           | mg/kg | 0.00036 | 0.00014 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | mg/kg | 0.00072 | 0.00020 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | mg/kg | 0.00036 | 0.00011 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | mg/kg | 0.00072 | 0.00019 | 1               |
| Dibromochloromethane                                | ND     |           | mg/kg | 0.00072 | 0.00010 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | mg/kg | 0.00036 | 0.00021 | 1               |
| 2-Hexanone                                          | ND     |           | mg/kg | 0.0072  | 0.00084 | 1               |
| Chlorobenzene                                       | ND     |           | mg/kg | 0.00036 | 0.00009 | 1               |
| Ethylbenzene                                        | ND     |           | mg/kg | 0.00072 | 0.00010 | 1               |
| p/m-Xylene                                          | ND     |           | mg/kg | 0.0014  | 0.00040 | 1               |
| o-Xylene                                            | ND     |           | mg/kg | 0.00072 | 0.00021 | 1               |
| Xylenes, Total                                      | ND     |           | mg/kg | 0.00072 | 0.00021 | 1               |
| Styrene                                             | ND     |           | mg/kg | 0.00072 | 0.00014 | 1               |
| Bromoform                                           | ND     |           | mg/kg | 0.0029  | 0.00018 | 1               |
| Isopropylbenzene                                    | ND     |           | mg/kg | 0.00072 | 0.00007 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | mg/kg | 0.00036 | 0.00012 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | mg/kg | 0.0014  | 0.00014 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | mg/kg | 0.0014  | 0.00024 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0014  | 0.00010 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0014  | 0.00012 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0014  | 0.00010 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | mg/kg | 0.0021  | 0.00071 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | mg/kg | 0.0014  | 0.00019 | 1               |
| Naphthalene                                         | ND     |           | mg/kg | 0.0029  | 0.00046 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | mg/kg | 0.0014  | 0.00023 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 109        |           | 70-130              |
| Toluene-d8            | 98         |           | 70-130              |
| 4-Bromofluorobenzene  | 93         |           | 70-130              |
| Dibromofluoromethane  | 117        |           | 70-130              |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-05  
**Client ID:** SB-04-02-04  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:55  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260D  
**Analytical Date:** 01/13/23 15:06  
**Analyst:** LAC  
**Percent Solids:** 83%

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Dichlorodifluoromethane                             | ND     |           | mg/kg | 0.0092  | 0.00084 | 1               |
| Chloromethane                                       | ND     |           | mg/kg | 0.0037  | 0.00086 | 1               |
| Vinyl chloride                                      | ND     |           | mg/kg | 0.00092 | 0.00031 | 1               |
| Bromomethane                                        | ND     |           | mg/kg | 0.0018  | 0.00054 | 1               |
| Chloroethane                                        | ND     |           | mg/kg | 0.0018  | 0.00042 | 1               |
| Trichlorofluoromethane                              | ND     |           | mg/kg | 0.0037  | 0.00064 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | mg/kg | 0.00092 | 0.00022 | 1               |
| Carbon disulfide                                    | ND     |           | mg/kg | 0.0092  | 0.0042  | 1               |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane               | ND     |           | mg/kg | 0.0037  | 0.00064 | 1               |
| Methylene chloride                                  | ND     |           | mg/kg | 0.0046  | 0.0021  | 1               |
| Acetone                                             | ND     |           | mg/kg | 0.023   | 0.0092  | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | mg/kg | 0.0014  | 0.00013 | 1               |
| Methyl Acetate                                      | ND     |           | mg/kg | 0.0037  | 0.00088 | 1               |
| Methyl tert butyl ether                             | ND     |           | mg/kg | 0.0018  | 0.00018 | 1               |
| 1,1-Dichloroethane                                  | ND     |           | mg/kg | 0.00092 | 0.00013 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | mg/kg | 0.00092 | 0.00016 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | mg/kg | 0.00092 | 0.00013 | 1               |
| Cyclohexane                                         | ND     |           | mg/kg | 0.0092  | 0.00050 | 1               |
| Bromochloromethane                                  | ND     |           | mg/kg | 0.0018  | 0.00019 | 1               |
| Chloroform                                          | ND     |           | mg/kg | 0.0014  | 0.00013 | 1               |
| Carbon tetrachloride                                | ND     |           | mg/kg | 0.00092 | 0.00021 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | mg/kg | 0.00046 | 0.00015 | 1               |
| 2-Butanone                                          | ND     |           | mg/kg | 0.0092  | 0.0020  | 1               |
| Benzene                                             | ND     |           | mg/kg | 0.00046 | 0.00015 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | mg/kg | 0.00092 | 0.00024 | 1               |
| Methyl cyclohexane                                  | ND     |           | mg/kg | 0.0037  | 0.00056 | 1               |
| Trichloroethene                                     | ND     |           | mg/kg | 0.00046 | 0.00013 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | mg/kg | 0.00092 | 0.00012 | 1               |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-05  
**Client ID:** SB-04-02-04  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:55  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Bromodichloromethane                                | ND     |           | mg/kg | 0.00046 | 0.00010 | 1               |
| 1,4-Dioxane                                         | ND     |           | mg/kg | 0.074   | 0.032   | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | mg/kg | 0.00046 | 0.00014 | 1               |
| Toluene                                             | ND     |           | mg/kg | 0.00092 | 0.00050 | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | mg/kg | 0.0092  | 0.0012  | 1               |
| Tetrachloroethene                                   | ND     |           | mg/kg | 0.00046 | 0.00018 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | mg/kg | 0.00092 | 0.00025 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | mg/kg | 0.00046 | 0.00014 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | mg/kg | 0.00092 | 0.00025 | 1               |
| Dibromochloromethane                                | ND     |           | mg/kg | 0.00092 | 0.00013 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | mg/kg | 0.00046 | 0.00027 | 1               |
| 2-Hexanone                                          | ND     |           | mg/kg | 0.0092  | 0.0011  | 1               |
| Chlorobenzene                                       | ND     |           | mg/kg | 0.00046 | 0.00012 | 1               |
| Ethylbenzene                                        | ND     |           | mg/kg | 0.00092 | 0.00013 | 1               |
| p/m-Xylene                                          | ND     |           | mg/kg | 0.0018  | 0.00052 | 1               |
| o-Xylene                                            | ND     |           | mg/kg | 0.00092 | 0.00027 | 1               |
| Xylenes, Total                                      | ND     |           | mg/kg | 0.00092 | 0.00027 | 1               |
| Styrene                                             | ND     |           | mg/kg | 0.00092 | 0.00018 | 1               |
| Bromoform                                           | ND     |           | mg/kg | 0.0037  | 0.00023 | 1               |
| Isopropylbenzene                                    | ND     |           | mg/kg | 0.00092 | 0.00010 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | mg/kg | 0.00046 | 0.00015 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | mg/kg | 0.0018  | 0.00018 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | mg/kg | 0.0018  | 0.00031 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0018  | 0.00014 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0018  | 0.00016 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0018  | 0.00013 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | mg/kg | 0.0028  | 0.00092 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | mg/kg | 0.0018  | 0.00025 | 1               |
| Naphthalene                                         | ND     |           | mg/kg | 0.0037  | 0.00060 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | mg/kg | 0.0018  | 0.00030 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 110        |           | 70-130              |
| Toluene-d8            | 95         |           | 70-130              |
| 4-Bromofluorobenzene  | 90         |           | 70-130              |
| Dibromofluoromethane  | 119        |           | 70-130              |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-06  
**Client ID:** SB-03-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 13:10  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260D  
**Analytical Date:** 01/14/23 16:51  
**Analyst:** AJK  
**Percent Solids:** 87%

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Dichlorodifluoromethane                             | ND     |           | mg/kg | 0.010   | 0.00092 | 1               |
| Chloromethane                                       | ND     |           | mg/kg | 0.0040  | 0.00094 | 1               |
| Vinyl chloride                                      | ND     |           | mg/kg | 0.0010  | 0.00034 | 1               |
| Bromomethane                                        | 0.0023 |           | mg/kg | 0.0020  | 0.00058 | 1               |
| Chloroethane                                        | ND     |           | mg/kg | 0.0020  | 0.00045 | 1               |
| Trichlorofluoromethane                              | ND     |           | mg/kg | 0.0040  | 0.00070 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | mg/kg | 0.0010  | 0.00024 | 1               |
| Carbon disulfide                                    | ND     |           | mg/kg | 0.010   | 0.0046  | 1               |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane               | ND     |           | mg/kg | 0.0040  | 0.00070 | 1               |
| Methylene chloride                                  | ND     |           | mg/kg | 0.0050  | 0.0023  | 1               |
| Acetone                                             | ND     |           | mg/kg | 0.025   | 0.010   | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | mg/kg | 0.0015  | 0.00014 | 1               |
| Methyl Acetate                                      | ND     |           | mg/kg | 0.0040  | 0.00095 | 1               |
| Methyl tert butyl ether                             | ND     |           | mg/kg | 0.0020  | 0.00020 | 1               |
| 1,1-Dichloroethane                                  | ND     |           | mg/kg | 0.0010  | 0.00014 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | mg/kg | 0.0010  | 0.00018 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | mg/kg | 0.0010  | 0.00014 | 1               |
| Cyclohexane                                         | ND     |           | mg/kg | 0.010   | 0.00054 | 1               |
| Bromochloromethane                                  | ND     |           | mg/kg | 0.0020  | 0.00020 | 1               |
| Chloroform                                          | ND     |           | mg/kg | 0.0015  | 0.00014 | 1               |
| Carbon tetrachloride                                | ND     |           | mg/kg | 0.0010  | 0.00023 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | mg/kg | 0.00050 | 0.00017 | 1               |
| 2-Butanone                                          | ND     |           | mg/kg | 0.010   | 0.0022  | 1               |
| Benzene                                             | ND     |           | mg/kg | 0.00050 | 0.00017 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | mg/kg | 0.0010  | 0.00026 | 1               |
| Methyl cyclohexane                                  | ND     |           | mg/kg | 0.0040  | 0.00060 | 1               |
| Trichloroethene                                     | ND     |           | mg/kg | 0.00050 | 0.00014 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | mg/kg | 0.0010  | 0.00012 | 1               |



Project Name: CUY-77-11.21 PID 10573

Lab Number: L2301501

Project Number: 301525.1000

Report Date: 01/18/23

## SAMPLE RESULTS

Lab ID: L2301501-06

Date Collected: 01/10/23 13:10

Client ID: SB-03-08-10

Date Received: 01/11/23

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Bromodichloromethane                                | ND     |           | mg/kg | 0.00050 | 0.00011 | 1               |
| 1,4-Dioxane                                         | ND     |           | mg/kg | 0.080   | 0.035   | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | mg/kg | 0.00050 | 0.00016 | 1               |
| Toluene                                             | ND     |           | mg/kg | 0.0010  | 0.00054 | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | mg/kg | 0.010   | 0.0013  | 1               |
| Tetrachloroethene                                   | ND     |           | mg/kg | 0.00050 | 0.00020 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | mg/kg | 0.0010  | 0.00027 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | mg/kg | 0.00050 | 0.00016 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | mg/kg | 0.0010  | 0.00027 | 1               |
| Dibromochloromethane                                | ND     |           | mg/kg | 0.0010  | 0.00014 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | mg/kg | 0.00050 | 0.00029 | 1               |
| 2-Hexanone                                          | ND     |           | mg/kg | 0.010   | 0.0012  | 1               |
| Chlorobenzene                                       | ND     |           | mg/kg | 0.00050 | 0.00013 | 1               |
| Ethylbenzene                                        | ND     |           | mg/kg | 0.0010  | 0.00014 | 1               |
| p/m-Xylene                                          | ND     |           | mg/kg | 0.0020  | 0.00056 | 1               |
| o-Xylene                                            | ND     |           | mg/kg | 0.0010  | 0.00029 | 1               |
| Xylenes, Total                                      | ND     |           | mg/kg | 0.0010  | 0.00029 | 1               |
| Styrene                                             | ND     |           | mg/kg | 0.0010  | 0.00020 | 1               |
| Bromoform                                           | ND     |           | mg/kg | 0.0040  | 0.00025 | 1               |
| Isopropylbenzene                                    | ND     |           | mg/kg | 0.0010  | 0.00011 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | mg/kg | 0.00050 | 0.00017 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | mg/kg | 0.0020  | 0.00019 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | mg/kg | 0.0020  | 0.00034 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0020  | 0.00015 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0020  | 0.00017 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0020  | 0.00014 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | mg/kg | 0.0030  | 0.0010  | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | mg/kg | 0.0020  | 0.00027 | 1               |
| Naphthalene                                         | ND     |           | mg/kg | 0.0040  | 0.00065 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | mg/kg | 0.0020  | 0.00032 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 164        | Q         | 70-130              |
| Toluene-d8            | 85         |           | 70-130              |
| 4-Bromofluorobenzene  | 83         |           | 70-130              |
| Dibromofluoromethane  | 143        | Q         | 70-130              |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-07  
**Client ID:** SB-02-00-02  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 13:35  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260D  
**Analytical Date:** 01/13/23 16:00  
**Analyst:** LAC  
**Percent Solids:** 88%

| Parameter                                           | Result  | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|---------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |         |           |       |         |         |                 |
| Dichlorodifluoromethane                             | ND      |           | mg/kg | 0.0093  | 0.00085 | 1               |
| Chloromethane                                       | ND      |           | mg/kg | 0.0037  | 0.00087 | 1               |
| Vinyl chloride                                      | ND      |           | mg/kg | 0.00093 | 0.00031 | 1               |
| Bromomethane                                        | ND      |           | mg/kg | 0.0019  | 0.00054 | 1               |
| Chloroethane                                        | ND      |           | mg/kg | 0.0019  | 0.00042 | 1               |
| Trichlorofluoromethane                              | ND      |           | mg/kg | 0.0037  | 0.00065 | 1               |
| 1,1-Dichloroethene                                  | ND      |           | mg/kg | 0.00093 | 0.00022 | 1               |
| Carbon disulfide                                    | ND      |           | mg/kg | 0.0093  | 0.0042  | 1               |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane               | ND      |           | mg/kg | 0.0037  | 0.00065 | 1               |
| Methylene chloride                                  | ND      |           | mg/kg | 0.0047  | 0.0021  | 1               |
| Acetone                                             | ND      |           | mg/kg | 0.023   | 0.0093  | 1               |
| trans-1,2-Dichloroethene                            | ND      |           | mg/kg | 0.0014  | 0.00013 | 1               |
| Methyl Acetate                                      | ND      |           | mg/kg | 0.0037  | 0.00089 | 1               |
| Methyl tert butyl ether                             | ND      |           | mg/kg | 0.0019  | 0.00019 | 1               |
| 1,1-Dichloroethane                                  | ND      |           | mg/kg | 0.00093 | 0.00014 | 1               |
| cis-1,2-Dichloroethene                              | ND      |           | mg/kg | 0.00093 | 0.00016 | 1               |
| 1,2-Dichloroethene, Total                           | ND      |           | mg/kg | 0.00093 | 0.00013 | 1               |
| Cyclohexane                                         | ND      |           | mg/kg | 0.0093  | 0.00051 | 1               |
| Bromochloromethane                                  | ND      |           | mg/kg | 0.0019  | 0.00019 | 1               |
| Chloroform                                          | ND      |           | mg/kg | 0.0014  | 0.00013 | 1               |
| Carbon tetrachloride                                | ND      |           | mg/kg | 0.00093 | 0.00021 | 1               |
| 1,1,1-Trichloroethane                               | ND      |           | mg/kg | 0.00047 | 0.00016 | 1               |
| 2-Butanone                                          | ND      |           | mg/kg | 0.0093  | 0.0021  | 1               |
| Benzene                                             | 0.0020  |           | mg/kg | 0.00047 | 0.00015 | 1               |
| 1,2-Dichloroethane                                  | ND      |           | mg/kg | 0.00093 | 0.00024 | 1               |
| Methyl cyclohexane                                  | 0.00059 | J         | mg/kg | 0.0037  | 0.00056 | 1               |
| Trichloroethene                                     | ND      |           | mg/kg | 0.00047 | 0.00013 | 1               |
| 1,2-Dichloropropane                                 | ND      |           | mg/kg | 0.00093 | 0.00012 | 1               |





**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-07  
**Client ID:** SB-02-00-02  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 13:35  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result  | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|---------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |         |           |       |         |         |                 |
| Bromodichloromethane                                | ND      |           | mg/kg | 0.00047 | 0.00010 | 1               |
| 1,4-Dioxane                                         | ND      |           | mg/kg | 0.075   | 0.033   | 1               |
| cis-1,3-Dichloropropene                             | ND      |           | mg/kg | 0.00047 | 0.00015 | 1               |
| Toluene                                             | 0.0017  |           | mg/kg | 0.00093 | 0.00051 | 1               |
| 4-Methyl-2-pentanone                                | ND      |           | mg/kg | 0.0093  | 0.0012  | 1               |
| Tetrachloroethene                                   | ND      |           | mg/kg | 0.00047 | 0.00018 | 1               |
| trans-1,3-Dichloropropene                           | ND      |           | mg/kg | 0.00093 | 0.00025 | 1               |
| 1,3-Dichloropropene, Total                          | ND      |           | mg/kg | 0.00047 | 0.00015 | 1               |
| 1,1,2-Trichloroethane                               | ND      |           | mg/kg | 0.00093 | 0.00025 | 1               |
| Dibromochloromethane                                | ND      |           | mg/kg | 0.00093 | 0.00013 | 1               |
| 1,2-Dibromoethane                                   | ND      |           | mg/kg | 0.00047 | 0.00027 | 1               |
| 2-Hexanone                                          | ND      |           | mg/kg | 0.0093  | 0.0011  | 1               |
| Chlorobenzene                                       | ND      |           | mg/kg | 0.00047 | 0.00012 | 1               |
| Ethylbenzene                                        | 0.00041 | J         | mg/kg | 0.00093 | 0.00013 | 1               |
| p/m-Xylene                                          | ND      |           | mg/kg | 0.0019  | 0.00052 | 1               |
| o-Xylene                                            | 0.00027 | J         | mg/kg | 0.00093 | 0.00027 | 1               |
| Xylenes, Total                                      | 0.00027 | J         | mg/kg | 0.00093 | 0.00027 | 1               |
| Styrene                                             | ND      |           | mg/kg | 0.00093 | 0.00018 | 1               |
| Bromoform                                           | ND      |           | mg/kg | 0.0037  | 0.00023 | 1               |
| Isopropylbenzene                                    | 0.00012 | J         | mg/kg | 0.00093 | 0.00010 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND      |           | mg/kg | 0.00047 | 0.00015 | 1               |
| 1,3,5-Trimethylbenzene                              | ND      |           | mg/kg | 0.0019  | 0.00018 | 1               |
| 1,2,4-Trimethylbenzene                              | ND      |           | mg/kg | 0.0019  | 0.00031 | 1               |
| 1,3-Dichlorobenzene                                 | ND      |           | mg/kg | 0.0019  | 0.00014 | 1               |
| 1,4-Dichlorobenzene                                 | ND      |           | mg/kg | 0.0019  | 0.00016 | 1               |
| 1,2-Dichlorobenzene                                 | ND      |           | mg/kg | 0.0019  | 0.00013 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND      |           | mg/kg | 0.0028  | 0.00093 | 1               |
| 1,2,4-Trichlorobenzene                              | ND      |           | mg/kg | 0.0019  | 0.00025 | 1               |
| Naphthalene                                         | ND      |           | mg/kg | 0.0037  | 0.00061 | 1               |
| 1,2,3-Trichlorobenzene                              | ND      |           | mg/kg | 0.0019  | 0.00030 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 106        |           | 70-130              |
| Toluene-d8            | 98         |           | 70-130              |
| 4-Bromofluorobenzene  | 96         |           | 70-130              |
| Dibromofluoromethane  | 111        |           | 70-130              |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-08  
**Client ID:** SB-01-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 14:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260D  
**Analytical Date:** 01/13/23 16:27  
**Analyst:** LAC  
**Percent Solids:** 91%

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Dichlorodifluoromethane                             | ND     |           | mg/kg | 0.0083  | 0.00076 | 1               |
| Chloromethane                                       | ND     |           | mg/kg | 0.0033  | 0.00078 | 1               |
| Vinyl chloride                                      | ND     |           | mg/kg | 0.00083 | 0.00028 | 1               |
| Bromomethane                                        | ND     |           | mg/kg | 0.0017  | 0.00048 | 1               |
| Chloroethane                                        | ND     |           | mg/kg | 0.0017  | 0.00038 | 1               |
| Trichlorofluoromethane                              | ND     |           | mg/kg | 0.0033  | 0.00058 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | mg/kg | 0.00083 | 0.00020 | 1               |
| Carbon disulfide                                    | ND     |           | mg/kg | 0.0083  | 0.0038  | 1               |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane               | ND     |           | mg/kg | 0.0033  | 0.00058 | 1               |
| Methylene chloride                                  | ND     |           | mg/kg | 0.0042  | 0.0019  | 1               |
| Acetone                                             | ND     |           | mg/kg | 0.021   | 0.0083  | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | mg/kg | 0.0012  | 0.00011 | 1               |
| Methyl Acetate                                      | ND     |           | mg/kg | 0.0033  | 0.00079 | 1               |
| Methyl tert butyl ether                             | ND     |           | mg/kg | 0.0017  | 0.00017 | 1               |
| 1,1-Dichloroethane                                  | ND     |           | mg/kg | 0.00083 | 0.00012 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | mg/kg | 0.00083 | 0.00014 | 1               |
| 1,2-Dichloroethene, Total                           | ND     |           | mg/kg | 0.00083 | 0.00011 | 1               |
| Cyclohexane                                         | ND     |           | mg/kg | 0.0083  | 0.00045 | 1               |
| Bromochloromethane                                  | ND     |           | mg/kg | 0.0017  | 0.00017 | 1               |
| Chloroform                                          | ND     |           | mg/kg | 0.0012  | 0.00012 | 1               |
| Carbon tetrachloride                                | ND     |           | mg/kg | 0.00083 | 0.00019 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | mg/kg | 0.00042 | 0.00014 | 1               |
| 2-Butanone                                          | ND     |           | mg/kg | 0.0083  | 0.0018  | 1               |
| Benzene                                             | ND     |           | mg/kg | 0.00042 | 0.00014 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | mg/kg | 0.00083 | 0.00021 | 1               |
| Methyl cyclohexane                                  | ND     |           | mg/kg | 0.0033  | 0.00050 | 1               |
| Trichloroethene                                     | ND     |           | mg/kg | 0.00042 | 0.00011 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | mg/kg | 0.00083 | 0.00010 | 1               |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-08  
**Client ID:** SB-01-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 14:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL      | MDL     | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|---------|---------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |         |         |                 |
| Bromodichloromethane                                | ND     |           | mg/kg | 0.00042 | 0.00009 | 1               |
| 1,4-Dioxane                                         | ND     |           | mg/kg | 0.067   | 0.029   | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | mg/kg | 0.00042 | 0.00013 | 1               |
| Toluene                                             | ND     |           | mg/kg | 0.00083 | 0.00045 | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | mg/kg | 0.0083  | 0.0011  | 1               |
| Tetrachloroethene                                   | ND     |           | mg/kg | 0.00042 | 0.00016 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | mg/kg | 0.00083 | 0.00023 | 1               |
| 1,3-Dichloropropene, Total                          | ND     |           | mg/kg | 0.00042 | 0.00013 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | mg/kg | 0.00083 | 0.00022 | 1               |
| Dibromochloromethane                                | ND     |           | mg/kg | 0.00083 | 0.00012 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | mg/kg | 0.00042 | 0.00024 | 1               |
| 2-Hexanone                                          | ND     |           | mg/kg | 0.0083  | 0.00098 | 1               |
| Chlorobenzene                                       | ND     |           | mg/kg | 0.00042 | 0.00010 | 1               |
| Ethylbenzene                                        | ND     |           | mg/kg | 0.00083 | 0.00012 | 1               |
| p/m-Xylene                                          | ND     |           | mg/kg | 0.0017  | 0.00047 | 1               |
| o-Xylene                                            | ND     |           | mg/kg | 0.00083 | 0.00024 | 1               |
| Xylenes, Total                                      | ND     |           | mg/kg | 0.00083 | 0.00024 | 1               |
| Styrene                                             | ND     |           | mg/kg | 0.00083 | 0.00016 | 1               |
| Bromoform                                           | ND     |           | mg/kg | 0.0033  | 0.00020 | 1               |
| Isopropylbenzene                                    | ND     |           | mg/kg | 0.00083 | 0.00009 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | mg/kg | 0.00042 | 0.00014 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | mg/kg | 0.0017  | 0.00016 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | mg/kg | 0.0017  | 0.00028 | 1               |
| 1,3-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0017  | 0.00012 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0017  | 0.00014 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | mg/kg | 0.0017  | 0.00012 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | mg/kg | 0.0025  | 0.00083 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | mg/kg | 0.0017  | 0.00023 | 1               |
| Naphthalene                                         | ND     |           | mg/kg | 0.0033  | 0.00054 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | mg/kg | 0.0017  | 0.00027 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 110        |           | 70-130              |
| Toluene-d8            | 97         |           | 70-130              |
| 4-Bromofluorobenzene  | 90         |           | 70-130              |
| Dibromofluoromethane  | 118        |           | 70-130              |



Project Name: CUY-77-11.21 PID 10573

Lab Number: L2301501

Project Number: 301525.1000

Report Date: 01/18/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D  
 Analytical Date: 01/13/23 11:55  
 Analyst: JIC

| Parameter                                                                                               | Result | Qualifier | Units | RL      | MDL     |
|---------------------------------------------------------------------------------------------------------|--------|-----------|-------|---------|---------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02,04-05,07-08 Batch: WG1733735-5 |        |           |       |         |         |
| Dichlorodifluoromethane                                                                                 | ND     |           | mg/kg | 0.010   | 0.00092 |
| Chloromethane                                                                                           | ND     |           | mg/kg | 0.0040  | 0.00093 |
| Vinyl chloride                                                                                          | ND     |           | mg/kg | 0.0010  | 0.00034 |
| Bromomethane                                                                                            | 0.0017 | J         | mg/kg | 0.0020  | 0.00058 |
| Chloroethane                                                                                            | ND     |           | mg/kg | 0.0020  | 0.00045 |
| Trichlorofluoromethane                                                                                  | ND     |           | mg/kg | 0.0040  | 0.00070 |
| 1,1-Dichloroethene                                                                                      | ND     |           | mg/kg | 0.0010  | 0.00024 |
| Carbon disulfide                                                                                        | ND     |           | mg/kg | 0.010   | 0.0046  |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane                                                                   | ND     |           | mg/kg | 0.0040  | 0.00069 |
| Methylene chloride                                                                                      | ND     |           | mg/kg | 0.0050  | 0.0023  |
| Acetone                                                                                                 | ND     |           | mg/kg | 0.025   | 0.010   |
| trans-1,2-Dichloroethene                                                                                | ND     |           | mg/kg | 0.0015  | 0.00014 |
| Methyl Acetate                                                                                          | ND     |           | mg/kg | 0.0040  | 0.00095 |
| Methyl tert butyl ether                                                                                 | ND     |           | mg/kg | 0.0020  | 0.00020 |
| 1,1-Dichloroethane                                                                                      | ND     |           | mg/kg | 0.0010  | 0.00014 |
| cis-1,2-Dichloroethene                                                                                  | ND     |           | mg/kg | 0.0010  | 0.00018 |
| 1,2-Dichloroethene, Total                                                                               | ND     |           | mg/kg | 0.0010  | 0.00014 |
| Cyclohexane                                                                                             | ND     |           | mg/kg | 0.010   | 0.00054 |
| Bromochloromethane                                                                                      | ND     |           | mg/kg | 0.0020  | 0.00020 |
| Chloroform                                                                                              | ND     |           | mg/kg | 0.0015  | 0.00014 |
| Carbon tetrachloride                                                                                    | ND     |           | mg/kg | 0.0010  | 0.00023 |
| 1,1,1-Trichloroethane                                                                                   | ND     |           | mg/kg | 0.00050 | 0.00017 |
| 2-Butanone                                                                                              | ND     |           | mg/kg | 0.010   | 0.0022  |
| Benzene                                                                                                 | ND     |           | mg/kg | 0.00050 | 0.00017 |
| 1,2-Dichloroethane                                                                                      | ND     |           | mg/kg | 0.0010  | 0.00026 |
| Methyl cyclohexane                                                                                      | ND     |           | mg/kg | 0.0040  | 0.00060 |
| Trichloroethene                                                                                         | ND     |           | mg/kg | 0.00050 | 0.00014 |
| 1,2-Dichloropropane                                                                                     | ND     |           | mg/kg | 0.0010  | 0.00012 |
| Bromodichloromethane                                                                                    | ND     |           | mg/kg | 0.00050 | 0.00011 |



Project Name: CUY-77-11.21 PID 10573

Lab Number: L2301501

Project Number: 301525.1000

Report Date: 01/18/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D  
 Analytical Date: 01/13/23 11:55  
 Analyst: JIC

| Parameter                                                                                               | Result | Qualifier | Units | RL      | MDL     |
|---------------------------------------------------------------------------------------------------------|--------|-----------|-------|---------|---------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02,04-05,07-08 Batch: WG1733735-5 |        |           |       |         |         |
| 1,4-Dioxane                                                                                             | ND     |           | mg/kg | 0.080   | 0.035   |
| cis-1,3-Dichloropropene                                                                                 | ND     |           | mg/kg | 0.00050 | 0.00016 |
| Toluene                                                                                                 | ND     |           | mg/kg | 0.0010  | 0.00054 |
| 4-Methyl-2-pentanone                                                                                    | ND     |           | mg/kg | 0.010   | 0.0013  |
| Tetrachloroethene                                                                                       | ND     |           | mg/kg | 0.00050 | 0.00020 |
| trans-1,3-Dichloropropene                                                                               | ND     |           | mg/kg | 0.0010  | 0.00027 |
| 1,3-Dichloropropene, Total                                                                              | ND     |           | mg/kg | 0.00050 | 0.00016 |
| 1,1,2-Trichloroethane                                                                                   | ND     |           | mg/kg | 0.0010  | 0.00027 |
| Dibromochloromethane                                                                                    | ND     |           | mg/kg | 0.0010  | 0.00014 |
| 1,2-Dibromoethane                                                                                       | ND     |           | mg/kg | 0.00050 | 0.00029 |
| 2-Hexanone                                                                                              | ND     |           | mg/kg | 0.010   | 0.0012  |
| Chlorobenzene                                                                                           | ND     |           | mg/kg | 0.00050 | 0.00013 |
| Ethylbenzene                                                                                            | ND     |           | mg/kg | 0.0010  | 0.00014 |
| p/m-Xylene                                                                                              | ND     |           | mg/kg | 0.0020  | 0.00056 |
| o-Xylene                                                                                                | ND     |           | mg/kg | 0.0010  | 0.00029 |
| Xylenes, Total                                                                                          | ND     |           | mg/kg | 0.0010  | 0.00029 |
| Styrene                                                                                                 | ND     |           | mg/kg | 0.0010  | 0.00020 |
| Bromoform                                                                                               | ND     |           | mg/kg | 0.0040  | 0.00025 |
| Isopropylbenzene                                                                                        | ND     |           | mg/kg | 0.0010  | 0.00011 |
| 1,1,2,2-Tetrachloroethane                                                                               | ND     |           | mg/kg | 0.00050 | 0.00017 |
| 1,3,5-Trimethylbenzene                                                                                  | ND     |           | mg/kg | 0.0020  | 0.00019 |
| 1,2,4-Trimethylbenzene                                                                                  | ND     |           | mg/kg | 0.0020  | 0.00033 |
| 1,3-Dichlorobenzene                                                                                     | ND     |           | mg/kg | 0.0020  | 0.00015 |
| 1,4-Dichlorobenzene                                                                                     | ND     |           | mg/kg | 0.0020  | 0.00017 |
| 1,2-Dichlorobenzene                                                                                     | ND     |           | mg/kg | 0.0020  | 0.00014 |
| 1,2-Dibromo-3-chloropropane                                                                             | ND     |           | mg/kg | 0.0030  | 0.0010  |
| 1,2,4-Trichlorobenzene                                                                                  | ND     |           | mg/kg | 0.0020  | 0.00027 |
| Naphthalene                                                                                             | ND     |           | mg/kg | 0.0040  | 0.00065 |
| 1,2,3-Trichlorobenzene                                                                                  | ND     |           | mg/kg | 0.0020  | 0.00032 |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D  
 Analytical Date: 01/13/23 11:55  
 Analyst: JIC

| Parameter                                                                                               | Result | Qualifier | Units | RL | MDL |
|---------------------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02,04-05,07-08 Batch: WG1733735-5 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 105       |           | 70-130                 |
| Toluene-d8            | 94        |           | 70-130                 |
| 4-Bromofluorobenzene  | 88        |           | 70-130                 |
| Dibromofluoromethane  | 110       |           | 70-130                 |

Project Name: CUY-77-11.21 PID 10573

Lab Number: L2301501

Project Number: 301525.1000

Report Date: 01/18/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D  
 Analytical Date: 01/14/23 16:24  
 Analyst: LAC

| Parameter                                                                                   | Result | Qualifier | Units | RL      | MDL     |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|---------|---------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03,06 Batch: WG1733746-5 |        |           |       |         |         |
| Dichlorodifluoromethane                                                                     | ND     |           | mg/kg | 0.010   | 0.00092 |
| Chloromethane                                                                               | ND     |           | mg/kg | 0.0040  | 0.00093 |
| Vinyl chloride                                                                              | ND     |           | mg/kg | 0.0010  | 0.00034 |
| Bromomethane                                                                                | 0.0016 | J         | mg/kg | 0.0020  | 0.00058 |
| Chloroethane                                                                                | ND     |           | mg/kg | 0.0020  | 0.00045 |
| Trichlorofluoromethane                                                                      | ND     |           | mg/kg | 0.0040  | 0.00070 |
| 1,1-Dichloroethene                                                                          | ND     |           | mg/kg | 0.0010  | 0.00024 |
| Carbon disulfide                                                                            | ND     |           | mg/kg | 0.010   | 0.0046  |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane                                                       | ND     |           | mg/kg | 0.0040  | 0.00069 |
| Methylene chloride                                                                          | ND     |           | mg/kg | 0.0050  | 0.0023  |
| Acetone                                                                                     | ND     |           | mg/kg | 0.025   | 0.010   |
| trans-1,2-Dichloroethene                                                                    | ND     |           | mg/kg | 0.0015  | 0.00014 |
| Methyl Acetate                                                                              | ND     |           | mg/kg | 0.0040  | 0.00095 |
| Methyl tert butyl ether                                                                     | ND     |           | mg/kg | 0.0020  | 0.00020 |
| 1,1-Dichloroethane                                                                          | ND     |           | mg/kg | 0.0010  | 0.00014 |
| cis-1,2-Dichloroethene                                                                      | ND     |           | mg/kg | 0.0010  | 0.00018 |
| 1,2-Dichloroethene, Total                                                                   | ND     |           | mg/kg | 0.0010  | 0.00014 |
| Cyclohexane                                                                                 | ND     |           | mg/kg | 0.010   | 0.00054 |
| Bromochloromethane                                                                          | ND     |           | mg/kg | 0.0020  | 0.00020 |
| Chloroform                                                                                  | ND     |           | mg/kg | 0.0015  | 0.00014 |
| Carbon tetrachloride                                                                        | ND     |           | mg/kg | 0.0010  | 0.00023 |
| 1,1,1-Trichloroethane                                                                       | ND     |           | mg/kg | 0.00050 | 0.00017 |
| 2-Butanone                                                                                  | ND     |           | mg/kg | 0.010   | 0.0022  |
| Benzene                                                                                     | ND     |           | mg/kg | 0.00050 | 0.00017 |
| 1,2-Dichloroethane                                                                          | ND     |           | mg/kg | 0.0010  | 0.00026 |
| Methyl cyclohexane                                                                          | ND     |           | mg/kg | 0.0040  | 0.00060 |
| Trichloroethene                                                                             | ND     |           | mg/kg | 0.00050 | 0.00014 |
| 1,2-Dichloropropane                                                                         | ND     |           | mg/kg | 0.0010  | 0.00012 |
| Bromodichloromethane                                                                        | ND     |           | mg/kg | 0.00050 | 0.00011 |

Project Name: CUY-77-11.21 PID 10573

Lab Number: L2301501

Project Number: 301525.1000

Report Date: 01/18/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D  
 Analytical Date: 01/14/23 16:24  
 Analyst: LAC

| Parameter                                                                                   | Result | Qualifier | Units | RL      | MDL     |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|---------|---------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03,06 Batch: WG1733746-5 |        |           |       |         |         |
| 1,4-Dioxane                                                                                 | ND     |           | mg/kg | 0.080   | 0.035   |
| cis-1,3-Dichloropropene                                                                     | ND     |           | mg/kg | 0.00050 | 0.00016 |
| Toluene                                                                                     | ND     |           | mg/kg | 0.0010  | 0.00054 |
| 4-Methyl-2-pentanone                                                                        | ND     |           | mg/kg | 0.010   | 0.0013  |
| Tetrachloroethene                                                                           | ND     |           | mg/kg | 0.00050 | 0.00020 |
| trans-1,3-Dichloropropene                                                                   | ND     |           | mg/kg | 0.0010  | 0.00027 |
| 1,3-Dichloropropene, Total                                                                  | ND     |           | mg/kg | 0.00050 | 0.00016 |
| 1,1,2-Trichloroethane                                                                       | ND     |           | mg/kg | 0.0010  | 0.00027 |
| Dibromochloromethane                                                                        | ND     |           | mg/kg | 0.0010  | 0.00014 |
| 1,2-Dibromoethane                                                                           | ND     |           | mg/kg | 0.00050 | 0.00029 |
| 2-Hexanone                                                                                  | ND     |           | mg/kg | 0.010   | 0.0012  |
| Chlorobenzene                                                                               | ND     |           | mg/kg | 0.00050 | 0.00013 |
| Ethylbenzene                                                                                | ND     |           | mg/kg | 0.0010  | 0.00014 |
| p/m-Xylene                                                                                  | ND     |           | mg/kg | 0.0020  | 0.00056 |
| o-Xylene                                                                                    | ND     |           | mg/kg | 0.0010  | 0.00029 |
| Xylenes, Total                                                                              | ND     |           | mg/kg | 0.0010  | 0.00029 |
| Styrene                                                                                     | ND     |           | mg/kg | 0.0010  | 0.00020 |
| Bromoform                                                                                   | ND     |           | mg/kg | 0.0040  | 0.00025 |
| Isopropylbenzene                                                                            | ND     |           | mg/kg | 0.0010  | 0.00011 |
| 1,1,2,2-Tetrachloroethane                                                                   | ND     |           | mg/kg | 0.00050 | 0.00017 |
| 1,3,5-Trimethylbenzene                                                                      | ND     |           | mg/kg | 0.0020  | 0.00019 |
| 1,2,4-Trimethylbenzene                                                                      | ND     |           | mg/kg | 0.0020  | 0.00033 |
| 1,3-Dichlorobenzene                                                                         | ND     |           | mg/kg | 0.0020  | 0.00015 |
| 1,4-Dichlorobenzene                                                                         | ND     |           | mg/kg | 0.0020  | 0.00017 |
| 1,2-Dichlorobenzene                                                                         | ND     |           | mg/kg | 0.0020  | 0.00014 |
| 1,2-Dibromo-3-chloropropane                                                                 | ND     |           | mg/kg | 0.0030  | 0.0010  |
| 1,2,4-Trichlorobenzene                                                                      | ND     |           | mg/kg | 0.0020  | 0.00027 |
| Naphthalene                                                                                 | ND     |           | mg/kg | 0.0040  | 0.00065 |
| 1,2,3-Trichlorobenzene                                                                      | ND     |           | mg/kg | 0.0020  | 0.00032 |



**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
 Analytical Date: 01/14/23 16:24  
 Analyst: LAC

| Parameter                                                                                   | Result | Qualifier | Units | RL | MDL |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03,06 Batch: WG1733746-5 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 103       |           | 70-130                 |
| Toluene-d8            | 94        |           | 70-130                 |
| 4-Bromofluorobenzene  | 88        |           | 70-130                 |
| Dibromofluoromethane  | 114       |           | 70-130                 |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CUY-77-11.21 PID 10573

**Lab Number:** L2301501

**Project Number:** 301525.1000

**Report Date:** 01/18/23

| Parameter                                                                                                                  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02,04-05,07-08 Batch: WG1733735-3 WG1733735-4 |                  |      |                   |      |                     |     |      |               |
| Dichlorodifluoromethane                                                                                                    | 106              |      | 104               |      | 30-146              | 2   |      | 30            |
| Chloromethane                                                                                                              | 124              |      | 124               |      | 52-130              | 0   |      | 30            |
| Vinyl chloride                                                                                                             | 91               |      | 90                |      | 67-130              | 1   |      | 30            |
| Bromomethane                                                                                                               | 128              |      | 128               |      | 57-147              | 0   |      | 30            |
| Chloroethane                                                                                                               | 98               |      | 96                |      | 50-151              | 2   |      | 30            |
| Trichlorofluoromethane                                                                                                     | 97               |      | 95                |      | 70-139              | 2   |      | 30            |
| 1,1-Dichloroethene                                                                                                         | 88               |      | 88                |      | 65-135              | 0   |      | 30            |
| Carbon disulfide                                                                                                           | 53               | Q    | 52                | Q    | 59-130              | 2   |      | 30            |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane                                                                                      | 89               |      | 88                |      | 50-139              | 1   |      | 30            |
| Methylene chloride                                                                                                         | 80               |      | 71                |      | 70-130              | 12  |      | 30            |
| Acetone                                                                                                                    | 109              |      | 112               |      | 54-140              | 3   |      | 30            |
| trans-1,2-Dichloroethene                                                                                                   | 97               |      | 98                |      | 70-130              | 1   |      | 30            |
| Methyl Acetate                                                                                                             | 109              |      | 105               |      | 51-146              | 4   |      | 30            |
| Methyl tert butyl ether                                                                                                    | 86               |      | 86                |      | 66-130              | 0   |      | 30            |
| 1,1-Dichloroethane                                                                                                         | 93               |      | 95                |      | 70-130              | 2   |      | 30            |
| cis-1,2-Dichloroethene                                                                                                     | 94               |      | 94                |      | 70-130              | 0   |      | 30            |
| Cyclohexane                                                                                                                | 96               |      | 95                |      | 59-142              | 1   |      | 30            |
| Bromochloromethane                                                                                                         | 109              |      | 110               |      | 70-130              | 1   |      | 30            |
| Chloroform                                                                                                                 | 90               |      | 90                |      | 70-130              | 0   |      | 30            |
| Carbon tetrachloride                                                                                                       | 94               |      | 95                |      | 70-130              | 1   |      | 30            |
| 1,1,1-Trichloroethane                                                                                                      | 94               |      | 95                |      | 70-130              | 1   |      | 30            |
| 2-Butanone                                                                                                                 | 99               |      | 98                |      | 70-130              | 1   |      | 30            |
| Benzene                                                                                                                    | 90               |      | 89                |      | 70-130              | 1   |      | 30            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CUY-77-11.21 PID 10573

**Project Number:** 301525.1000

**Lab Number:** L2301501

**Report Date:** 01/18/23

| Parameter                                                                                                                  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02,04-05,07-08 Batch: WG1733735-3 WG1733735-4 |                  |      |                   |      |                     |     |      |               |
| 1,2-Dichloroethane                                                                                                         | 96               |      | 96                |      | 70-130              | 0   |      | 30            |
| Methyl cyclohexane                                                                                                         | 83               |      | 83                |      | 70-130              | 0   |      | 30            |
| Trichloroethene                                                                                                            | 96               |      | 96                |      | 70-130              | 0   |      | 30            |
| 1,2-Dichloropropane                                                                                                        | 94               |      | 95                |      | 70-130              | 1   |      | 30            |
| Bromodichloromethane                                                                                                       | 92               |      | 93                |      | 70-130              | 1   |      | 30            |
| 1,4-Dioxane                                                                                                                | 88               |      | 86                |      | 65-136              | 2   |      | 30            |
| cis-1,3-Dichloropropene                                                                                                    | 94               |      | 94                |      | 70-130              | 0   |      | 30            |
| Toluene                                                                                                                    | 83               |      | 83                |      | 70-130              | 0   |      | 30            |
| 4-Methyl-2-pentanone                                                                                                       | 89               |      | 86                |      | 70-130              | 3   |      | 30            |
| Tetrachloroethene                                                                                                          | 99               |      | 96                |      | 70-130              | 3   |      | 30            |
| trans-1,3-Dichloropropene                                                                                                  | 90               |      | 91                |      | 70-130              | 1   |      | 30            |
| 1,1,2-Trichloroethane                                                                                                      | 93               |      | 92                |      | 70-130              | 1   |      | 30            |
| Dibromochloromethane                                                                                                       | 101              |      | 100               |      | 70-130              | 1   |      | 30            |
| 1,2-Dibromoethane                                                                                                          | 96               |      | 95                |      | 70-130              | 1   |      | 30            |
| 2-Hexanone                                                                                                                 | 95               |      | 94                |      | 70-130              | 1   |      | 30            |
| Chlorobenzene                                                                                                              | 95               |      | 95                |      | 70-130              | 0   |      | 30            |
| Ethylbenzene                                                                                                               | 86               |      | 85                |      | 70-130              | 1   |      | 30            |
| p/m-Xylene                                                                                                                 | 91               |      | 91                |      | 70-130              | 0   |      | 30            |
| o-Xylene                                                                                                                   | 89               |      | 89                |      | 70-130              | 0   |      | 30            |
| Styrene                                                                                                                    | 92               |      | 92                |      | 70-130              | 0   |      | 30            |
| Bromoform                                                                                                                  | 89               |      | 89                |      | 70-130              | 0   |      | 30            |
| Isopropylbenzene                                                                                                           | 83               |      | 82                |      | 70-130              | 1   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                                                  | 85               |      | 83                |      | 70-130              | 2   |      | 30            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CUY-77-11.21 PID 10573

**Lab Number:** L2301501

**Project Number:** 301525.1000

**Report Date:** 01/18/23

| Parameter                                                                                                                  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02,04-05,07-08 Batch: WG1733735-3 WG1733735-4 |                  |      |                   |      |                     |     |      |               |
| 1,3,5-Trimethylbenzene                                                                                                     | 85               |      | 86                |      | 70-130              | 1   |      | 30            |
| 1,2,4-Trimethylbenzene                                                                                                     | 88               |      | 87                |      | 70-130              | 1   |      | 30            |
| 1,3-Dichlorobenzene                                                                                                        | 96               |      | 96                |      | 70-130              | 0   |      | 30            |
| 1,4-Dichlorobenzene                                                                                                        | 95               |      | 94                |      | 70-130              | 1   |      | 30            |
| 1,2-Dichlorobenzene                                                                                                        | 99               |      | 98                |      | 70-130              | 1   |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                                                | 96               |      | 91                |      | 68-130              | 5   |      | 30            |
| 1,2,4-Trichlorobenzene                                                                                                     | 108              |      | 105               |      | 70-130              | 3   |      | 30            |
| Naphthalene                                                                                                                | 99               |      | 97                |      | 70-130              | 2   |      | 30            |
| 1,2,3-Trichlorobenzene                                                                                                     | 110              |      | 108               |      | 70-130              | 2   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 100              |      | 98                |      | 70-130                 |
| Toluene-d8            | 96               |      | 97                |      | 70-130                 |
| 4-Bromofluorobenzene  | 83               |      | 84                |      | 70-130                 |
| Dibromofluoromethane  | 109              |      | 109               |      | 70-130                 |



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CUY-77-11.21 PID 10573

**Project Number:** 301525.1000

**Lab Number:** L2301501

**Report Date:** 01/18/23

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,06 Batch: WG1733746-3 WG1733746-4 |                  |      |                   |      |                     |     |      |               |
| Dichlorodifluoromethane                                                                                        | 140              |      | 126               |      | 30-146              | 11  |      | 30            |
| Chloromethane                                                                                                  | 152              | Q    | 137               | Q    | 52-130              | 10  |      | 30            |
| Vinyl chloride                                                                                                 | 114              |      | 103               |      | 67-130              | 10  |      | 30            |
| Bromomethane                                                                                                   | 153              | Q    | 140               |      | 57-147              | 9   |      | 30            |
| Chloroethane                                                                                                   | 117              |      | 104               |      | 50-151              | 12  |      | 30            |
| Trichlorofluoromethane                                                                                         | 120              |      | 109               |      | 70-139              | 10  |      | 30            |
| 1,1-Dichloroethene                                                                                             | 107              |      | 97                |      | 65-135              | 10  |      | 30            |
| Carbon disulfide                                                                                               | 63               |      | 57                | Q    | 59-130              | 10  |      | 30            |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane                                                                          | 111              |      | 101               |      | 50-139              | 9   |      | 30            |
| Methylene chloride                                                                                             | 70               |      | 73                |      | 70-130              | 4   |      | 30            |
| Acetone                                                                                                        | 109              |      | 110               |      | 54-140              | 1   |      | 30            |
| trans-1,2-Dichloroethene                                                                                       | 119              |      | 107               |      | 70-130              | 11  |      | 30            |
| Methyl Acetate                                                                                                 | 109              |      | 108               |      | 51-146              | 1   |      | 30            |
| Methyl tert butyl ether                                                                                        | 90               |      | 87                |      | 66-130              | 3   |      | 30            |
| 1,1-Dichloroethane                                                                                             | 108              |      | 101               |      | 70-130              | 7   |      | 30            |
| cis-1,2-Dichloroethene                                                                                         | 106              |      | 100               |      | 70-130              | 6   |      | 30            |
| Cyclohexane                                                                                                    | 123              |      | 112               |      | 59-142              | 9   |      | 30            |
| Bromochloromethane                                                                                             | 115              |      | 108               |      | 70-130              | 6   |      | 30            |
| Chloroform                                                                                                     | 100              |      | 95                |      | 70-130              | 5   |      | 30            |
| Carbon tetrachloride                                                                                           | 117              |      | 108               |      | 70-130              | 8   |      | 30            |
| 1,1,1-Trichloroethane                                                                                          | 113              |      | 103               |      | 70-130              | 9   |      | 30            |
| 2-Butanone                                                                                                     | 104              |      | 101               |      | 70-130              | 3   |      | 30            |
| Benzene                                                                                                        | 101              |      | 94                |      | 70-130              | 7   |      | 30            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CUY-77-11.21 PID 10573

**Lab Number:** L2301501

**Project Number:** 301525.1000

**Report Date:** 01/18/23

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,06 Batch: WG1733746-3 WG1733746-4 |                  |      |                   |      |                     |     |      |               |
| 1,2-Dichloroethane                                                                                             | 100              |      | 96                |      | 70-130              | 4   |      | 30            |
| Methyl cyclohexane                                                                                             | 108              |      | 98                |      | 70-130              | 10  |      | 30            |
| Trichloroethene                                                                                                | 109              |      | 101               |      | 70-130              | 8   |      | 30            |
| 1,2-Dichloropropane                                                                                            | 102              |      | 97                |      | 70-130              | 5   |      | 30            |
| Bromodichloromethane                                                                                           | 98               |      | 95                |      | 70-130              | 3   |      | 30            |
| 1,4-Dioxane                                                                                                    | 100              |      | 99                |      | 65-136              | 1   |      | 30            |
| cis-1,3-Dichloropropene                                                                                        | 101              |      | 96                |      | 70-130              | 5   |      | 30            |
| Toluene                                                                                                        | 95               |      | 88                |      | 70-130              | 8   |      | 30            |
| 4-Methyl-2-pentanone                                                                                           | 90               |      | 86                |      | 70-130              | 5   |      | 30            |
| Tetrachloroethene                                                                                              | 118              |      | 108               |      | 70-130              | 9   |      | 30            |
| trans-1,3-Dichloropropene                                                                                      | 95               |      | 92                |      | 70-130              | 3   |      | 30            |
| 1,1,2-Trichloroethane                                                                                          | 93               |      | 90                |      | 70-130              | 3   |      | 30            |
| Dibromochloromethane                                                                                           | 103              |      | 99                |      | 70-130              | 4   |      | 30            |
| 1,2-Dibromoethane                                                                                              | 98               |      | 95                |      | 70-130              | 3   |      | 30            |
| 2-Hexanone                                                                                                     | 97               |      | 96                |      | 70-130              | 1   |      | 30            |
| Chlorobenzene                                                                                                  | 104              |      | 97                |      | 70-130              | 7   |      | 30            |
| Ethylbenzene                                                                                                   | 98               |      | 91                |      | 70-130              | 7   |      | 30            |
| p/m-Xylene                                                                                                     | 104              |      | 98                |      | 70-130              | 6   |      | 30            |
| o-Xylene                                                                                                       | 100              |      | 94                |      | 70-130              | 6   |      | 30            |
| Styrene                                                                                                        | 101              |      | 94                |      | 70-130              | 7   |      | 30            |
| Bromoform                                                                                                      | 91               |      | 90                |      | 70-130              | 1   |      | 30            |
| Isopropylbenzene                                                                                               | 100              |      | 92                |      | 70-130              | 8   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                                      | 90               |      | 85                |      | 70-130              | 6   |      | 30            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CUY-77-11.21 PID 10573

**Lab Number:** L2301501

**Project Number:** 301525.1000

**Report Date:** 01/18/23

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03,06 Batch: WG1733746-3 WG1733746-4 |                  |      |                   |      |                     |     |      |               |
| 1,3,5-Trimethylbenzene                                                                                         | 101              |      | 94                |      | 70-130              | 7   |      | 30            |
| 1,2,4-Trimethylbenzene                                                                                         | 100              |      | 94                |      | 70-130              | 6   |      | 30            |
| 1,3-Dichlorobenzene                                                                                            | 108              |      | 102               |      | 70-130              | 6   |      | 30            |
| 1,4-Dichlorobenzene                                                                                            | 105              |      | 99                |      | 70-130              | 6   |      | 30            |
| 1,2-Dichlorobenzene                                                                                            | 108              |      | 103               |      | 70-130              | 5   |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                                    | 100              |      | 94                |      | 68-130              | 6   |      | 30            |
| 1,2,4-Trichlorobenzene                                                                                         | 120              |      | 114               |      | 70-130              | 5   |      | 30            |
| Naphthalene                                                                                                    | 103              |      | 100               |      | 70-130              | 3   |      | 30            |
| 1,2,3-Trichlorobenzene                                                                                         | 116              |      | 112               |      | 70-130              | 4   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 98               |      | 99                |      | 70-130                 |
| Toluene-d8            | 95               |      | 95                |      | 70-130                 |
| 4-Bromofluorobenzene  | 85               |      | 84                |      | 70-130                 |
| Dibromofluoromethane  | 106              |      | 107               |      | 70-130                 |

# SEMIVOLATILES



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-01  
**Client ID:** SB-08-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 11:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270E  
**Analytical Date:** 01/15/23 20:26  
**Analyst:** LJG  
**Percent Solids:** 80%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:44

| Parameter                                        | Result | Qualifier | Units | RL    | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |       |       |                 |
| Benzaldehyde                                     | ND     |           | mg/kg | 0.27  | 0.056 | 1               |
| Phenol                                           | ND     |           | mg/kg | 0.21  | 0.031 | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | mg/kg | 0.19  | 0.028 | 1               |
| 2-Chlorophenol                                   | ND     |           | mg/kg | 0.21  | 0.024 | 1               |
| 2-Methylphenol                                   | ND     |           | mg/kg | 0.21  | 0.032 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | mg/kg | 0.25  | 0.035 | 1               |
| Acetophenone                                     | ND     |           | mg/kg | 0.21  | 0.026 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | mg/kg | 0.21  | 0.032 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | mg/kg | 0.30  | 0.032 | 1               |
| Hexachloroethane                                 | ND     |           | mg/kg | 0.16  | 0.034 | 1               |
| Nitrobenzene                                     | ND     |           | mg/kg | 0.19  | 0.031 | 1               |
| Isophorone                                       | ND     |           | mg/kg | 0.19  | 0.027 | 1               |
| 2-Nitrophenol                                    | ND     |           | mg/kg | 0.45  | 0.078 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | mg/kg | 0.21  | 0.068 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | mg/kg | 0.22  | 0.021 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | mg/kg | 0.19  | 0.033 | 1               |
| Naphthalene                                      | ND     |           | mg/kg | 0.041 | 0.025 | 1               |
| 4-Chloroaniline                                  | ND     |           | mg/kg | 0.21  | 0.038 | 1               |
| Hexachlorobutadiene                              | ND     |           | mg/kg | 0.21  | 0.030 | 1               |
| Caprolactam                                      | ND     |           | mg/kg | 0.21  | 0.063 | 1               |
| p-Chloro-m-cresol                                | ND     |           | mg/kg | 0.21  | 0.031 | 1               |
| 2-Methylnaphthalene                              | ND     |           | mg/kg | 0.25  | 0.025 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | mg/kg | 0.59  | 0.19  | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | mg/kg | 0.21  | 0.022 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | mg/kg | 0.12  | 0.039 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | mg/kg | 0.21  | 0.040 | 1               |
| Biphenyl                                         | ND     |           | mg/kg | 0.47  | 0.027 | 1               |
| 2-Chloronaphthalene                              | ND     |           | mg/kg | 0.21  | 0.020 | 1               |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-01**Date Collected:** 01/10/23 11:05**Client ID:** SB-08-08-10**Date Received:** 01/11/23**Sample Location:** Not Specified**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| 2-Nitroaniline                                   | ND     |           | mg/kg | 0.21 | 0.040 | 1               |
| Dimethyl phthalate                               | ND     |           | mg/kg | 0.21 | 0.044 | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | mg/kg | 0.21 | 0.036 | 1               |
| Acenaphthylene                                   | ND     |           | mg/kg | 0.16 | 0.032 | 1               |
| 3-Nitroaniline                                   | ND     |           | mg/kg | 0.21 | 0.039 | 1               |
| Acenaphthene                                     | ND     |           | mg/kg | 0.16 | 0.021 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | mg/kg | 1.0  | 0.097 | 1               |
| 4-Nitrophenol                                    | ND     |           | mg/kg | 0.29 | 0.084 | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | mg/kg | 0.21 | 0.041 | 1               |
| Dibenzofuran                                     | ND     |           | mg/kg | 0.21 | 0.020 | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | mg/kg | 0.21 | 0.042 | 1               |
| Diethyl phthalate                                | ND     |           | mg/kg | 0.21 | 0.019 | 1               |
| Fluorene                                         | ND     |           | mg/kg | 0.21 | 0.020 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | mg/kg | 0.21 | 0.022 | 1               |
| 4-Nitroaniline                                   | ND     |           | mg/kg | 0.21 | 0.086 | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | mg/kg | 0.54 | 0.10  | 1               |
| NDPA/DPA                                         | ND     |           | mg/kg | 0.16 | 0.024 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | mg/kg | 0.21 | 0.032 | 1               |
| Hexachlorobenzene                                | ND     |           | mg/kg | 0.12 | 0.023 | 1               |
| Pentachlorophenol                                | ND     |           | mg/kg | 0.16 | 0.046 | 1               |
| Atrazine                                         | ND     |           | mg/kg | 0.16 | 0.072 | 1               |
| Phenanthrene                                     | ND     |           | mg/kg | 0.12 | 0.025 | 1               |
| Anthracene                                       | ND     |           | mg/kg | 0.12 | 0.040 | 1               |
| Carbazole                                        | ND     |           | mg/kg | 0.21 | 0.020 | 1               |
| Di-n-butylphthalate                              | ND     |           | mg/kg | 0.21 | 0.039 | 1               |
| Fluoranthene                                     | ND     |           | mg/kg | 0.12 | 0.024 | 1               |
| Pyrene                                           | ND     |           | mg/kg | 0.12 | 0.021 | 1               |
| Butyl benzyl phthalate                           | ND     |           | mg/kg | 0.21 | 0.052 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | mg/kg | 0.21 | 0.055 | 1               |
| Benzo(a)anthracene                               | ND     |           | mg/kg | 0.12 | 0.023 | 1               |
| Chrysene                                         | ND     |           | mg/kg | 0.12 | 0.022 | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | mg/kg | 0.21 | 0.072 | 1               |
| Di-n-octylphthalate                              | ND     |           | mg/kg | 0.21 | 0.070 | 1               |
| Benzo(b)fluoranthene                             | ND     |           | mg/kg | 0.12 | 0.035 | 1               |
| Benzo(k)fluoranthene                             | ND     |           | mg/kg | 0.12 | 0.033 | 1               |
| Benzo(a)pyrene                                   | ND     |           | mg/kg | 0.16 | 0.050 | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | mg/kg | 0.16 | 0.029 | 1               |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-01**Date Collected:** 01/10/23 11:05**Client ID:** SB-08-08-10**Date Received:** 01/11/23**Sample Location:** Not Specified**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| Dibenzo(a,h)anthracene                           | ND     |           | mg/kg | 0.12 | 0.024 | 1               |
| Benzo(ghi)perylene                               | ND     |           | mg/kg | 0.16 | 0.024 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 68         |           | 25-120              |
| Phenol-d6            | 67         |           | 10-120              |
| Nitrobenzene-d5      | 63         |           | 23-120              |
| 2-Fluorobiphenyl     | 68         |           | 30-120              |
| 2,4,6-Tribromophenol | 51         |           | 10-136              |
| 4-Terphenyl-d14      | 71         |           | 18-120              |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-02  
**Client ID:** SB-07-03-05  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 11:35  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270E  
**Analytical Date:** 01/15/23 20:49  
**Analyst:** LJG  
**Percent Solids:** 84%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:44

| Parameter                                        | Result | Qualifier | Units | RL    | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |       |       |                 |
| Benzaldehyde                                     | ND     |           | mg/kg | 0.26  | 0.053 | 1               |
| Phenol                                           | ND     |           | mg/kg | 0.20  | 0.030 | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | mg/kg | 0.18  | 0.027 | 1               |
| 2-Chlorophenol                                   | ND     |           | mg/kg | 0.20  | 0.023 | 1               |
| 2-Methylphenol                                   | ND     |           | mg/kg | 0.20  | 0.030 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | mg/kg | 0.24  | 0.034 | 1               |
| Acetophenone                                     | ND     |           | mg/kg | 0.20  | 0.024 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | mg/kg | 0.20  | 0.030 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | mg/kg | 0.28  | 0.031 | 1               |
| Hexachloroethane                                 | ND     |           | mg/kg | 0.16  | 0.032 | 1               |
| Nitrobenzene                                     | ND     |           | mg/kg | 0.18  | 0.029 | 1               |
| Isophorone                                       | ND     |           | mg/kg | 0.18  | 0.026 | 1               |
| 2-Nitrophenol                                    | ND     |           | mg/kg | 0.42  | 0.074 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | mg/kg | 0.20  | 0.065 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | mg/kg | 0.21  | 0.020 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | mg/kg | 0.18  | 0.032 | 1               |
| Naphthalene                                      | ND     |           | mg/kg | 0.039 | 0.024 | 1               |
| 4-Chloroaniline                                  | ND     |           | mg/kg | 0.20  | 0.036 | 1               |
| Hexachlorobutadiene                              | ND     |           | mg/kg | 0.20  | 0.029 | 1               |
| Caprolactam                                      | ND     |           | mg/kg | 0.20  | 0.060 | 1               |
| p-Chloro-m-cresol                                | ND     |           | mg/kg | 0.20  | 0.029 | 1               |
| 2-Methylnaphthalene                              | ND     |           | mg/kg | 0.24  | 0.024 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | mg/kg | 0.56  | 0.18  | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | mg/kg | 0.20  | 0.020 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | mg/kg | 0.12  | 0.037 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | mg/kg | 0.20  | 0.038 | 1               |
| Biphenyl                                         | ND     |           | mg/kg | 0.45  | 0.026 | 1               |
| 2-Chloronaphthalene                              | ND     |           | mg/kg | 0.20  | 0.020 | 1               |



**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-02**Date Collected:** 01/10/23 11:35**Client ID:** SB-07-03-05**Date Received:** 01/11/23**Sample Location:** Not Specified**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| 2-Nitroaniline                                   | ND     |           | mg/kg | 0.20 | 0.038 | 1               |
| Dimethyl phthalate                               | ND     |           | mg/kg | 0.20 | 0.041 | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | mg/kg | 0.20 | 0.034 | 1               |
| Acenaphthylene                                   | ND     |           | mg/kg | 0.16 | 0.030 | 1               |
| 3-Nitroaniline                                   | ND     |           | mg/kg | 0.20 | 0.037 | 1               |
| Acenaphthene                                     | ND     |           | mg/kg | 0.16 | 0.020 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | mg/kg | 0.94 | 0.092 | 1               |
| 4-Nitrophenol                                    | ND     |           | mg/kg | 0.28 | 0.080 | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | mg/kg | 0.20 | 0.039 | 1               |
| Dibenzofuran                                     | ND     |           | mg/kg | 0.20 | 0.019 | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | mg/kg | 0.20 | 0.040 | 1               |
| Diethyl phthalate                                | ND     |           | mg/kg | 0.20 | 0.018 | 1               |
| Fluorene                                         | ND     |           | mg/kg | 0.20 | 0.019 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | mg/kg | 0.20 | 0.021 | 1               |
| 4-Nitroaniline                                   | ND     |           | mg/kg | 0.20 | 0.082 | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | mg/kg | 0.51 | 0.094 | 1               |
| NDPA/DPA                                         | ND     |           | mg/kg | 0.16 | 0.022 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | mg/kg | 0.20 | 0.030 | 1               |
| Hexachlorobenzene                                | ND     |           | mg/kg | 0.12 | 0.022 | 1               |
| Pentachlorophenol                                | ND     |           | mg/kg | 0.16 | 0.043 | 1               |
| Atrazine                                         | ND     |           | mg/kg | 0.16 | 0.069 | 1               |
| Phenanthrene                                     | ND     |           | mg/kg | 0.12 | 0.024 | 1               |
| Anthracene                                       | ND     |           | mg/kg | 0.12 | 0.038 | 1               |
| Carbazole                                        | ND     |           | mg/kg | 0.20 | 0.019 | 1               |
| Di-n-butylphthalate                              | ND     |           | mg/kg | 0.20 | 0.037 | 1               |
| Fluoranthene                                     | ND     |           | mg/kg | 0.12 | 0.023 | 1               |
| Pyrene                                           | ND     |           | mg/kg | 0.12 | 0.020 | 1               |
| Butyl benzyl phthalate                           | ND     |           | mg/kg | 0.20 | 0.050 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | mg/kg | 0.20 | 0.052 | 1               |
| Benzo(a)anthracene                               | ND     |           | mg/kg | 0.12 | 0.022 | 1               |
| Chrysene                                         | ND     |           | mg/kg | 0.12 | 0.020 | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | mg/kg | 0.20 | 0.068 | 1               |
| Di-n-octylphthalate                              | ND     |           | mg/kg | 0.20 | 0.067 | 1               |
| Benzo(b)fluoranthene                             | ND     |           | mg/kg | 0.12 | 0.033 | 1               |
| Benzo(k)fluoranthene                             | ND     |           | mg/kg | 0.12 | 0.032 | 1               |
| Benzo(a)pyrene                                   | ND     |           | mg/kg | 0.16 | 0.048 | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | mg/kg | 0.16 | 0.027 | 1               |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-02**Date Collected:** 01/10/23 11:35**Client ID:** SB-07-03-05**Date Received:** 01/11/23**Sample Location:** Not Specified**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| Dibenzo(a,h)anthracene                           | ND     |           | mg/kg | 0.12 | 0.023 | 1               |
| Benzo(ghi)perylene                               | ND     |           | mg/kg | 0.16 | 0.023 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 64         |           | 25-120              |
| Phenol-d6            | 64         |           | 10-120              |
| Nitrobenzene-d5      | 62         |           | 23-120              |
| 2-Fluorobiphenyl     | 66         |           | 30-120              |
| 2,4,6-Tribromophenol | 60         |           | 10-136              |
| 4-Terphenyl-d14      | 72         |           | 18-120              |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-03  
**Client ID:** SB-06-00-02  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270E  
**Analytical Date:** 01/15/23 21:13  
**Analyst:** LJG  
**Percent Solids:** 85%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:44

| Parameter                                        | Result | Qualifier | Units | RL    | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |       |       |                 |
| Benzaldehyde                                     | ND     |           | mg/kg | 0.25  | 0.052 | 1               |
| Phenol                                           | ND     |           | mg/kg | 0.19  | 0.029 | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | mg/kg | 0.17  | 0.026 | 1               |
| 2-Chlorophenol                                   | ND     |           | mg/kg | 0.19  | 0.023 | 1               |
| 2-Methylphenol                                   | ND     |           | mg/kg | 0.19  | 0.030 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | mg/kg | 0.23  | 0.033 | 1               |
| Acetophenone                                     | 0.14   | J         | mg/kg | 0.19  | 0.024 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | mg/kg | 0.19  | 0.030 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | mg/kg | 0.28  | 0.030 | 1               |
| Hexachloroethane                                 | ND     |           | mg/kg | 0.15  | 0.031 | 1               |
| Nitrobenzene                                     | ND     |           | mg/kg | 0.17  | 0.028 | 1               |
| Isophorone                                       | ND     |           | mg/kg | 0.17  | 0.025 | 1               |
| 2-Nitrophenol                                    | ND     |           | mg/kg | 0.42  | 0.072 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | mg/kg | 0.19  | 0.064 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | mg/kg | 0.21  | 0.019 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | mg/kg | 0.17  | 0.031 | 1               |
| Naphthalene                                      | 0.96   |           | mg/kg | 0.038 | 0.023 | 1               |
| 4-Chloroaniline                                  | ND     |           | mg/kg | 0.19  | 0.035 | 1               |
| Hexachlorobutadiene                              | ND     |           | mg/kg | 0.19  | 0.028 | 1               |
| Caprolactam                                      | ND     |           | mg/kg | 0.19  | 0.058 | 1               |
| p-Chloro-m-cresol                                | ND     |           | mg/kg | 0.19  | 0.029 | 1               |
| 2-Methylnaphthalene                              | 1.4    |           | mg/kg | 0.23  | 0.023 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | mg/kg | 0.55  | 0.17  | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | mg/kg | 0.19  | 0.020 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | mg/kg | 0.12  | 0.036 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | mg/kg | 0.19  | 0.037 | 1               |
| Biphenyl                                         | 0.18   | J         | mg/kg | 0.44  | 0.025 | 1               |
| 2-Chloronaphthalene                              | ND     |           | mg/kg | 0.19  | 0.019 | 1               |

Project Name: CUY-77-11.21 PID 10573

Lab Number: L2301501

Project Number: 301525.1000

Report Date: 01/18/23

## SAMPLE RESULTS

Lab ID: L2301501-03

Date Collected: 01/10/23 12:05

Client ID: SB-06-00-02

Date Received: 01/11/23

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| 2-Nitroaniline                                   | ND     |           | mg/kg | 0.19 | 0.037 | 1               |
| Dimethyl phthalate                               | ND     |           | mg/kg | 0.19 | 0.040 | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | mg/kg | 0.19 | 0.033 | 1               |
| Acenaphthylene                                   | 0.19   |           | mg/kg | 0.15 | 0.030 | 1               |
| 3-Nitroaniline                                   | ND     |           | mg/kg | 0.19 | 0.036 | 1               |
| Acenaphthene                                     | 0.12   | J         | mg/kg | 0.15 | 0.020 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | mg/kg | 0.92 | 0.090 | 1               |
| 4-Nitrophenol                                    | ND     |           | mg/kg | 0.27 | 0.078 | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | mg/kg | 0.19 | 0.038 | 1               |
| Dibenzofuran                                     | 0.39   |           | mg/kg | 0.19 | 0.018 | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | mg/kg | 0.19 | 0.039 | 1               |
| Diethyl phthalate                                | ND     |           | mg/kg | 0.19 | 0.018 | 1               |
| Fluorene                                         | 0.13   | J         | mg/kg | 0.19 | 0.019 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | mg/kg | 0.19 | 0.021 | 1               |
| 4-Nitroaniline                                   | ND     |           | mg/kg | 0.19 | 0.080 | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | mg/kg | 0.50 | 0.092 | 1               |
| NDPA/DPA                                         | ND     |           | mg/kg | 0.15 | 0.022 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | mg/kg | 0.19 | 0.029 | 1               |
| Hexachlorobenzene                                | ND     |           | mg/kg | 0.12 | 0.022 | 1               |
| Pentachlorophenol                                | ND     |           | mg/kg | 0.15 | 0.042 | 1               |
| Atrazine                                         | ND     |           | mg/kg | 0.15 | 0.067 | 1               |
| Phenanthrene                                     | 2.2    |           | mg/kg | 0.12 | 0.023 | 1               |
| Anthracene                                       | 0.37   |           | mg/kg | 0.12 | 0.038 | 1               |
| Carbazole                                        | 0.24   |           | mg/kg | 0.19 | 0.019 | 1               |
| Di-n-butylphthalate                              | ND     |           | mg/kg | 0.19 | 0.036 | 1               |
| Fluoranthene                                     | 3.6    |           | mg/kg | 0.12 | 0.022 | 1               |
| Pyrene                                           | 3.3    |           | mg/kg | 0.12 | 0.019 | 1               |
| Butyl benzyl phthalate                           | ND     |           | mg/kg | 0.19 | 0.048 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | mg/kg | 0.19 | 0.051 | 1               |
| Benzo(a)anthracene                               | 2.2    |           | mg/kg | 0.12 | 0.022 | 1               |
| Chrysene                                         | 2.7    |           | mg/kg | 0.12 | 0.020 | 1               |
| Bis(2-ethylhexyl)phthalate                       | 0.067  | J         | mg/kg | 0.19 | 0.067 | 1               |
| Di-n-octylphthalate                              | ND     |           | mg/kg | 0.19 | 0.065 | 1               |
| Benzo(b)fluoranthene                             | 4.3    |           | mg/kg | 0.12 | 0.032 | 1               |
| Benzo(k)fluoranthene                             | 1.2    |           | mg/kg | 0.12 | 0.031 | 1               |
| Benzo(a)pyrene                                   | 3.3    |           | mg/kg | 0.15 | 0.047 | 1               |
| Indeno(1,2,3-cd)pyrene                           | 2.4    |           | mg/kg | 0.15 | 0.027 | 1               |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-03  
**Client ID:** SB-06-00-02  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| Dibenzo(a,h)anthracene                           | 0.49   |           | mg/kg | 0.12 | 0.022 | 1               |
| Benzo(ghi)perylene                               | 2.1    |           | mg/kg | 0.15 | 0.023 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 58         |           | 25-120              |
| Phenol-d6            | 59         |           | 10-120              |
| Nitrobenzene-d5      | 68         |           | 23-120              |
| 2-Fluorobiphenyl     | 70         |           | 30-120              |
| 2,4,6-Tribromophenol | 51         |           | 10-136              |
| 4-Terphenyl-d14      | 72         |           | 18-120              |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-04  
**Client ID:** SB-05-07-09  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:30  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270E  
**Analytical Date:** 01/15/23 21:36  
**Analyst:** LJG  
**Percent Solids:** 86%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:44

| Parameter                                        | Result | Qualifier | Units | RL    | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |       |       |                 |
| Benzaldehyde                                     | ND     |           | mg/kg | 0.25  | 0.051 | 1               |
| Phenol                                           | ND     |           | mg/kg | 0.19  | 0.029 | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | mg/kg | 0.17  | 0.026 | 1               |
| 2-Chlorophenol                                   | ND     |           | mg/kg | 0.19  | 0.022 | 1               |
| 2-Methylphenol                                   | ND     |           | mg/kg | 0.19  | 0.029 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | mg/kg | 0.23  | 0.032 | 1               |
| Acetophenone                                     | ND     |           | mg/kg | 0.19  | 0.024 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | mg/kg | 0.19  | 0.029 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | mg/kg | 0.27  | 0.030 | 1               |
| Hexachloroethane                                 | ND     |           | mg/kg | 0.15  | 0.031 | 1               |
| Nitrobenzene                                     | ND     |           | mg/kg | 0.17  | 0.028 | 1               |
| Isophorone                                       | ND     |           | mg/kg | 0.17  | 0.025 | 1               |
| 2-Nitrophenol                                    | ND     |           | mg/kg | 0.41  | 0.072 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | mg/kg | 0.19  | 0.063 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | mg/kg | 0.20  | 0.019 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | mg/kg | 0.17  | 0.030 | 1               |
| Naphthalene                                      | ND     |           | mg/kg | 0.038 | 0.023 | 1               |
| 4-Chloroaniline                                  | ND     |           | mg/kg | 0.19  | 0.035 | 1               |
| Hexachlorobutadiene                              | ND     |           | mg/kg | 0.19  | 0.028 | 1               |
| Caprolactam                                      | ND     |           | mg/kg | 0.19  | 0.058 | 1               |
| p-Chloro-m-cresol                                | ND     |           | mg/kg | 0.19  | 0.028 | 1               |
| 2-Methylnaphthalene                              | 0.034  | J         | mg/kg | 0.23  | 0.023 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | mg/kg | 0.54  | 0.17  | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | mg/kg | 0.19  | 0.020 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | mg/kg | 0.11  | 0.036 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | mg/kg | 0.19  | 0.036 | 1               |
| Biphenyl                                         | ND     |           | mg/kg | 0.43  | 0.025 | 1               |
| 2-Chloronaphthalene                              | ND     |           | mg/kg | 0.19  | 0.019 | 1               |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-04**Date Collected:** 01/10/23 12:30**Client ID:** SB-05-07-09**Date Received:** 01/11/23**Sample Location:** Not Specified**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| 2-Nitroaniline                                   | ND     |           | mg/kg | 0.19 | 0.037 | 1               |
| Dimethyl phthalate                               | ND     |           | mg/kg | 0.19 | 0.040 | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | mg/kg | 0.19 | 0.033 | 1               |
| Acenaphthylene                                   | ND     |           | mg/kg | 0.15 | 0.029 | 1               |
| 3-Nitroaniline                                   | ND     |           | mg/kg | 0.19 | 0.036 | 1               |
| Acenaphthene                                     | ND     |           | mg/kg | 0.15 | 0.020 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | mg/kg | 0.91 | 0.089 | 1               |
| 4-Nitrophenol                                    | ND     |           | mg/kg | 0.27 | 0.078 | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | mg/kg | 0.19 | 0.038 | 1               |
| Dibenzofuran                                     | ND     |           | mg/kg | 0.19 | 0.018 | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | mg/kg | 0.19 | 0.038 | 1               |
| Diethyl phthalate                                | ND     |           | mg/kg | 0.19 | 0.018 | 1               |
| Fluorene                                         | ND     |           | mg/kg | 0.19 | 0.018 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | mg/kg | 0.19 | 0.020 | 1               |
| 4-Nitroaniline                                   | ND     |           | mg/kg | 0.19 | 0.079 | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | mg/kg | 0.49 | 0.091 | 1               |
| NDPA/DPA                                         | ND     |           | mg/kg | 0.15 | 0.022 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | mg/kg | 0.19 | 0.029 | 1               |
| Hexachlorobenzene                                | ND     |           | mg/kg | 0.11 | 0.021 | 1               |
| Pentachlorophenol                                | ND     |           | mg/kg | 0.15 | 0.042 | 1               |
| Atrazine                                         | ND     |           | mg/kg | 0.15 | 0.066 | 1               |
| Phenanthrene                                     | ND     |           | mg/kg | 0.11 | 0.023 | 1               |
| Anthracene                                       | ND     |           | mg/kg | 0.11 | 0.037 | 1               |
| Carbazole                                        | ND     |           | mg/kg | 0.19 | 0.018 | 1               |
| Di-n-butylphthalate                              | ND     |           | mg/kg | 0.19 | 0.036 | 1               |
| Fluoranthene                                     | ND     |           | mg/kg | 0.11 | 0.022 | 1               |
| Pyrene                                           | ND     |           | mg/kg | 0.11 | 0.019 | 1               |
| Butyl benzyl phthalate                           | ND     |           | mg/kg | 0.19 | 0.048 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | mg/kg | 0.19 | 0.051 | 1               |
| Benzo(a)anthracene                               | ND     |           | mg/kg | 0.11 | 0.021 | 1               |
| Chrysene                                         | ND     |           | mg/kg | 0.11 | 0.020 | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | mg/kg | 0.19 | 0.066 | 1               |
| Di-n-octylphthalate                              | ND     |           | mg/kg | 0.19 | 0.065 | 1               |
| Benzo(b)fluoranthene                             | ND     |           | mg/kg | 0.11 | 0.032 | 1               |
| Benzo(k)fluoranthene                             | ND     |           | mg/kg | 0.11 | 0.030 | 1               |
| Benzo(a)pyrene                                   | ND     |           | mg/kg | 0.15 | 0.046 | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | mg/kg | 0.15 | 0.026 | 1               |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-04  
**Client ID:** SB-05-07-09  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:30  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| Dibenzo(a,h)anthracene                           | ND     |           | mg/kg | 0.11 | 0.022 | 1               |
| Benzo(ghi)perylene                               | ND     |           | mg/kg | 0.15 | 0.022 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 64         |           | 25-120              |
| Phenol-d6            | 64         |           | 10-120              |
| Nitrobenzene-d5      | 63         |           | 23-120              |
| 2-Fluorobiphenyl     | 66         |           | 30-120              |
| 2,4,6-Tribromophenol | 54         |           | 10-136              |
| 4-Terphenyl-d14      | 67         |           | 18-120              |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-05  
**Client ID:** SB-04-02-04  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:55  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270E  
**Analytical Date:** 01/15/23 22:00  
**Analyst:** LJG  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:44

| Parameter                                        | Result | Qualifier | Units | RL    | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |       |       |                 |
| Benzaldehyde                                     | ND     |           | mg/kg | 0.26  | 0.053 | 1               |
| Phenol                                           | ND     |           | mg/kg | 0.20  | 0.030 | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | mg/kg | 0.18  | 0.027 | 1               |
| 2-Chlorophenol                                   | ND     |           | mg/kg | 0.20  | 0.023 | 1               |
| 2-Methylphenol                                   | ND     |           | mg/kg | 0.20  | 0.030 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | mg/kg | 0.24  | 0.034 | 1               |
| Acetophenone                                     | ND     |           | mg/kg | 0.20  | 0.024 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | mg/kg | 0.20  | 0.030 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | mg/kg | 0.28  | 0.031 | 1               |
| Hexachloroethane                                 | ND     |           | mg/kg | 0.16  | 0.032 | 1               |
| Nitrobenzene                                     | ND     |           | mg/kg | 0.18  | 0.029 | 1               |
| Isophorone                                       | ND     |           | mg/kg | 0.18  | 0.026 | 1               |
| 2-Nitrophenol                                    | ND     |           | mg/kg | 0.42  | 0.074 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | mg/kg | 0.20  | 0.065 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | mg/kg | 0.21  | 0.020 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | mg/kg | 0.18  | 0.032 | 1               |
| Naphthalene                                      | ND     |           | mg/kg | 0.039 | 0.024 | 1               |
| 4-Chloroaniline                                  | ND     |           | mg/kg | 0.20  | 0.036 | 1               |
| Hexachlorobutadiene                              | ND     |           | mg/kg | 0.20  | 0.029 | 1               |
| Caprolactam                                      | ND     |           | mg/kg | 0.20  | 0.060 | 1               |
| p-Chloro-m-cresol                                | ND     |           | mg/kg | 0.20  | 0.029 | 1               |
| 2-Methylnaphthalene                              | ND     |           | mg/kg | 0.24  | 0.024 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | mg/kg | 0.56  | 0.18  | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | mg/kg | 0.20  | 0.020 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | mg/kg | 0.12  | 0.037 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | mg/kg | 0.20  | 0.038 | 1               |
| Biphenyl                                         | ND     |           | mg/kg | 0.45  | 0.026 | 1               |
| 2-Chloronaphthalene                              | ND     |           | mg/kg | 0.20  | 0.020 | 1               |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-05**Date Collected:** 01/10/23 12:55**Client ID:** SB-04-02-04**Date Received:** 01/11/23**Sample Location:** Not Specified**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| 2-Nitroaniline                                   | ND     |           | mg/kg | 0.20 | 0.038 | 1               |
| Dimethyl phthalate                               | ND     |           | mg/kg | 0.20 | 0.041 | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | mg/kg | 0.20 | 0.034 | 1               |
| Acenaphthylene                                   | ND     |           | mg/kg | 0.16 | 0.030 | 1               |
| 3-Nitroaniline                                   | ND     |           | mg/kg | 0.20 | 0.037 | 1               |
| Acenaphthene                                     | ND     |           | mg/kg | 0.16 | 0.020 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | mg/kg | 0.94 | 0.092 | 1               |
| 4-Nitrophenol                                    | ND     |           | mg/kg | 0.28 | 0.080 | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | mg/kg | 0.20 | 0.039 | 1               |
| Dibenzofuran                                     | ND     |           | mg/kg | 0.20 | 0.019 | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | mg/kg | 0.20 | 0.040 | 1               |
| Diethyl phthalate                                | ND     |           | mg/kg | 0.20 | 0.018 | 1               |
| Fluorene                                         | ND     |           | mg/kg | 0.20 | 0.019 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | mg/kg | 0.20 | 0.021 | 1               |
| 4-Nitroaniline                                   | ND     |           | mg/kg | 0.20 | 0.081 | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | mg/kg | 0.51 | 0.094 | 1               |
| NDPA/DPA                                         | ND     |           | mg/kg | 0.16 | 0.022 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | mg/kg | 0.20 | 0.030 | 1               |
| Hexachlorobenzene                                | ND     |           | mg/kg | 0.12 | 0.022 | 1               |
| Pentachlorophenol                                | ND     |           | mg/kg | 0.16 | 0.043 | 1               |
| Atrazine                                         | ND     |           | mg/kg | 0.16 | 0.069 | 1               |
| Phenanthrene                                     | ND     |           | mg/kg | 0.12 | 0.024 | 1               |
| Anthracene                                       | ND     |           | mg/kg | 0.12 | 0.038 | 1               |
| Carbazole                                        | ND     |           | mg/kg | 0.20 | 0.019 | 1               |
| Di-n-butylphthalate                              | ND     |           | mg/kg | 0.20 | 0.037 | 1               |
| Fluoranthene                                     | ND     |           | mg/kg | 0.12 | 0.022 | 1               |
| Pyrene                                           | ND     |           | mg/kg | 0.12 | 0.020 | 1               |
| Butyl benzyl phthalate                           | ND     |           | mg/kg | 0.20 | 0.050 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | mg/kg | 0.20 | 0.052 | 1               |
| Benzo(a)anthracene                               | ND     |           | mg/kg | 0.12 | 0.022 | 1               |
| Chrysene                                         | ND     |           | mg/kg | 0.12 | 0.020 | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | mg/kg | 0.20 | 0.068 | 1               |
| Di-n-octylphthalate                              | ND     |           | mg/kg | 0.20 | 0.067 | 1               |
| Benzo(b)fluoranthene                             | ND     |           | mg/kg | 0.12 | 0.033 | 1               |
| Benzo(k)fluoranthene                             | ND     |           | mg/kg | 0.12 | 0.031 | 1               |
| Benzo(a)pyrene                                   | ND     |           | mg/kg | 0.16 | 0.048 | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | mg/kg | 0.16 | 0.027 | 1               |



**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-05**Date Collected:** 01/10/23 12:55**Client ID:** SB-04-02-04**Date Received:** 01/11/23**Sample Location:** Not Specified**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| Dibenzo(a,h)anthracene                           | ND     |           | mg/kg | 0.12 | 0.023 | 1               |
| Benzo(ghi)perylene                               | ND     |           | mg/kg | 0.16 | 0.023 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 65         |           | 25-120              |
| Phenol-d6            | 64         |           | 10-120              |
| Nitrobenzene-d5      | 60         |           | 23-120              |
| 2-Fluorobiphenyl     | 65         |           | 30-120              |
| 2,4,6-Tribromophenol | 46         |           | 10-136              |
| 4-Terphenyl-d14      | 69         |           | 18-120              |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-06  
**Client ID:** SB-03-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 13:10  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270E  
**Analytical Date:** 01/15/23 22:24  
**Analyst:** LJG  
**Percent Solids:** 87%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:44

| Parameter                                        | Result | Qualifier | Units | RL    | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |       |       |                 |
| Benzaldehyde                                     | ND     |           | mg/kg | 0.25  | 0.051 | 1               |
| Phenol                                           | ND     |           | mg/kg | 0.19  | 0.028 | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | mg/kg | 0.17  | 0.026 | 1               |
| 2-Chlorophenol                                   | ND     |           | mg/kg | 0.19  | 0.022 | 1               |
| 2-Methylphenol                                   | ND     |           | mg/kg | 0.19  | 0.029 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | mg/kg | 0.23  | 0.032 | 1               |
| Acetophenone                                     | ND     |           | mg/kg | 0.19  | 0.023 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | mg/kg | 0.19  | 0.029 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | mg/kg | 0.27  | 0.030 | 1               |
| Hexachloroethane                                 | ND     |           | mg/kg | 0.15  | 0.030 | 1               |
| Nitrobenzene                                     | ND     |           | mg/kg | 0.17  | 0.028 | 1               |
| Isophorone                                       | ND     |           | mg/kg | 0.17  | 0.024 | 1               |
| 2-Nitrophenol                                    | ND     |           | mg/kg | 0.41  | 0.071 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | mg/kg | 0.19  | 0.062 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | mg/kg | 0.20  | 0.019 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | mg/kg | 0.17  | 0.030 | 1               |
| Naphthalene                                      | 0.11   |           | mg/kg | 0.038 | 0.023 | 1               |
| 4-Chloroaniline                                  | ND     |           | mg/kg | 0.19  | 0.034 | 1               |
| Hexachlorobutadiene                              | ND     |           | mg/kg | 0.19  | 0.028 | 1               |
| Caprolactam                                      | ND     |           | mg/kg | 0.19  | 0.057 | 1               |
| p-Chloro-m-cresol                                | ND     |           | mg/kg | 0.19  | 0.028 | 1               |
| 2-Methylnaphthalene                              | 0.13   | J         | mg/kg | 0.23  | 0.023 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | mg/kg | 0.54  | 0.17  | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | mg/kg | 0.19  | 0.020 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | mg/kg | 0.11  | 0.036 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | mg/kg | 0.19  | 0.036 | 1               |
| Biphenyl                                         | ND     |           | mg/kg | 0.43  | 0.024 | 1               |
| 2-Chloronaphthalene                              | ND     |           | mg/kg | 0.19  | 0.019 | 1               |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-06**Date Collected:** 01/10/23 13:10**Client ID:** SB-03-08-10**Date Received:** 01/11/23**Sample Location:** Not Specified**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| 2-Nitroaniline                                   | ND     |           | mg/kg | 0.19 | 0.036 | 1               |
| Dimethyl phthalate                               | ND     |           | mg/kg | 0.19 | 0.040 | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | mg/kg | 0.19 | 0.032 | 1               |
| Acenaphthylene                                   | ND     |           | mg/kg | 0.15 | 0.029 | 1               |
| 3-Nitroaniline                                   | ND     |           | mg/kg | 0.19 | 0.036 | 1               |
| Acenaphthene                                     | ND     |           | mg/kg | 0.15 | 0.020 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | mg/kg | 0.90 | 0.088 | 1               |
| 4-Nitrophenol                                    | ND     |           | mg/kg | 0.26 | 0.077 | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | mg/kg | 0.19 | 0.038 | 1               |
| Dibenzofuran                                     | 0.028  | J         | mg/kg | 0.19 | 0.018 | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | mg/kg | 0.19 | 0.038 | 1               |
| Diethyl phthalate                                | ND     |           | mg/kg | 0.19 | 0.017 | 1               |
| Fluorene                                         | ND     |           | mg/kg | 0.19 | 0.018 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | mg/kg | 0.19 | 0.020 | 1               |
| 4-Nitroaniline                                   | ND     |           | mg/kg | 0.19 | 0.078 | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | mg/kg | 0.49 | 0.090 | 1               |
| NDPA/DPA                                         | ND     |           | mg/kg | 0.15 | 0.021 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | mg/kg | 0.19 | 0.029 | 1               |
| Hexachlorobenzene                                | ND     |           | mg/kg | 0.11 | 0.021 | 1               |
| Pentachlorophenol                                | ND     |           | mg/kg | 0.15 | 0.042 | 1               |
| Atrazine                                         | ND     |           | mg/kg | 0.15 | 0.066 | 1               |
| Phenanthrene                                     | 0.062  | J         | mg/kg | 0.11 | 0.023 | 1               |
| Anthracene                                       | ND     |           | mg/kg | 0.11 | 0.037 | 1               |
| Carbazole                                        | ND     |           | mg/kg | 0.19 | 0.018 | 1               |
| Di-n-butylphthalate                              | ND     |           | mg/kg | 0.19 | 0.036 | 1               |
| Fluoranthene                                     | 0.043  | J         | mg/kg | 0.11 | 0.022 | 1               |
| Pyrene                                           | 0.043  | J         | mg/kg | 0.11 | 0.019 | 1               |
| Butyl benzyl phthalate                           | ND     |           | mg/kg | 0.19 | 0.048 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | mg/kg | 0.19 | 0.050 | 1               |
| Benzo(a)anthracene                               | 0.035  | J         | mg/kg | 0.11 | 0.021 | 1               |
| Chrysene                                         | 0.034  | J         | mg/kg | 0.11 | 0.020 | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | mg/kg | 0.19 | 0.065 | 1               |
| Di-n-octylphthalate                              | ND     |           | mg/kg | 0.19 | 0.064 | 1               |
| Benzo(b)fluoranthene                             | 0.039  | J         | mg/kg | 0.11 | 0.032 | 1               |
| Benzo(k)fluoranthene                             | ND     |           | mg/kg | 0.11 | 0.030 | 1               |
| Benzo(a)pyrene                                   | ND     |           | mg/kg | 0.15 | 0.046 | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | mg/kg | 0.15 | 0.026 | 1               |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS**

Lab ID: L2301501-06

Date Collected: 01/10/23 13:10

Client ID: SB-03-08-10

Date Received: 01/11/23

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| Dibenzo(a,h)anthracene                           | ND     |           | mg/kg | 0.11 | 0.022 | 1               |
| Benzo(ghi)perylene                               | ND     |           | mg/kg | 0.15 | 0.022 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 35         |           | 25-120              |
| Phenol-d6            | 37         |           | 10-120              |
| Nitrobenzene-d5      | 52         |           | 23-120              |
| 2-Fluorobiphenyl     | 57         |           | 30-120              |
| 2,4,6-Tribromophenol | 42         |           | 10-136              |
| 4-Terphenyl-d14      | 60         |           | 18-120              |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-07  
**Client ID:** SB-02-00-02  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 13:35  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270E  
**Analytical Date:** 01/15/23 22:48  
**Analyst:** LJG  
**Percent Solids:** 88%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:44

| Parameter                                        | Result | Qualifier | Units | RL    | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |       |       |                 |
| Benzaldehyde                                     | ND     |           | mg/kg | 0.25  | 0.051 | 1               |
| Phenol                                           | ND     |           | mg/kg | 0.19  | 0.028 | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | mg/kg | 0.17  | 0.026 | 1               |
| 2-Chlorophenol                                   | ND     |           | mg/kg | 0.19  | 0.022 | 1               |
| 2-Methylphenol                                   | ND     |           | mg/kg | 0.19  | 0.029 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | mg/kg | 0.23  | 0.032 | 1               |
| Acetophenone                                     | 0.086  | J         | mg/kg | 0.19  | 0.023 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | mg/kg | 0.19  | 0.029 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | mg/kg | 0.27  | 0.030 | 1               |
| Hexachloroethane                                 | ND     |           | mg/kg | 0.15  | 0.030 | 1               |
| Nitrobenzene                                     | ND     |           | mg/kg | 0.17  | 0.028 | 1               |
| Isophorone                                       | ND     |           | mg/kg | 0.17  | 0.024 | 1               |
| 2-Nitrophenol                                    | ND     |           | mg/kg | 0.41  | 0.071 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | mg/kg | 0.19  | 0.062 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | mg/kg | 0.20  | 0.019 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | mg/kg | 0.17  | 0.030 | 1               |
| Naphthalene                                      | 2.0    |           | mg/kg | 0.038 | 0.023 | 1               |
| 4-Chloroaniline                                  | ND     |           | mg/kg | 0.19  | 0.034 | 1               |
| Hexachlorobutadiene                              | ND     |           | mg/kg | 0.19  | 0.028 | 1               |
| Caprolactam                                      | ND     |           | mg/kg | 0.19  | 0.057 | 1               |
| p-Chloro-m-cresol                                | ND     |           | mg/kg | 0.19  | 0.028 | 1               |
| 2-Methylnaphthalene                              | 1.9    |           | mg/kg | 0.23  | 0.023 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | mg/kg | 0.54  | 0.17  | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | mg/kg | 0.19  | 0.020 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | mg/kg | 0.11  | 0.036 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | mg/kg | 0.19  | 0.036 | 1               |
| Biphenyl                                         | 0.52   |           | mg/kg | 0.43  | 0.024 | 1               |
| 2-Chloronaphthalene                              | ND     |           | mg/kg | 0.19  | 0.019 | 1               |





**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-07**Date Collected:** 01/10/23 13:35**Client ID:** SB-02-00-02**Date Received:** 01/11/23**Sample Location:** Not Specified**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| 2-Nitroaniline                                   | ND     |           | mg/kg | 0.19 | 0.036 | 1               |
| Dimethyl phthalate                               | ND     |           | mg/kg | 0.19 | 0.040 | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | mg/kg | 0.19 | 0.032 | 1               |
| Acenaphthylene                                   | 0.084  | J         | mg/kg | 0.15 | 0.029 | 1               |
| 3-Nitroaniline                                   | ND     |           | mg/kg | 0.19 | 0.036 | 1               |
| Acenaphthene                                     | 0.075  | J         | mg/kg | 0.15 | 0.020 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | mg/kg | 0.90 | 0.088 | 1               |
| 4-Nitrophenol                                    | ND     |           | mg/kg | 0.26 | 0.077 | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | mg/kg | 0.19 | 0.038 | 1               |
| Dibenzofuran                                     | 0.25   |           | mg/kg | 0.19 | 0.018 | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | mg/kg | 0.19 | 0.038 | 1               |
| Diethyl phthalate                                | ND     |           | mg/kg | 0.19 | 0.017 | 1               |
| Fluorene                                         | 0.25   |           | mg/kg | 0.19 | 0.018 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | mg/kg | 0.19 | 0.020 | 1               |
| 4-Nitroaniline                                   | ND     |           | mg/kg | 0.19 | 0.078 | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | mg/kg | 0.49 | 0.090 | 1               |
| NDPA/DPA                                         | ND     |           | mg/kg | 0.15 | 0.021 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | mg/kg | 0.19 | 0.029 | 1               |
| Hexachlorobenzene                                | ND     |           | mg/kg | 0.11 | 0.021 | 1               |
| Pentachlorophenol                                | ND     |           | mg/kg | 0.15 | 0.041 | 1               |
| Atrazine                                         | ND     |           | mg/kg | 0.15 | 0.066 | 1               |
| Phenanthrene                                     | 1.4    |           | mg/kg | 0.11 | 0.023 | 1               |
| Anthracene                                       | 0.16   |           | mg/kg | 0.11 | 0.037 | 1               |
| Carbazole                                        | 0.093  | J         | mg/kg | 0.19 | 0.018 | 1               |
| Di-n-butylphthalate                              | ND     |           | mg/kg | 0.19 | 0.036 | 1               |
| Fluoranthene                                     | 0.57   |           | mg/kg | 0.11 | 0.022 | 1               |
| Pyrene                                           | 0.81   |           | mg/kg | 0.11 | 0.019 | 1               |
| Butyl benzyl phthalate                           | ND     |           | mg/kg | 0.19 | 0.047 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | mg/kg | 0.19 | 0.050 | 1               |
| Benzo(a)anthracene                               | 0.36   |           | mg/kg | 0.11 | 0.021 | 1               |
| Chrysene                                         | 0.67   |           | mg/kg | 0.11 | 0.020 | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | mg/kg | 0.19 | 0.065 | 1               |
| Di-n-octylphthalate                              | ND     |           | mg/kg | 0.19 | 0.064 | 1               |
| Benzo(b)fluoranthene                             | 0.47   |           | mg/kg | 0.11 | 0.032 | 1               |
| Benzo(k)fluoranthene                             | 0.14   |           | mg/kg | 0.11 | 0.030 | 1               |
| Benzo(a)pyrene                                   | 0.31   |           | mg/kg | 0.15 | 0.046 | 1               |
| Indeno(1,2,3-cd)pyrene                           | 0.22   |           | mg/kg | 0.15 | 0.026 | 1               |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-07  
**Client ID:** SB-02-00-02  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 13:35  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| Dibenzo(a,h)anthracene                           | 0.068  | J         | mg/kg | 0.11 | 0.022 | 1               |
| Benzo(ghi)perylene                               | 0.24   |           | mg/kg | 0.15 | 0.022 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 62         |           | 25-120              |
| Phenol-d6            | 65         |           | 10-120              |
| Nitrobenzene-d5      | 38         |           | 23-120              |
| 2-Fluorobiphenyl     | 68         |           | 30-120              |
| 2,4,6-Tribromophenol | 17         |           | 10-136              |
| 4-Terphenyl-d14      | 71         |           | 18-120              |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-08  
**Client ID:** SB-01-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 14:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270E  
**Analytical Date:** 01/15/23 23:12  
**Analyst:** LJG  
**Percent Solids:** 91%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:44

| Parameter                                        | Result | Qualifier | Units | RL    | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |       |       |                 |
| Benzaldehyde                                     | ND     |           | mg/kg | 0.24  | 0.049 | 1               |
| Phenol                                           | ND     |           | mg/kg | 0.18  | 0.027 | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | mg/kg | 0.16  | 0.024 | 1               |
| 2-Chlorophenol                                   | ND     |           | mg/kg | 0.18  | 0.021 | 1               |
| 2-Methylphenol                                   | ND     |           | mg/kg | 0.18  | 0.028 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | mg/kg | 0.22  | 0.031 | 1               |
| Acetophenone                                     | ND     |           | mg/kg | 0.18  | 0.022 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | mg/kg | 0.18  | 0.028 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | mg/kg | 0.26  | 0.028 | 1               |
| Hexachloroethane                                 | ND     |           | mg/kg | 0.14  | 0.029 | 1               |
| Nitrobenzene                                     | ND     |           | mg/kg | 0.16  | 0.027 | 1               |
| Isophorone                                       | ND     |           | mg/kg | 0.16  | 0.023 | 1               |
| 2-Nitrophenol                                    | ND     |           | mg/kg | 0.39  | 0.068 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | mg/kg | 0.18  | 0.060 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | mg/kg | 0.20  | 0.018 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | mg/kg | 0.16  | 0.029 | 1               |
| Naphthalene                                      | ND     |           | mg/kg | 0.036 | 0.022 | 1               |
| 4-Chloroaniline                                  | ND     |           | mg/kg | 0.18  | 0.033 | 1               |
| Hexachlorobutadiene                              | ND     |           | mg/kg | 0.18  | 0.026 | 1               |
| Caprolactam                                      | ND     |           | mg/kg | 0.18  | 0.055 | 1               |
| p-Chloro-m-cresol                                | ND     |           | mg/kg | 0.18  | 0.027 | 1               |
| 2-Methylnaphthalene                              | ND     |           | mg/kg | 0.22  | 0.022 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | mg/kg | 0.52  | 0.16  | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | mg/kg | 0.18  | 0.019 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | mg/kg | 0.11  | 0.034 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | mg/kg | 0.18  | 0.035 | 1               |
| Biphenyl                                         | ND     |           | mg/kg | 0.41  | 0.023 | 1               |
| 2-Chloronaphthalene                              | ND     |           | mg/kg | 0.18  | 0.018 | 1               |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-08**Date Collected:** 01/10/23 14:05**Client ID:** SB-01-08-10**Date Received:** 01/11/23**Sample Location:** Not Specified**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| 2-Nitroaniline                                   | ND     |           | mg/kg | 0.18 | 0.035 | 1               |
| Dimethyl phthalate                               | ND     |           | mg/kg | 0.18 | 0.038 | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | mg/kg | 0.18 | 0.031 | 1               |
| Acenaphthylene                                   | ND     |           | mg/kg | 0.14 | 0.028 | 1               |
| 3-Nitroaniline                                   | ND     |           | mg/kg | 0.18 | 0.034 | 1               |
| Acenaphthene                                     | ND     |           | mg/kg | 0.14 | 0.019 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | mg/kg | 0.87 | 0.084 | 1               |
| 4-Nitrophenol                                    | ND     |           | mg/kg | 0.25 | 0.074 | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | mg/kg | 0.18 | 0.036 | 1               |
| Dibenzofuran                                     | ND     |           | mg/kg | 0.18 | 0.017 | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | mg/kg | 0.18 | 0.036 | 1               |
| Diethyl phthalate                                | ND     |           | mg/kg | 0.18 | 0.017 | 1               |
| Fluorene                                         | ND     |           | mg/kg | 0.18 | 0.018 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | mg/kg | 0.18 | 0.019 | 1               |
| 4-Nitroaniline                                   | ND     |           | mg/kg | 0.18 | 0.075 | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | mg/kg | 0.47 | 0.087 | 1               |
| NDPA/DPA                                         | ND     |           | mg/kg | 0.14 | 0.020 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | mg/kg | 0.18 | 0.028 | 1               |
| Hexachlorobenzene                                | ND     |           | mg/kg | 0.11 | 0.020 | 1               |
| Pentachlorophenol                                | ND     |           | mg/kg | 0.14 | 0.040 | 1               |
| Atrazine                                         | ND     |           | mg/kg | 0.14 | 0.063 | 1               |
| Phenanthrene                                     | ND     |           | mg/kg | 0.11 | 0.022 | 1               |
| Anthracene                                       | ND     |           | mg/kg | 0.11 | 0.035 | 1               |
| Carbazole                                        | ND     |           | mg/kg | 0.18 | 0.018 | 1               |
| Di-n-butylphthalate                              | ND     |           | mg/kg | 0.18 | 0.034 | 1               |
| Fluoranthene                                     | ND     |           | mg/kg | 0.11 | 0.021 | 1               |
| Pyrene                                           | ND     |           | mg/kg | 0.11 | 0.018 | 1               |
| Butyl benzyl phthalate                           | ND     |           | mg/kg | 0.18 | 0.046 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | mg/kg | 0.18 | 0.048 | 1               |
| Benzo(a)anthracene                               | ND     |           | mg/kg | 0.11 | 0.020 | 1               |
| Chrysene                                         | ND     |           | mg/kg | 0.11 | 0.019 | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | mg/kg | 0.18 | 0.062 | 1               |
| Di-n-octylphthalate                              | ND     |           | mg/kg | 0.18 | 0.061 | 1               |
| Benzo(b)fluoranthene                             | ND     |           | mg/kg | 0.11 | 0.030 | 1               |
| Benzo(k)fluoranthene                             | ND     |           | mg/kg | 0.11 | 0.029 | 1               |
| Benzo(a)pyrene                                   | ND     |           | mg/kg | 0.14 | 0.044 | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | mg/kg | 0.14 | 0.025 | 1               |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-08  
**Client ID:** SB-01-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 14:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |       |                 |
| Dibenzo(a,h)anthracene                           | ND     |           | mg/kg | 0.11 | 0.021 | 1               |
| Benzo(ghi)perylene                               | ND     |           | mg/kg | 0.14 | 0.021 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 66         |           | 25-120              |
| Phenol-d6            | 67         |           | 10-120              |
| Nitrobenzene-d5      | 63         |           | 23-120              |
| 2-Fluorobiphenyl     | 67         |           | 30-120              |
| 2,4,6-Tribromophenol | 53         |           | 10-136              |
| 4-Terphenyl-d14      | 68         |           | 18-120              |



Project Name: CUY-77-11.21 PID 10573

Lab Number: L2301501

Project Number: 301525.1000

Report Date: 01/18/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E  
 Analytical Date: 01/15/23 18:04  
 Analyst: LJG

Extraction Method: EPA 3546  
 Extraction Date: 01/12/23 11:44

| Parameter                                                                                | Result | Qualifier | Units | RL    | MDL   |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1732739-1 |        |           |       |       |       |
| Benzaldehyde                                                                             | ND     |           | mg/kg | 0.22  | 0.045 |
| Phenol                                                                                   | ND     |           | mg/kg | 0.16  | 0.025 |
| Bis(2-chloroethyl)ether                                                                  | ND     |           | mg/kg | 0.15  | 0.022 |
| 2-Chlorophenol                                                                           | ND     |           | mg/kg | 0.16  | 0.020 |
| 2-Methylphenol                                                                           | ND     |           | mg/kg | 0.16  | 0.026 |
| Bis(2-chloroisopropyl)ether                                                              | ND     |           | mg/kg | 0.20  | 0.028 |
| Acetophenone                                                                             | ND     |           | mg/kg | 0.16  | 0.020 |
| n-Nitrosodi-n-propylamine                                                                | ND     |           | mg/kg | 0.16  | 0.026 |
| 3-Methylphenol/4-Methylphenol                                                            | ND     |           | mg/kg | 0.24  | 0.026 |
| Hexachloroethane                                                                         | ND     |           | mg/kg | 0.13  | 0.027 |
| Nitrobenzene                                                                             | ND     |           | mg/kg | 0.15  | 0.024 |
| Isophorone                                                                               | ND     |           | mg/kg | 0.15  | 0.021 |
| 2-Nitrophenol                                                                            | ND     |           | mg/kg | 0.36  | 0.062 |
| 2,4-Dimethylphenol                                                                       | ND     |           | mg/kg | 0.16  | 0.055 |
| Bis(2-chloroethoxy)methane                                                               | ND     |           | mg/kg | 0.18  | 0.016 |
| 2,4-Dichlorophenol                                                                       | ND     |           | mg/kg | 0.15  | 0.027 |
| Naphthalene                                                                              | ND     |           | mg/kg | 0.033 | 0.020 |
| 4-Chloroaniline                                                                          | ND     |           | mg/kg | 0.16  | 0.030 |
| Hexachlorobutadiene                                                                      | ND     |           | mg/kg | 0.16  | 0.024 |
| Caprolactam                                                                              | ND     |           | mg/kg | 0.16  | 0.050 |
| p-Chloro-m-cresol                                                                        | ND     |           | mg/kg | 0.16  | 0.025 |
| 2-Methylnaphthalene                                                                      | ND     |           | mg/kg | 0.20  | 0.020 |
| Hexachlorocyclopentadiene                                                                | ND     |           | mg/kg | 0.47  | 0.15  |
| 1,2,4,5-Tetrachlorobenzene                                                               | ND     |           | mg/kg | 0.16  | 0.017 |
| 2,4,6-Trichlorophenol                                                                    | ND     |           | mg/kg | 0.099 | 0.031 |
| 2,4,5-Trichlorophenol                                                                    | ND     |           | mg/kg | 0.16  | 0.032 |
| Biphenyl                                                                                 | ND     |           | mg/kg | 0.38  | 0.022 |
| 2-Chloronaphthalene                                                                      | ND     |           | mg/kg | 0.16  | 0.016 |
| 2-Nitroaniline                                                                           | ND     |           | mg/kg | 0.16  | 0.032 |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E  
 Analytical Date: 01/15/23 18:04  
 Analyst: LJG

Extraction Method: EPA 3546  
 Extraction Date: 01/12/23 11:44

| Parameter                                                                                | Result | Qualifier | Units | RL    | MDL   |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1732739-1 |        |           |       |       |       |
| Dimethyl phthalate                                                                       | ND     |           | mg/kg | 0.16  | 0.035 |
| 2,6-Dinitrotoluene                                                                       | ND     |           | mg/kg | 0.16  | 0.028 |
| Acenaphthylene                                                                           | ND     |           | mg/kg | 0.13  | 0.026 |
| 3-Nitroaniline                                                                           | ND     |           | mg/kg | 0.16  | 0.031 |
| Acenaphthene                                                                             | ND     |           | mg/kg | 0.13  | 0.017 |
| 2,4-Dinitrophenol                                                                        | ND     |           | mg/kg | 0.79  | 0.077 |
| 4-Nitrophenol                                                                            | ND     |           | mg/kg | 0.23  | 0.068 |
| 2,4-Dinitrotoluene                                                                       | ND     |           | mg/kg | 0.16  | 0.033 |
| Dibenzofuran                                                                             | ND     |           | mg/kg | 0.16  | 0.016 |
| 2,3,4,6-Tetrachlorophenol                                                                | ND     |           | mg/kg | 0.16  | 0.033 |
| Diethyl phthalate                                                                        | ND     |           | mg/kg | 0.16  | 0.015 |
| Fluorene                                                                                 | ND     |           | mg/kg | 0.16  | 0.016 |
| 4-Chlorophenyl phenyl ether                                                              | ND     |           | mg/kg | 0.16  | 0.018 |
| 4-Nitroaniline                                                                           | ND     |           | mg/kg | 0.16  | 0.068 |
| 4,6-Dinitro-o-cresol                                                                     | ND     |           | mg/kg | 0.43  | 0.079 |
| NDPA/DPA                                                                                 | ND     |           | mg/kg | 0.13  | 0.019 |
| 4-Bromophenyl phenyl ether                                                               | ND     |           | mg/kg | 0.16  | 0.025 |
| Hexachlorobenzene                                                                        | ND     |           | mg/kg | 0.099 | 0.018 |
| Pentachlorophenol                                                                        | ND     |           | mg/kg | 0.13  | 0.036 |
| Atrazine                                                                                 | ND     |           | mg/kg | 0.13  | 0.058 |
| Phenanthrene                                                                             | ND     |           | mg/kg | 0.099 | 0.020 |
| Anthracene                                                                               | ND     |           | mg/kg | 0.099 | 0.032 |
| Carbazole                                                                                | ND     |           | mg/kg | 0.16  | 0.016 |
| Di-n-butylphthalate                                                                      | ND     |           | mg/kg | 0.16  | 0.031 |
| Fluoranthene                                                                             | ND     |           | mg/kg | 0.099 | 0.019 |
| Pyrene                                                                                   | ND     |           | mg/kg | 0.099 | 0.016 |
| Butyl benzyl phthalate                                                                   | ND     |           | mg/kg | 0.16  | 0.042 |
| 3,3'-Dichlorobenzidine                                                                   | ND     |           | mg/kg | 0.16  | 0.044 |
| Benzo(a)anthracene                                                                       | ND     |           | mg/kg | 0.099 | 0.019 |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E  
 Analytical Date: 01/15/23 18:04  
 Analyst: LJG

Extraction Method: EPA 3546  
 Extraction Date: 01/12/23 11:44

| Parameter                                                                                | Result | Qualifier | Units | RL    | MDL   |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1732739-1 |        |           |       |       |       |
| Chrysene                                                                                 | ND     |           | mg/kg | 0.099 | 0.017 |
| Bis(2-ethylhexyl)phthalate                                                               | ND     |           | mg/kg | 0.16  | 0.057 |
| Di-n-octylphthalate                                                                      | ND     |           | mg/kg | 0.16  | 0.056 |
| Benzo(b)fluoranthene                                                                     | ND     |           | mg/kg | 0.099 | 0.028 |
| Benzo(k)fluoranthene                                                                     | ND     |           | mg/kg | 0.099 | 0.026 |
| Benzo(a)pyrene                                                                           | ND     |           | mg/kg | 0.13  | 0.040 |
| Indeno(1,2,3-cd)pyrene                                                                   | ND     |           | mg/kg | 0.13  | 0.023 |
| Dibenzo(a,h)anthracene                                                                   | ND     |           | mg/kg | 0.099 | 0.019 |
| Benzo(ghi)perylene                                                                       | ND     |           | mg/kg | 0.13  | 0.019 |

| Surrogate            | %Recovery | Qualifier | Acceptance<br>Criteria |
|----------------------|-----------|-----------|------------------------|
| 2-Fluorophenol       | 78        |           | 25-120                 |
| Phenol-d6            | 76        |           | 10-120                 |
| Nitrobenzene-d5      | 70        |           | 23-120                 |
| 2-Fluorobiphenyl     | 79        |           | 30-120                 |
| 2,4,6-Tribromophenol | 72        |           | 10-136                 |
| 4-Terphenyl-d14      | 85        |           | 18-120                 |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CUY-77-11.21 PID 10573

**Lab Number:** L2301501

**Project Number:** 301525.1000

**Report Date:** 01/18/23

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1732739-2 WG1732739-3 |                  |      |                   |      |                     |     |      |               |
| Benzaldehyde                                                                                                | 85               |      | 88                |      | 40-140              | 3   |      | 50            |
| Phenol                                                                                                      | 78               |      | 82                |      | 26-90               | 5   |      | 50            |
| Bis(2-chloroethyl)ether                                                                                     | 75               |      | 78                |      | 40-140              | 4   |      | 50            |
| 2-Chlorophenol                                                                                              | 79               |      | 81                |      | 25-102              | 3   |      | 50            |
| 2-Methylphenol                                                                                              | 77               |      | 80                |      | 30-130              | 4   |      | 50            |
| Bis(2-chloroisopropyl)ether                                                                                 | 84               |      | 87                |      | 40-140              | 4   |      | 50            |
| Acetophenone                                                                                                | 72               |      | 74                |      | 14-144              | 3   |      | 50            |
| n-Nitrosodi-n-propylamine                                                                                   | 70               |      | 71                |      | 32-121              | 1   |      | 50            |
| 3-Methylphenol/4-Methylphenol                                                                               | 84               |      | 86                |      | 30-130              | 2   |      | 50            |
| Hexachloroethane                                                                                            | 73               |      | 74                |      | 40-140              | 1   |      | 50            |
| Nitrobenzene                                                                                                | 72               |      | 73                |      | 40-140              | 1   |      | 50            |
| Isophorone                                                                                                  | 69               |      | 69                |      | 40-140              | 0   |      | 50            |
| 2-Nitrophenol                                                                                               | 80               |      | 82                |      | 30-130              | 2   |      | 50            |
| 2,4-Dimethylphenol                                                                                          | 71               |      | 72                |      | 30-130              | 1   |      | 50            |
| Bis(2-chloroethoxy)methane                                                                                  | 75               |      | 75                |      | 40-117              | 0   |      | 50            |
| 2,4-Dichlorophenol                                                                                          | 83               |      | 83                |      | 30-130              | 0   |      | 50            |
| Naphthalene                                                                                                 | 76               |      | 79                |      | 40-140              | 4   |      | 50            |
| 4-Chloroaniline                                                                                             | 58               |      | 54                |      | 40-140              | 7   |      | 50            |
| Hexachlorobutadiene                                                                                         | 81               |      | 82                |      | 40-140              | 1   |      | 50            |
| Caprolactam                                                                                                 | 85               |      | 87                |      | 15-130              | 2   |      | 50            |
| p-Chloro-m-cresol                                                                                           | 77               |      | 78                |      | 26-103              | 1   |      | 50            |
| 2-Methylnaphthalene                                                                                         | 76               |      | 77                |      | 40-140              | 1   |      | 50            |
| Hexachlorocyclopentadiene                                                                                   | 67               |      | 66                |      | 40-140              | 2   |      | 50            |

# **Lab Control Sample Analysis** Batch Quality Control

Project Name: CUY-77-11.21 PID 10573

Lab Number: L2301501

Project Number: 301525.1000

Report Date: 01/18/23

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1732739-2 WG1732739-3 |                  |      |                   |      |                     |     |      |               |
| 1,2,4,5-Tetrachlorobenzene                                                                                  | 82               |      | 82                |      | 40-117              | 0   |      | 50            |
| 2,4,6-Trichlorophenol                                                                                       | 86               |      | 85                |      | 30-130              | 1   |      | 50            |
| 2,4,5-Trichlorophenol                                                                                       | 87               |      | 86                |      | 30-130              | 1   |      | 50            |
| Biphenyl                                                                                                    | 77               |      | 77                |      | 37-127              | 0   |      | 50            |
| 2-Chloronaphthalene                                                                                         | 80               |      | 81                |      | 40-140              | 1   |      | 50            |
| 2-Nitroaniline                                                                                              | 79               |      | 80                |      | 47-134              | 1   |      | 50            |
| Dimethyl phthalate                                                                                          | 80               |      | 77                |      | 40-140              | 4   |      | 50            |
| 2,6-Dinitrotoluene                                                                                          | 82               |      | 80                |      | 40-140              | 2   |      | 50            |
| Acenaphthylene                                                                                              | 81               |      | 81                |      | 40-140              | 0   |      | 50            |
| 3-Nitroaniline                                                                                              | 63               |      | 64                |      | 26-129              | 2   |      | 50            |
| Acenaphthene                                                                                                | 77               |      | 79                |      | 31-137              | 3   |      | 50            |
| 2,4-Dinitrophenol                                                                                           | 90               |      | 90                |      | 4-130               | 0   |      | 50            |
| 4-Nitrophenol                                                                                               | 79               |      | 85                |      | 11-114              | 7   |      | 50            |
| 2,4-Dinitrotoluene                                                                                          | 81               |      | 83                |      | 40-132              | 2   |      | 50            |
| Dibenzofuran                                                                                                | 80               |      | 83                |      | 40-140              | 4   |      | 50            |
| 2,3,4,6-Tetrachlorophenol                                                                                   | 90               |      | 92                |      | 58-132              | 2   |      | 50            |
| Diethyl phthalate                                                                                           | 79               |      | 78                |      | 40-140              | 1   |      | 50            |
| Fluorene                                                                                                    | 78               |      | 80                |      | 40-140              | 3   |      | 50            |
| 4-Chlorophenyl phenyl ether                                                                                 | 82               |      | 83                |      | 40-140              | 1   |      | 50            |
| 4-Nitroaniline                                                                                              | 76               |      | 78                |      | 41-125              | 3   |      | 50            |
| 4,6-Dinitro-o-cresol                                                                                        | 84               |      | 86                |      | 10-130              | 2   |      | 50            |
| NDPA/DPA                                                                                                    | 82               |      | 83                |      | 36-157              | 1   |      | 50            |
| 4-Bromophenyl phenyl ether                                                                                  | 86               |      | 85                |      | 40-140              | 1   |      | 50            |



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CUY-77-11.21 PID 10573

**Lab Number:** L2301501

**Project Number:** 301525.1000

**Report Date:** 01/18/23

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1732739-2 WG1732739-3 |                  |      |                   |      |                     |     |      |               |
| Hexachlorobenzene                                                                                           | 82               |      | 82                |      | 40-140              | 0   |      | 50            |
| Pentachlorophenol                                                                                           | 79               |      | 82                |      | 17-109              | 4   |      | 50            |
| Atrazine                                                                                                    | 68               |      | 65                |      | 40-140              | 5   |      | 50            |
| Phenanthrene                                                                                                | 76               |      | 78                |      | 40-140              | 3   |      | 50            |
| Anthracene                                                                                                  | 79               |      | 82                |      | 40-140              | 4   |      | 50            |
| Carbazole                                                                                                   | 76               |      | 78                |      | 54-128              | 3   |      | 50            |
| Di-n-butylphthalate                                                                                         | 82               |      | 81                |      | 40-140              | 1   |      | 50            |
| Fluoranthene                                                                                                | 79               |      | 82                |      | 40-140              | 4   |      | 50            |
| Pyrene                                                                                                      | 78               |      | 82                |      | 35-142              | 5   |      | 50            |
| Butyl benzyl phthalate                                                                                      | 78               |      | 79                |      | 40-140              | 1   |      | 50            |
| 3,3'-Dichlorobenzidine                                                                                      | 64               |      | 62                |      | 40-140              | 3   |      | 50            |
| Benzo(a)anthracene                                                                                          | 80               |      | 82                |      | 40-140              | 2   |      | 50            |
| Chrysene                                                                                                    | 79               |      | 81                |      | 40-140              | 3   |      | 50            |
| Bis(2-ethylhexyl)phthalate                                                                                  | 83               |      | 77                |      | 40-140              | 8   |      | 50            |
| Di-n-octylphthalate                                                                                         | 82               |      | 79                |      | 40-140              | 4   |      | 50            |
| Benzo(b)fluoranthene                                                                                        | 80               |      | 87                |      | 40-140              | 8   |      | 50            |
| Benzo(k)fluoranthene                                                                                        | 80               |      | 81                |      | 40-140              | 1   |      | 50            |
| Benzo(a)pyrene                                                                                              | 81               |      | 87                |      | 40-140              | 7   |      | 50            |
| Indeno(1,2,3-cd)pyrene                                                                                      | 86               |      | 89                |      | 40-140              | 3   |      | 50            |
| Dibenzo(a,h)anthracene                                                                                      | 78               |      | 80                |      | 40-140              | 3   |      | 50            |
| Benzo(ghi)perylene                                                                                          | 77               |      | 80                |      | 40-140              | 4   |      | 50            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: CUY-77-11.21 PID 10573

Project Number: 301525.1000

Lab Number: L2301501

Report Date: 01/18/23

| Parameter | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
|-----------|------------------|------|-------------------|------|---------------------|-----|------|---------------|

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1732739-2 WG1732739-3

| Surrogate            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|----------------------|------------------|------|-------------------|------|------------------------|
| 2-Fluorophenol       | 79               |      | 80                |      | 25-120                 |
| Phenol-d6            | 76               |      | 76                |      | 10-120                 |
| Nitrobenzene-d5      | 70               |      | 71                |      | 23-120                 |
| 2-Fluorobiphenyl     | 78               |      | 75                |      | 30-120                 |
| 2,4,6-Tribromophenol | 75               |      | 73                |      | 10-136                 |
| 4-Terphenyl-d14      | 81               |      | 79                |      | 18-120                 |

# **PETROLEUM HYDROCARBONS**

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-01  
**Client ID:** SB-08-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 11:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 01/12/23 21:33  
**Analyst:** BAD  
**Percent Solids:** 80%

**Extraction Method:**

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

## Gasoline Range Organics - Westborough Lab

|              |      |   |       |      |      |   |
|--------------|------|---|-------|------|------|---|
| TPH (C6-C12) | 1.25 | J | mg/kg | 4.52 | 1.17 | 1 |
|--------------|------|---|-------|------|------|---|

| Surrogate              | % Recovery | Qualifier | Acceptance Criteria |
|------------------------|------------|-----------|---------------------|
| 1,1,1-Trifluorotoluene | 101        |           | 70-130              |
| 4-Bromofluorobenzene   | 93         |           | 70-130              |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-01  
**Client ID:** SB-08-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 11:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 01/15/23 16:44  
**Analyst:** SR  
**Percent Solids:** 80%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:46

| Parameter                                           | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|-----------------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| Diesel Range & Oil Range Organics - Westborough Lab |            |           |           |                     |      |                 |
| TPH (C10-C20)                                       | 38.2       |           | mg/kg     | 18.6                | 1.64 | 1               |
| TPH (C20-C34)                                       | 20.2       |           | mg/kg     | 18.6                | 2.19 | 1               |
| Surrogate                                           | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| o-Terphenyl                                         | 68         |           |           | 40-140              |      |                 |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

Lab ID: L2301501-02  
 Client ID: SB-07-03-05  
 Sample Location: Not Specified

Date Collected: 01/10/23 11:35  
 Date Received: 01/11/23  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 01/12/23 22:03  
 Analyst: BAD  
 Percent Solids: 84%

Extraction Method:

| Parameter                                 | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|-------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| Gasoline Range Organics - Westborough Lab |            |           |           |                     |      |                 |
| TPH (C6-C12)                              | ND         |           | mg/kg     | 5.04                | 1.31 | 1               |
| Surrogate                                 | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| 1,1,1-Trifluorotoluene                    | 98         |           |           | 70-130              |      |                 |
| 4-Bromofluorobenzene                      | 96         |           |           | 70-130              |      |                 |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-02  
**Client ID:** SB-07-03-05  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 11:35  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 01/15/23 16:19  
**Analyst:** SR  
**Percent Solids:** 84%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:46

| Parameter                                           | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|-----------------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| Diesel Range & Oil Range Organics - Westborough Lab |            |           |           |                     |      |                 |
| TPH (C10-C20)                                       | 25.9       |           | mg/kg     | 17.3                | 1.53 | 1               |
| TPH (C20-C34)                                       | 8.48       | J         | mg/kg     | 17.3                | 2.04 | 1               |
| Surrogate                                           | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| o-Terphenyl                                         | 70         |           |           | 40-140              |      |                 |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-03  
**Client ID:** SB-06-00-02  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 01/12/23 22:34  
**Analyst:** BAD  
**Percent Solids:** 85%

**Extraction Method:**

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

|                                           |  |  |  |  |  |  |
|-------------------------------------------|--|--|--|--|--|--|
| Gasoline Range Organics - Westborough Lab |  |  |  |  |  |  |
|-------------------------------------------|--|--|--|--|--|--|

|              |      |  |       |      |      |   |
|--------------|------|--|-------|------|------|---|
| TPH (C6-C12) | 19.5 |  | mg/kg | 8.25 | 2.14 | 1 |
|--------------|------|--|-------|------|------|---|

| Surrogate              | % Recovery | Qualifier | Acceptance Criteria |
|------------------------|------------|-----------|---------------------|
| 1,1,1-Trifluorotoluene | 105        |           | 70-130              |
| 4-Bromofluorobenzene   | 97         |           | 70-130              |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-03  
**Client ID:** SB-06-00-02  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 01/15/23 18:24  
**Analyst:** SR  
**Percent Solids:** 85%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:46

| Parameter                                           | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|-----------------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| Diesel Range & Oil Range Organics - Westborough Lab |            |           |           |                     |      |                 |
| TPH (C10-C20)                                       | 85.7       |           | mg/kg     | 17.0                | 1.50 | 1               |
| TPH (C20-C34)                                       | 218.       |           | mg/kg     | 17.0                | 2.00 | 1               |
| Surrogate                                           | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| o-Terphenyl                                         | 82         |           |           | 40-140              |      |                 |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-04  
**Client ID:** SB-05-07-09  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:30  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 01/12/23 23:04  
**Analyst:** BAD  
**Percent Solids:** 86%

**Extraction Method:**

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

## Gasoline Range Organics - Westborough Lab

|              |    |  |       |      |      |   |
|--------------|----|--|-------|------|------|---|
| TPH (C6-C12) | ND |  | mg/kg | 4.25 | 1.10 | 1 |
|--------------|----|--|-------|------|------|---|

| Surrogate              | % Recovery | Qualifier | Acceptance Criteria |
|------------------------|------------|-----------|---------------------|
| 1,1,1-Trifluorotoluene | 97         |           | 70-130              |
| 4-Bromofluorobenzene   | 97         |           | 70-130              |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-04  
**Client ID:** SB-05-07-09  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:30  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 01/15/23 17:09  
**Analyst:** SR  
**Percent Solids:** 86%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:46

| Parameter                                           | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|-----------------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| Diesel Range & Oil Range Organics - Westborough Lab |            |           |           |                     |      |                 |
| TPH (C10-C20)                                       | 36.8       |           | mg/kg     | 16.9                | 1.49 | 1               |
| TPH (C20-C34)                                       | 33.0       |           | mg/kg     | 16.9                | 1.99 | 1               |
| Surrogate                                           | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| o-Terphenyl                                         | 66         |           |           | 40-140              |      |                 |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

Lab ID: L2301501-05  
 Client ID: SB-04-02-04  
 Sample Location: Not Specified

Date Collected: 01/10/23 12:55  
 Date Received: 01/11/23  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 01/12/23 23:34  
 Analyst: BAD  
 Percent Solids: 83%

Extraction Method:

| Parameter                                 | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|-------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| Gasoline Range Organics - Westborough Lab |            |           |           |                     |      |                 |
| TPH (C6-C12)                              | ND         |           | mg/kg     | 4.91                | 1.28 | 1               |
| Surrogate                                 | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| 1,1,1-Trifluorotoluene                    | 96         |           |           | 70-130              |      |                 |
| 4-Bromofluorobenzene                      | 89         |           |           | 70-130              |      |                 |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-05  
**Client ID:** SB-04-02-04  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 12:55  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 01/15/23 17:59  
**Analyst:** SR  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:46

| Parameter                                           | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|-----------------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| Diesel Range & Oil Range Organics - Westborough Lab |            |           |           |                     |      |                 |
| TPH (C10-C20)                                       | 45.8       |           | mg/kg     | 17.5                | 1.55 | 1               |
| TPH (C20-C34)                                       | 52.9       |           | mg/kg     | 17.5                | 2.06 | 1               |
| Surrogate                                           | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| o-Terphenyl                                         | 73         |           |           | 40-140              |      |                 |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

Lab ID: L2301501-06  
 Client ID: SB-03-08-10  
 Sample Location: Not Specified

Date Collected: 01/10/23 13:10  
 Date Received: 01/11/23  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 01/13/23 00:04  
 Analyst: BAD  
 Percent Solids: 87%

Extraction Method:

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

|                                           |  |  |  |  |  |  |
|-------------------------------------------|--|--|--|--|--|--|
| Gasoline Range Organics - Westborough Lab |  |  |  |  |  |  |
|-------------------------------------------|--|--|--|--|--|--|

|              |    |  |       |      |      |   |
|--------------|----|--|-------|------|------|---|
| TPH (C6-C12) | ND |  | mg/kg | 5.01 | 1.30 | 1 |
|--------------|----|--|-------|------|------|---|

| Surrogate              | % Recovery | Qualifier | Acceptance Criteria |
|------------------------|------------|-----------|---------------------|
| 1,1,1-Trifluorotoluene | 97         |           | 70-130              |
| 4-Bromofluorobenzene   | 92         |           | 70-130              |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-06  
**Client ID:** SB-03-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 13:10  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 01/15/23 17:34  
**Analyst:** SR  
**Percent Solids:** 87%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:46

| Parameter                                           | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|-----------------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| Diesel Range & Oil Range Organics - Westborough Lab |            |           |           |                     |      |                 |
| TPH (C10-C20)                                       | 6.69       | J         | mg/kg     | 16.6                | 1.47 | 1               |
| TPH (C20-C34)                                       | 10.2       | J         | mg/kg     | 16.6                | 1.96 | 1               |
| Surrogate                                           | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| o-Terphenyl                                         | 70         |           |           | 40-140              |      |                 |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-07  
**Client ID:** SB-02-00-02  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 13:35  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 01/13/23 00:34  
**Analyst:** BAD  
**Percent Solids:** 88%

**Extraction Method:**

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

## Gasoline Range Organics - Westborough Lab

|              |      |   |       |      |      |   |
|--------------|------|---|-------|------|------|---|
| TPH (C6-C12) | 6.14 | J | mg/kg | 8.40 | 2.18 | 1 |
|--------------|------|---|-------|------|------|---|

| Surrogate              | % Recovery | Qualifier | Acceptance Criteria |
|------------------------|------------|-----------|---------------------|
| 1,1,1-Trifluorotoluene | 102        |           | 70-130              |
| 4-Bromofluorobenzene   | 101        |           | 70-130              |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-07  
**Client ID:** SB-02-00-02  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 13:35  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 01/15/23 17:59  
**Analyst:** SR  
**Percent Solids:** 88%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:46

| Parameter                                           | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|-----------------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| Diesel Range & Oil Range Organics - Westborough Lab |            |           |           |                     |      |                 |
| TPH (C10-C20)                                       | 275.       |           | mg/kg     | 16.3                | 1.44 | 1               |
| TPH (C20-C34)                                       | 333.       |           | mg/kg     | 16.3                | 1.92 | 1               |
| Surrogate                                           | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| o-Terphenyl                                         | 68         |           |           | 40-140              |      |                 |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

Lab ID: L2301501-08  
 Client ID: SB-01-08-10  
 Sample Location: Not Specified

Date Collected: 01/10/23 14:05  
 Date Received: 01/11/23  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 01/13/23 01:04  
 Analyst: BAD  
 Percent Solids: 91%

Extraction Method:

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

|                                           |  |  |  |  |  |  |
|-------------------------------------------|--|--|--|--|--|--|
| Gasoline Range Organics - Westborough Lab |  |  |  |  |  |  |
|-------------------------------------------|--|--|--|--|--|--|

|              |      |   |       |      |      |   |
|--------------|------|---|-------|------|------|---|
| TPH (C6-C12) | 1.89 | J | mg/kg | 7.00 | 1.82 | 1 |
|--------------|------|---|-------|------|------|---|

| Surrogate              | % Recovery | Qualifier | Acceptance Criteria |
|------------------------|------------|-----------|---------------------|
| 1,1,1-Trifluorotoluene | 99         |           | 70-130              |
| 4-Bromofluorobenzene   | 104        |           | 70-130              |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**SAMPLE RESULTS**

**Lab ID:** L2301501-08  
**Client ID:** SB-01-08-10  
**Sample Location:** Not Specified

**Date Collected:** 01/10/23 14:05  
**Date Received:** 01/11/23  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8015D(M)  
**Analytical Date:** 01/15/23 17:09  
**Analyst:** SR  
**Percent Solids:** 91%

**Extraction Method:** EPA 3546  
**Extraction Date:** 01/12/23 11:46

| Parameter                                           | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|-----------------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| Diesel Range & Oil Range Organics - Westborough Lab |            |           |           |                     |      |                 |
| TPH (C10-C20)                                       | 17.7       |           | mg/kg     | 15.7                | 1.39 | 1               |
| TPH (C20-C34)                                       | 24.9       |           | mg/kg     | 15.7                | 1.85 | 1               |
| Surrogate                                           | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| o-Terphenyl                                         | 77         |           |           | 40-140              |      |                 |

Project Name: CUY-77-11.21 PID 10573

Lab Number: L2301501

Project Number: 301525.1000

Report Date: 01/18/23

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8015D(M)  
 Analytical Date: 01/15/23 16:44  
 Analyst: SR

Extraction Method: EPA 3546  
 Extraction Date: 01/12/23 11:46

| Parameter                                                                                   | Result | Qualifier | Units | RL   | MDL  |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Diesel Range & Oil Range Organics - Westborough Lab for sample(s): 01-08 Batch: WG1732740-1 |        |           |       |      |      |
| TPH (C10-C20)                                                                               | ND     |           | mg/kg | 14.8 | 1.31 |
| TPH (C20-C34)                                                                               | 4.61   | J         | mg/kg | 14.8 | 1.75 |

| Surrogate   | %Recovery | Qualifier | Acceptance<br>Criteria |
|-------------|-----------|-----------|------------------------|
| o-Terphenyl | 80        |           | 40-140                 |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8015D(M)  
Analytical Date: 01/12/23 19:03  
Analyst: BAD

| Parameter                                                                         | Result | Qualifier | Units | RL   | MDL  |
|-----------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Gasoline Range Organics - Westborough Lab for sample(s): 01-08 Batch: WG1733159-4 |        |           |       |      |      |
| TPH (C6-C12)                                                                      | ND     |           | mg/kg | 5.00 | 1.30 |

| Surrogate              | %Recovery | Qualifier | Acceptance<br>Criteria |
|------------------------|-----------|-----------|------------------------|
| 1,1,1-Trifluorotoluene | 96        |           | 70-130                 |
| 4-Bromofluorobenzene   | 90        |           | 70-130                 |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: CUY-77-11.21 PID 10573

Project Number: 301525.1000

Lab Number: L2301501

Report Date: 01/18/23

| Parameter                                                                                          | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Diesel Range & Oil Range Organics - Westborough Lab Associated sample(s): 01-08 Batch: WG1732740-2 |                  |      |                   |      |                     |     |      |               |
| TPH (C10-C20)                                                                                      | 126              |      | -                 |      | 40-140              | -   |      | 40            |
| TPH (C20-C34)                                                                                      | 80               |      | -                 |      | 40-140              | -   |      | 40            |

| Surrogate   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-------------|------------------|------|-------------------|------|------------------------|
| o-Terphenyl | 75               |      |                   |      | 40-140                 |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: CUY-77-11.21 PID 10573

Lab Number: L2301501

Project Number: 301525.1000

Report Date: 01/18/23

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Gasoline Range Organics - Westborough Lab Associated sample(s): 01-08 Batch: WG1733159-2 WG1733159-3 |                  |      |                   |      |                     |     |      |               |
| TPH (C6-C12)                                                                                         | 90               |      | 98                |      | 80-120              | 9   |      | 20            |

| Surrogate              | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|------------------------|------------------|------|-------------------|------|------------------------|
| 1,1,1-Trifluorotoluene | 101              |      | 100               |      | 70-130                 |
| 4-Bromofluorobenzene   | 96               |      | 94                |      | 70-130                 |



# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** CUY-77-11.21 PID 10573

**Project Number:** 301525.1000

**Lab Number:** L2301501

**Report Date:** 01/18/23

| Parameter                                                                                                                                              | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Diesel Range & Oil Range Organics - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1732740-3 QC Sample: L2301501-08 Client ID: SB-01-08-10 |               |                  |       |     |      |            |
| TPH (C10-C20)                                                                                                                                          | 17.7          | 38.6             | mg/kg | 74  | Q    | 40         |
| TPH (C20-C34)                                                                                                                                          | 24.9          | 27.8             | mg/kg | 11  |      | 40         |

| Surrogate   | %Recovery | Qualifier | %Recovery | Qualifier | Acceptance Criteria |
|-------------|-----------|-----------|-----------|-----------|---------------------|
| o-Terphenyl | 77        |           | 81        |           | 40-140              |

## METALS

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS**

Lab ID: L2301501-01

Date Collected: 01/10/23 11:05

Client ID: SB-08-08-10

Date Received: 01/11/23

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Prep<br>Method | Analytical<br>Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                    |                  |                  |                |                      |         |
| Arsenic, Total               | 9.72   |           | mg/kg | 0.486 | 0.101 | 1                  | 01/12/23 20:45   | 01/13/23 13:34   | EPA 3050B      | 1,6010D              | DMB     |
| Barium, Total                | 28.8   |           | mg/kg | 0.486 | 0.085 | 1                  | 01/12/23 20:45   | 01/13/23 13:34   | EPA 3050B      | 1,6010D              | DMB     |
| Cadmium, Total               | 0.309  | J         | mg/kg | 0.486 | 0.048 | 1                  | 01/12/23 20:45   | 01/13/23 13:34   | EPA 3050B      | 1,6010D              | DMB     |
| Chromium, Total              | 7.63   |           | mg/kg | 0.486 | 0.047 | 1                  | 01/12/23 20:45   | 01/13/23 13:34   | EPA 3050B      | 1,6010D              | DMB     |
| Lead, Total                  | 10.7   |           | mg/kg | 2.43  | 0.130 | 1                  | 01/12/23 20:45   | 01/13/23 13:34   | EPA 3050B      | 1,6010D              | DMB     |
| Mercury, Total               | ND     |           | mg/kg | 0.087 | 0.057 | 1                  | 01/12/23 21:37   | 01/13/23 19:37   | EPA 7471B      | 1,7471B              | DJR     |
| Selenium, Total              | 0.165  | J         | mg/kg | 0.972 | 0.125 | 1                  | 01/12/23 20:45   | 01/13/23 13:34   | EPA 3050B      | 1,6010D              | DMB     |
| Silver, Total                | 0.161  | J         | mg/kg | 0.243 | 0.137 | 1                  | 01/12/23 20:45   | 01/13/23 13:34   | EPA 3050B      | 1,6010D              | DMB     |



**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS**

Lab ID: L2301501-02

Date Collected: 01/10/23 11:35

Client ID: SB-07-03-05

Date Received: 01/11/23

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Arsenic, Total               | 15.0   |           | mg/kg | 0.468 | 0.097 | 1               | 01/12/23 20:45 | 01/13/23 13:38 | EPA 3050B   | 1,6010D           | DMB     |
| Barium, Total                | 45.7   |           | mg/kg | 0.468 | 0.081 | 1               | 01/12/23 20:45 | 01/13/23 13:38 | EPA 3050B   | 1,6010D           | DMB     |
| Cadmium, Total               | 0.622  |           | mg/kg | 0.468 | 0.046 | 1               | 01/12/23 20:45 | 01/13/23 13:38 | EPA 3050B   | 1,6010D           | DMB     |
| Chromium, Total              | 11.8   |           | mg/kg | 0.468 | 0.045 | 1               | 01/12/23 20:45 | 01/13/23 13:38 | EPA 3050B   | 1,6010D           | DMB     |
| Lead, Total                  | 20.6   |           | mg/kg | 2.34  | 0.125 | 1               | 01/12/23 20:45 | 01/13/23 13:38 | EPA 3050B   | 1,6010D           | DMB     |
| Mercury, Total               | ND     |           | mg/kg | 0.076 | 0.049 | 1               | 01/12/23 21:37 | 01/13/23 19:40 | EPA 7471B   | 1,7471B           | DJR     |
| Selenium, Total              | 0.219  | J         | mg/kg | 0.936 | 0.121 | 1               | 01/12/23 20:45 | 01/13/23 13:38 | EPA 3050B   | 1,6010D           | DMB     |
| Silver, Total                | 0.157  | J         | mg/kg | 0.234 | 0.132 | 1               | 01/12/23 20:45 | 01/13/23 13:38 | EPA 3050B   | 1,6010D           | DMB     |



**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS**

Lab ID: L2301501-03

Date Collected: 01/10/23 12:05

Client ID: SB-06-00-02

Date Received: 01/11/23

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Prep<br>Method | Analytical<br>Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                    |                  |                  |                |                      |         |
| Arsenic, Total               | 15.0   |           | mg/kg | 0.450 | 0.094 | 1                  | 01/12/23 20:45   | 01/13/23 13:41   | EPA 3050B      | 1,6010D              | DMB     |
| Barium, Total                | 219    |           | mg/kg | 0.450 | 0.078 | 1                  | 01/12/23 20:45   | 01/13/23 13:41   | EPA 3050B      | 1,6010D              | DMB     |
| Cadmium, Total               | 0.580  |           | mg/kg | 0.450 | 0.044 | 1                  | 01/12/23 20:45   | 01/13/23 13:41   | EPA 3050B      | 1,6010D              | DMB     |
| Chromium, Total              | 13.9   |           | mg/kg | 0.450 | 0.043 | 1                  | 01/12/23 20:45   | 01/13/23 13:41   | EPA 3050B      | 1,6010D              | DMB     |
| Lead, Total                  | 185    |           | mg/kg | 2.25  | 0.120 | 1                  | 01/12/23 20:45   | 01/13/23 13:41   | EPA 3050B      | 1,6010D              | DMB     |
| Mercury, Total               | 0.064  | J         | mg/kg | 0.080 | 0.052 | 1                  | 01/12/23 21:37   | 01/13/23 19:43   | EPA 7471B      | 1,7471B              | DJR     |
| Selenium, Total              | 0.937  |           | mg/kg | 0.900 | 0.116 | 1                  | 01/12/23 20:45   | 01/13/23 13:41   | EPA 3050B      | 1,6010D              | DMB     |
| Silver, Total                | 0.226  |           | mg/kg | 0.225 | 0.127 | 1                  | 01/12/23 20:45   | 01/13/23 13:41   | EPA 3050B      | 1,6010D              | DMB     |



**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS**

Lab ID: L2301501-04

Date Collected: 01/10/23 12:30

Client ID: SB-05-07-09

Date Received: 01/11/23

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Prep<br>Method | Analytical<br>Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                    |                  |                  |                |                      |         |
| Arsenic, Total               | 11.3   |           | mg/kg | 0.456 | 0.095 | 1                  | 01/12/23 20:45   | 01/13/23 14:03   | EPA 3050B      | 1,6010D              | DMB     |
| Barium, Total                | 33.8   |           | mg/kg | 0.456 | 0.079 | 1                  | 01/12/23 20:45   | 01/13/23 14:03   | EPA 3050B      | 1,6010D              | DMB     |
| Cadmium, Total               | 0.339  | J         | mg/kg | 0.456 | 0.045 | 1                  | 01/12/23 20:45   | 01/13/23 14:03   | EPA 3050B      | 1,6010D              | DMB     |
| Chromium, Total              | 10.5   |           | mg/kg | 0.456 | 0.044 | 1                  | 01/12/23 20:45   | 01/13/23 14:03   | EPA 3050B      | 1,6010D              | DMB     |
| Lead, Total                  | 28.1   |           | mg/kg | 2.28  | 0.122 | 1                  | 01/12/23 20:45   | 01/13/23 14:03   | EPA 3050B      | 1,6010D              | DMB     |
| Mercury, Total               | ND     |           | mg/kg | 0.079 | 0.052 | 1                  | 01/12/23 21:37   | 01/13/23 19:47   | EPA 7471B      | 1,7471B              | DJR     |
| Selenium, Total              | 0.243  | J         | mg/kg | 0.912 | 0.118 | 1                  | 01/12/23 20:45   | 01/13/23 14:03   | EPA 3050B      | 1,6010D              | DMB     |
| Silver, Total                | 0.172  | J         | mg/kg | 0.228 | 0.129 | 1                  | 01/12/23 20:45   | 01/13/23 14:03   | EPA 3050B      | 1,6010D              | DMB     |





**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS**

Lab ID: L2301501-05

Date Collected: 01/10/23 12:55

Client ID: SB-04-02-04

Date Received: 01/11/23

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Prep<br>Method | Analytical<br>Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                    |                  |                  |                |                      |         |
| Arsenic, Total               | 13.2   |           | mg/kg | 0.472 | 0.098 | 1                  | 01/12/23 20:45   | 01/13/23 14:07   | EPA 3050B      | 1,6010D              | DMB     |
| Barium, Total                | 72.9   |           | mg/kg | 0.472 | 0.082 | 1                  | 01/12/23 20:45   | 01/13/23 14:07   | EPA 3050B      | 1,6010D              | DMB     |
| Cadmium, Total               | 0.434  | J         | mg/kg | 0.472 | 0.046 | 1                  | 01/12/23 20:45   | 01/13/23 14:07   | EPA 3050B      | 1,6010D              | DMB     |
| Chromium, Total              | 14.8   |           | mg/kg | 0.472 | 0.045 | 1                  | 01/12/23 20:45   | 01/13/23 14:07   | EPA 3050B      | 1,6010D              | DMB     |
| Lead, Total                  | 13.9   |           | mg/kg | 2.36  | 0.126 | 1                  | 01/12/23 20:45   | 01/13/23 14:07   | EPA 3050B      | 1,6010D              | DMB     |
| Mercury, Total               | ND     |           | mg/kg | 0.081 | 0.053 | 1                  | 01/12/23 21:37   | 01/13/23 19:57   | EPA 7471B      | 1,7471B              | DJR     |
| Selenium, Total              | ND     |           | mg/kg | 0.943 | 0.122 | 1                  | 01/12/23 20:45   | 01/13/23 14:07   | EPA 3050B      | 1,6010D              | DMB     |
| Silver, Total                | 0.161  | J         | mg/kg | 0.236 | 0.133 | 1                  | 01/12/23 20:45   | 01/13/23 14:07   | EPA 3050B      | 1,6010D              | DMB     |



**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS**

Lab ID: L2301501-06

Date Collected: 01/10/23 13:10

Client ID: SB-03-08-10

Date Received: 01/11/23

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Prep<br>Method | Analytical<br>Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                    |                  |                  |                |                      |         |
| Arsenic, Total               | 9.66   |           | mg/kg | 0.447 | 0.093 | 1                  | 01/12/23 20:45   | 01/13/23 14:10   | EPA 3050B      | 1,6010D              | DMB     |
| Barium, Total                | 23.7   |           | mg/kg | 0.447 | 0.078 | 1                  | 01/12/23 20:45   | 01/13/23 14:10   | EPA 3050B      | 1,6010D              | DMB     |
| Cadmium, Total               | 0.270  | J         | mg/kg | 0.447 | 0.044 | 1                  | 01/12/23 20:45   | 01/13/23 14:10   | EPA 3050B      | 1,6010D              | DMB     |
| Chromium, Total              | 5.66   |           | mg/kg | 0.447 | 0.043 | 1                  | 01/12/23 20:45   | 01/13/23 14:10   | EPA 3050B      | 1,6010D              | DMB     |
| Lead, Total                  | 8.25   |           | mg/kg | 2.23  | 0.120 | 1                  | 01/12/23 20:45   | 01/13/23 14:10   | EPA 3050B      | 1,6010D              | DMB     |
| Mercury, Total               | ND     |           | mg/kg | 0.082 | 0.053 | 1                  | 01/12/23 21:37   | 01/13/23 20:00   | EPA 7471B      | 1,7471B              | DJR     |
| Selenium, Total              | 0.178  | J         | mg/kg | 0.893 | 0.115 | 1                  | 01/12/23 20:45   | 01/13/23 14:10   | EPA 3050B      | 1,6010D              | DMB     |
| Silver, Total                | 0.146  | J         | mg/kg | 0.223 | 0.126 | 1                  | 01/12/23 20:45   | 01/13/23 14:10   | EPA 3050B      | 1,6010D              | DMB     |



**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS**

Lab ID: L2301501-07

Date Collected: 01/10/23 13:35

Client ID: SB-02-00-02

Date Received: 01/11/23

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Prep<br>Method | Analytical<br>Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                    |                  |                  |                |                      |         |
| Arsenic, Total               | 10.7   |           | mg/kg | 0.440 | 0.092 | 1                  | 01/12/23 20:45   | 01/13/23 14:14   | EPA 3050B      | 1,6010D              | DMB     |
| Barium, Total                | 83.8   |           | mg/kg | 0.440 | 0.077 | 1                  | 01/12/23 20:45   | 01/13/23 14:14   | EPA 3050B      | 1,6010D              | DMB     |
| Cadmium, Total               | 1.73   |           | mg/kg | 0.440 | 0.043 | 1                  | 01/12/23 20:45   | 01/13/23 14:14   | EPA 3050B      | 1,6010D              | DMB     |
| Chromium, Total              | 307    |           | mg/kg | 0.440 | 0.042 | 1                  | 01/12/23 20:45   | 01/13/23 14:14   | EPA 3050B      | 1,6010D              | DMB     |
| Lead, Total                  | 27.0   |           | mg/kg | 2.20  | 0.118 | 1                  | 01/12/23 20:45   | 01/13/23 14:14   | EPA 3050B      | 1,6010D              | DMB     |
| Mercury, Total               | ND     |           | mg/kg | 0.079 | 0.051 | 1                  | 01/12/23 21:37   | 01/13/23 20:03   | EPA 7471B      | 1,7471B              | DJR     |
| Selenium, Total              | 1.01   |           | mg/kg | 0.880 | 0.113 | 1                  | 01/12/23 20:45   | 01/13/23 14:14   | EPA 3050B      | 1,6010D              | DMB     |
| Silver, Total                | ND     |           | mg/kg | 0.440 | 0.249 | 2                  | 01/12/23 20:45   | 01/13/23 15:54   | EPA 3050B      | 1,6010D              | DMB     |



**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23**SAMPLE RESULTS**

Lab ID: L2301501-08

Date Collected: 01/10/23 14:05

Client ID: SB-01-08-10

Date Received: 01/11/23

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Prep<br>Method | Analytical<br>Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                    |                  |                  |                |                      |         |
| Arsenic, Total               | 8.16   |           | mg/kg | 0.438 | 0.091 | 1                  | 01/12/23 20:45   | 01/13/23 14:17   | EPA 3050B      | 1,6010D              | DMB     |
| Barium, Total                | 81.0   |           | mg/kg | 0.438 | 0.076 | 1                  | 01/12/23 20:45   | 01/13/23 14:17   | EPA 3050B      | 1,6010D              | DMB     |
| Cadmium, Total               | 0.238  | J         | mg/kg | 0.438 | 0.043 | 1                  | 01/12/23 20:45   | 01/13/23 14:17   | EPA 3050B      | 1,6010D              | DMB     |
| Chromium, Total              | 4.91   |           | mg/kg | 0.438 | 0.042 | 1                  | 01/12/23 20:45   | 01/13/23 14:17   | EPA 3050B      | 1,6010D              | DMB     |
| Lead, Total                  | 8.92   |           | mg/kg | 2.19  | 0.117 | 1                  | 01/12/23 20:45   | 01/13/23 14:17   | EPA 3050B      | 1,6010D              | DMB     |
| Mercury, Total               | ND     |           | mg/kg | 0.078 | 0.051 | 1                  | 01/12/23 21:37   | 01/13/23 20:06   | EPA 7471B      | 1,7471B              | DJR     |
| Selenium, Total              | 0.152  | J         | mg/kg | 0.876 | 0.113 | 1                  | 01/12/23 20:45   | 01/13/23 14:17   | EPA 3050B      | 1,6010D              | DMB     |
| Silver, Total                | 0.126  | J         | mg/kg | 0.219 | 0.124 | 1                  | 01/12/23 20:45   | 01/13/23 14:17   | EPA 3050B      | 1,6010D              | DMB     |



Project Name: CUY-77-11.21 PID 10573

Lab Number: L2301501

Project Number: 301525.1000

Report Date: 01/18/23

## Method Blank Analysis Batch Quality Control

| Parameter                                                            | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|----------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1732825-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Arsenic, Total                                                       | ND     |           | mg/kg | 0.400 | 0.083 | 1                  | 01/12/23 20:45   | 01/13/23 12:33   | 1,6010D              | DMB     |
| Barium, Total                                                        | ND     |           | mg/kg | 0.400 | 0.070 | 1                  | 01/12/23 20:45   | 01/13/23 12:33   | 1,6010D              | DMB     |
| Cadmium, Total                                                       | ND     |           | mg/kg | 0.400 | 0.039 | 1                  | 01/12/23 20:45   | 01/13/23 12:33   | 1,6010D              | DMB     |
| Chromium, Total                                                      | ND     |           | mg/kg | 0.400 | 0.038 | 1                  | 01/12/23 20:45   | 01/13/23 12:33   | 1,6010D              | DMB     |
| Lead, Total                                                          | ND     |           | mg/kg | 2.00  | 0.107 | 1                  | 01/12/23 20:45   | 01/13/23 12:33   | 1,6010D              | DMB     |
| Selenium, Total                                                      | ND     |           | mg/kg | 0.800 | 0.103 | 1                  | 01/12/23 20:45   | 01/13/23 12:33   | 1,6010D              | DMB     |
| Silver, Total                                                        | ND     |           | mg/kg | 0.200 | 0.113 | 1                  | 01/12/23 20:45   | 01/13/23 12:33   | 1,6010D              | DMB     |

### Prep Information

Digestion Method: EPA 3050B

| Parameter                                                            | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|----------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1732826-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Mercury, Total                                                       | ND     |           | mg/kg | 0.083 | 0.054 | 1                  | 01/12/23 21:37   | 01/13/23 19:17   | 1,7471B              | DJR     |

### Prep Information

Digestion Method: EPA 7471B



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** CUY-77-11.21 PID 10573

**Project Number:** 301525.1000

**Lab Number:** L2301501

**Report Date:** 01/18/23

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1732825-2 SRM Lot Number: D116-540 |                  |      |                   |      |                     |     |      |            |
| Arsenic, Total                                                                                       | 104              |      | -                 |      | 82-119              | -   |      |            |
| Barium, Total                                                                                        | 90               |      | -                 |      | 82-118              | -   |      |            |
| Cadmium, Total                                                                                       | 105              |      | -                 |      | 82-118              | -   |      |            |
| Chromium, Total                                                                                      | 99               |      | -                 |      | 81-118              | -   |      |            |
| Lead, Total                                                                                          | 98               |      | -                 |      | 83-117              | -   |      |            |
| Selenium, Total                                                                                      | 105              |      | -                 |      | 78-122              | -   |      |            |
| Silver, Total                                                                                        | 103              |      | -                 |      | 79-121              | -   |      |            |
| Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1732826-2 SRM Lot Number: D116-540 |                  |      |                   |      |                     |     |      |            |
| Mercury, Total                                                                                       | 100              |      | -                 |      | 58-142              | -   |      |            |



# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** CUY-77-11.21 PID 10573

**Project Number:** 301525.1000

**Lab Number:** L2301501

**Report Date:** 01/18/23

| Parameter                                                                                                                     | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|-------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1732825-3 QC Sample: L2301349-01 Client ID: MS Sample |               |          |          |              |      |           |               |      |                 |     |      |            |
| Arsenic, Total                                                                                                                | 79.8          | 11.2     | 86.4     | 59           | Q    | -         | -             |      | 75-125          | -   |      | 20         |
| Barium, Total                                                                                                                 | 58.7          | 187      | 224      | 88           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Cadmium, Total                                                                                                                | 1.01          | 4.96     | 5.10     | 82           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Chromium, Total                                                                                                               | 22.1          | 18.7     | 40.8     | 100          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Lead, Total                                                                                                                   | 147           | 49.6     | 198      | 103          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Selenium, Total                                                                                                               | 0.468J        | 11.2     | 13.1     | 117          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Silver, Total                                                                                                                 | 0.421         | 28       | 30.2     | 106          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1732826-3 QC Sample: L2301435-01 Client ID: MS Sample |               |          |          |              |      |           |               |      |                 |     |      |            |
| Mercury, Total                                                                                                                | ND            | 1.4      | 1.43     | 102          |      | -         | -             |      | 80-120          | -   |      | 20         |

# **Lab Duplicate Analysis** *Batch Quality Control*

**Project Name:** CUY-77-11.21 PID 10573

**Project Number:** 301525.1000

**Lab Number:** L2301501

**Report Date:** 01/18/23

| Parameter                                                                                                                      | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1732825-4 QC Sample: L2301349-01 Client ID: DUP Sample |               |                  |       |     |      |            |
| Arsenic, Total                                                                                                                 | 79.8          | 69.3             | mg/kg | 14  |      | 20         |
| Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1732826-4 QC Sample: L2301435-01 Client ID: DUP Sample |               |                  |       |     |      |            |
| Mercury, Total                                                                                                                 | ND            | ND               | mg/kg | NC  |      | 20         |

# **INORGANICS & MISCELLANEOUS**

**Project Name:** CUY-77-11.21 PID 10573**Project Number:** 301525.1000**Lab Number:** L2301501**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-01**Client ID:** SB-08-08-10**Sample Location:** Not Specified**Date Collected:** 01/10/23 11:05**Date Received:** 01/11/23**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 79.6   |           | %     | 0.100 | NA  | 1                  | -                | 01/12/23 10:06   | 121,2540G            | ROI     |



**Project Name:** CUY-77-11.21 PID 10573**Project Number:** 301525.1000**Lab Number:** L2301501**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-02**Client ID:** SB-07-03-05**Sample Location:** Not Specified**Date Collected:** 01/10/23 11:35**Date Received:** 01/11/23**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 84.0   |           | %     | 0.100 | NA  | 1                  | -                | 01/12/23 10:06   | 121,2540G            | ROI     |



**Project Name:** CUY-77-11.21 PID 10573**Project Number:** 301525.1000**Lab Number:** L2301501**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-03**Client ID:** SB-06-00-02**Sample Location:** Not Specified**Date Collected:** 01/10/23 12:05**Date Received:** 01/11/23**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 85.1   |           | %     | 0.100 | NA  | 1                  | -                | 01/12/23 10:06   | 121,2540G            | ROI     |



**Project Name:** CUY-77-11.21 PID 10573**Project Number:** 301525.1000**Lab Number:** L2301501**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-04**Client ID:** SB-05-07-09**Sample Location:** Not Specified**Date Collected:** 01/10/23 12:30**Date Received:** 01/11/23**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 85.8   |           | %     | 0.100 | NA  | 1                  | -                | 01/12/23 10:06   | 121,2540G            | ROI     |





**Project Name:** CUY-77-11.21 PID 10573**Project Number:** 301525.1000**Lab Number:** L2301501**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-05**Client ID:** SB-04-02-04**Sample Location:** Not Specified**Date Collected:** 01/10/23 12:55**Date Received:** 01/11/23**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 83.4   |           | %     | 0.100 | NA  | 1                  | -                | 01/12/23 10:06   | 121,2540G            | ROI     |



**Project Name:** CUY-77-11.21 PID 10573**Project Number:** 301525.1000**Lab Number:** L2301501**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-06**Client ID:** SB-03-08-10**Sample Location:** Not Specified**Date Collected:** 01/10/23 13:10**Date Received:** 01/11/23**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 87.1   |           | %     | 0.100 | NA  | 1                  | -                | 01/12/23 10:06   | 121,2540G            | ROI     |



**Project Name:** CUY-77-11.21 PID 10573**Project Number:** 301525.1000**Lab Number:** L2301501**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-07**Client ID:** SB-02-00-02**Sample Location:** Not Specified**Date Collected:** 01/10/23 13:35**Date Received:** 01/11/23**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 88.0   |           | %     | 0.100 | NA  | 1                  | -                | 01/12/23 10:06   | 121,2540G            | ROI     |



**Project Name:** CUY-77-11.21 PID 10573**Project Number:** 301525.1000**Lab Number:** L2301501**Report Date:** 01/18/23**SAMPLE RESULTS****Lab ID:** L2301501-08**Client ID:** SB-01-08-10**Sample Location:** Not Specified**Date Collected:** 01/10/23 14:05**Date Received:** 01/11/23**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 91.3   |           | %     | 0.100 | NA  | 1                  | -                | 01/12/23 10:06   | 121,2540G            | ROI     |



**Lab Duplicate Analysis**  
*Batch Quality Control***Project Name:** CUY-77-11.21 PID 10573**Project Number:** 301525.1000**Lab Number:** L2301501**Report Date:** 01/18/23

| Parameter                                                                                                                             | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1732570-1 QC Sample: L2301751-04 Client ID: DUP Sample |               |                  |       |     |      |            |
| Solids, Total                                                                                                                         | 79.9          | 80.1             | %     | 0   |      | 20         |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

Serial\_No:01182314:24  
**Lab Number:** L2301501  
**Report Date:** 01/18/23

### 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(*)                                                                           |
|--------------|----------------------------------------|--------|------------|----------|------------|------|--------|------------------|---------------------------------------------------------------------------------------|
| L2301501-01A | Vial MeOH preserved                    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8260HLW(14)                                                                        |
| L2301501-01B | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-01C | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-01D | Plastic 120ml unpreserved              | A      | NA         |          | 2.7        | Y    | Absent |                  | TS(7)                                                                                 |
| L2301501-01E | Glass 60mL/2oz w/ septa unpreserved    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-GRO(14)                                                                            |
| L2301501-01F | Metals Only-Glass 60mL/2oz unpreserved | A      | NA         |          | 2.7        | Y    | Absent |                  | BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180) |
| L2301501-01G | Glass 250ml/8oz unpreserved            | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8270(14),OH-DRO/ORO(14)                                                            |
| L2301501-02A | Vial MeOH preserved                    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8260HLW(14)                                                                        |
| L2301501-02B | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-02C | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-02D | Plastic 120ml unpreserved              | A      | NA         |          | 2.7        | Y    | Absent |                  | TS(7)                                                                                 |
| L2301501-02E | Glass 60mL/2oz w/ septa unpreserved    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-GRO(14)                                                                            |
| L2301501-02F | Metals Only-Glass 60mL/2oz unpreserved | A      | NA         |          | 2.7        | Y    | Absent |                  | AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180) |
| L2301501-02G | Glass 250ml/8oz unpreserved            | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8270(14),OH-DRO/ORO(14)                                                            |
| L2301501-03A | Vial MeOH preserved                    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8260HLW(14)                                                                        |
| L2301501-03B | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-03C | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-03D | Plastic 120ml unpreserved              | A      | NA         |          | 2.7        | Y    | Absent |                  | TS(7)                                                                                 |
| L2301501-03E | Glass 60mL/2oz w/ septa unpreserved    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-GRO(14)                                                                            |
| L2301501-03F | Metals Only-Glass 60mL/2oz unpreserved | A      | NA         |          | 2.7        | Y    | Absent |                  | AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),HG-T(28),CD-TI(180) |

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

Serial\_No:01182314:24  
**Lab Number:** L2301501  
**Report Date:** 01/18/23

**Container Information**

| Container ID | Container Type                         | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal   | Frozen Date/Time | Analysis(*)                                                                           |
|--------------|----------------------------------------|--------|------------|----------|------------|------|--------|------------------|---------------------------------------------------------------------------------------|
| L2301501-03G | Glass 250ml/8oz unpreserved            | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8270(14),OH-DRO/ORO(14)                                                            |
| L2301501-04A | Vial MeOH preserved                    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8260HLW(14)                                                                        |
| L2301501-04B | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-04C | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-04D | Plastic 120ml unpreserved              | A      | NA         |          | 2.7        | Y    | Absent |                  | TS(7)                                                                                 |
| L2301501-04E | Glass 60mL/2oz w/ septa unpreserved    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-GRO(14)                                                                            |
| L2301501-04F | Metals Only-Glass 60mL/2oz unpreserved | A      | NA         |          | 2.7        | Y    | Absent |                  | AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180) |
| L2301501-04G | Glass 250ml/8oz unpreserved            | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8270(14),OH-DRO/ORO(14)                                                            |
| L2301501-05A | Vial MeOH preserved                    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8260HLW(14)                                                                        |
| L2301501-05B | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-05C | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-05D | Plastic 120ml unpreserved              | A      | NA         |          | 2.7        | Y    | Absent |                  | TS(7)                                                                                 |
| L2301501-05E | Glass 60mL/2oz w/ septa unpreserved    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-GRO(14)                                                                            |
| L2301501-05F | Metals Only-Glass 60mL/2oz unpreserved | A      | NA         |          | 2.7        | Y    | Absent |                  | BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180) |
| L2301501-05G | Glass 250ml/8oz unpreserved            | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8270(14),OH-DRO/ORO(14)                                                            |
| L2301501-06A | Vial MeOH preserved                    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8260HLW(14)                                                                        |
| L2301501-06B | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-06C | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-06D | Plastic 120ml unpreserved              | A      | NA         |          | 2.7        | Y    | Absent |                  | TS(7)                                                                                 |
| L2301501-06E | Glass 60mL/2oz w/ septa unpreserved    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-GRO(14)                                                                            |
| L2301501-06F | Metals Only-Glass 60mL/2oz unpreserved | A      | NA         |          | 2.7        | Y    | Absent |                  | AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180) |
| L2301501-06G | Glass 250ml/8oz unpreserved            | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8270(14),OH-DRO/ORO(14)                                                            |
| L2301501-07A | Vial MeOH preserved                    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8260HLW(14)                                                                        |
| L2301501-07B | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-07C | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-07D | Plastic 120ml unpreserved              | A      | NA         |          | 2.7        | Y    | Absent |                  | TS(7)                                                                                 |



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Serial\_No:** 01182314:24  
**Lab Number:** L2301501  
**Report Date:** 01/18/23

**Container Information**

| Container ID | Container Type                         | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal   | Frozen Date/Time | Analysis(*)                                                                           |
|--------------|----------------------------------------|--------|------------|----------|------------|------|--------|------------------|---------------------------------------------------------------------------------------|
| L2301501-07E | Glass 60mL/2oz w/ septa unpreserved    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-GRO(14)                                                                            |
| L2301501-07F | Metals Only-Glass 60mL/2oz unpreserved | A      | NA         |          | 2.7        | Y    | Absent |                  | BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180) |
| L2301501-07G | Glass 250ml/8oz unpreserved            | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8270(14),OH-DRO/ORO(14)                                                            |
| L2301501-08A | Vial MeOH preserved                    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8260HLW(14)                                                                        |
| L2301501-08B | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-08C | Vial water preserved                   | A      | NA         |          | 2.7        | Y    | Absent | 12-JAN-23 03:26  | OH-8260HLW(14)                                                                        |
| L2301501-08D | Plastic 120ml unpreserved              | A      | NA         |          | 2.7        | Y    | Absent |                  | TS(7)                                                                                 |
| L2301501-08E | Glass 60mL/2oz w/ septa unpreserved    | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-GRO(14)                                                                            |
| L2301501-08F | Metals Only-Glass 60mL/2oz unpreserved | A      | NA         |          | 2.7        | Y    | Absent |                  | AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),HG-T(28),CD-TI(180) |
| L2301501-08G | Glass 250ml/8oz unpreserved            | A      | NA         |          | 2.7        | Y    | Absent |                  | OH-8270(14),OH-DRO/ORO(14)                                                            |

**Project Name:** CUY-77-11.21 PID 10573**Lab Number:** L2301501**Project Number:** 301525.1000**Report Date:** 01/18/23

## GLOSSARY

### Acronyms

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DL       | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)                                                                                                                                                                |
| EDL      | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).                                                                                         |
| EMPC     | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.                                                                                                                                                                                                                               |
| EPA      | - Environmental Protection Agency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| LCS      | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.                                                                                                                                                                                                                                                                                                                          |
| LCSD     | - Laboratory Control Sample Duplicate: Refer to LCS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| LFB      | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.                                                                                                                                                                                                                                                                                                                         |
| LOD      | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)                                                                                                                                                                                                               |
| LOQ      | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)<br><br>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:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Chlordane:** The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Gasoline Range Organics (GRO):** Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

**Data Qualifiers**

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

**Project Name:** CUY-77-11.21 PID 10573  
**Project Number:** 301525.1000

**Lab Number:** L2301501  
**Report Date:** 01/18/23

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



**Alpha Analytical, Inc.**Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

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**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, 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.

**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, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



|                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      |                                                                                  |                                    |                                                                                        |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                               |               |                                                                                           |                                                                                                                                                                             |                          |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------|---------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>ALPHA</b><br><small>SERVICES</small>                                                                                                                                                                                                                                     | <b>OHIO CHAIN OF CUSTODY</b><br>Westborough, MA 01581<br>8 Walkup Dr.<br>TEL: 508-898-9220<br>FAX: 508-898-9193                                                                                                                                                                                                                                                                                             |                                                                                                                                      | Mansfield, MA 02048<br>320 Forbes Blvd<br>TEL: 508-822-9300<br>FAX: 508-822-3288 |                                    | <b>Service Centers</b><br>Columbus, OH: (614) 357-3321<br>OHSERVICECENTER@alphalab.com |                                                                                                                       | Page 1<br>of<br>1                                                                                                                                                                                                                                                                                                                                                                                                            |                | Date Rec'd in Lab<br>01/12/23 |               | ALPHA Job #<br>L2301501                                                                   |                                                                                                                                                                             |                          |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                 | <b>Project Information</b><br>Project Name: CUY-77-11.21 RD 105743<br>Project Location:<br>Project # 301525, 1000, Phase GUY, Task 001<br>(Use Project name as Project #) <input type="checkbox"/><br>Project Manager: Melissa Deyo<br>ALPHAQuote #: 20478<br>Turn-Around Time<br>Standard <input checked="" type="checkbox"/> Due Date:<br>Rush (only if pre approved) <input type="checkbox"/> # of Days: |                                                                                                                                      |                                                                                  |                                    |                                                                                        |                                                                                                                       | <b>Deliverables</b><br><input type="checkbox"/> BUSTR QA/QC Form<br><input type="checkbox"/> VAP Affidavit <input type="checkbox"/> Other<br><input type="checkbox"/> EQUIS (1 File) <input checked="" type="checkbox"/> EQUIS (4 File)<br><br><input type="checkbox"/> OH VAP<br><input type="checkbox"/> OH BUSTR<br><input type="checkbox"/> Other:<br><input type="checkbox"/> Other:<br><input type="checkbox"/> Other: |                |                               |               | <b>Billing Information</b><br><input type="checkbox"/> Same as Client Info<br>PO # 193993 |                                                                                                                                                                             |                          |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |
| <b>Client Information</b><br>Client: TRC<br>Address: 1382 W 9th St Suite 400<br>Cleveland, OH 44113<br>Phone: 216-344-3072<br>Fax: -<br>Email: khenry@trccompanies.com                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      |                                                                                  |                                    |                                                                                        | <b>Site Information</b><br>Is this site impacted by Petroleum? Yes <input type="checkbox"/><br><br>Petroleum Product: |                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                               |               |                                                                                           |                                                                                                                                                                             |                          |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |
| These samples have been previously analyzed by Alpha <input type="checkbox"/><br><b>For TPH, selection is REQUIRED:</b><br><input checked="" type="checkbox"/> GRO (C6-C12)<br><input checked="" type="checkbox"/> DRO/ORO (C10-C20/C20-C34)<br><input type="checkbox"/> Other: |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      |                                                                                  |                                    |                                                                                        | <b>Other project specific requirements/comments:</b><br><br>Please specify Metals, i.e. RCRA8, PP13, TAL, etc.        |                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                               |               |                                                                                           | <b>ANALYSIS</b><br><div style="display: flex; justify-content: space-between;"> <span>OH-GRO</span> <span>OH-DRO/ORO</span> <span>Metals/Hg</span> <span>VOLs</span> </div> |                          | <b>Sample Filtration</b><br><input type="checkbox"/> Done<br><input type="checkbox"/> Lab to do<br>Preservation<br><input type="checkbox"/> Lab to do<br><br>(Please Specify below) |   | TOTAL BOOTES                                                                                                                                                                                                                                             |
| ALPHA Lab ID (Lab Use Only)                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                             | Sample ID                                                                                                                            |                                                                                  | Collection                         |                                                                                        | Sample Matrix                                                                                                         | Sampler's Initials                                                                                                                                                                                                                                                                                                                                                                                                           |                |                               |               |                                                                                           |                                                                                                                                                                             | Sample Specific Comments |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      |                                                                                  | Date                               | Time                                                                                   |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                               |               |                                                                                           |                                                                                                                                                                             |                          |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |
| 01501 -01                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                             | SB-08-08-10                                                                                                                          |                                                                                  | 1/10/2023                          | 11:15                                                                                  | So                                                                                                                    | KAH                                                                                                                                                                                                                                                                                                                                                                                                                          | I              | I                             | I             | I                                                                                         |                                                                                                                                                                             |                          |                                                                                                                                                                                     | 4 |                                                                                                                                                                                                                                                          |
| -02                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                             | SB-07-03-05                                                                                                                          |                                                                                  |                                    | 11:35                                                                                  |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | I              | I                             | I             | I                                                                                         |                                                                                                                                                                             |                          |                                                                                                                                                                                     | 4 |                                                                                                                                                                                                                                                          |
| -03                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                             | SB-06-00-02                                                                                                                          |                                                                                  |                                    | 12:05                                                                                  |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | I              | I                             | I             | I                                                                                         |                                                                                                                                                                             |                          |                                                                                                                                                                                     | 4 |                                                                                                                                                                                                                                                          |
| -04                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                             | SB-05-05-07                                                                                                                          |                                                                                  |                                    | 12:30                                                                                  |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | I              | I                             | I             | I                                                                                         |                                                                                                                                                                             |                          |                                                                                                                                                                                     | 4 |                                                                                                                                                                                                                                                          |
| -05                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                             | SB-04-02-04                                                                                                                          |                                                                                  |                                    | 12:55                                                                                  |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | I              | I                             | I             | I                                                                                         |                                                                                                                                                                             |                          |                                                                                                                                                                                     | 4 |                                                                                                                                                                                                                                                          |
| -06                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                             | SB-03-08-10                                                                                                                          |                                                                                  |                                    | 13:10                                                                                  |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | I              | I                             | I             | I                                                                                         |                                                                                                                                                                             |                          |                                                                                                                                                                                     | 4 |                                                                                                                                                                                                                                                          |
| -07                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                             | SB-02-00-02                                                                                                                          |                                                                                  |                                    | 13:35                                                                                  |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | I              | I                             | I             | I                                                                                         |                                                                                                                                                                             |                          |                                                                                                                                                                                     | 4 |                                                                                                                                                                                                                                                          |
| -08                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                             | SB-01-08-10                                                                                                                          |                                                                                  | ✓                                  | 14:05                                                                                  | ✓                                                                                                                     | ✓                                                                                                                                                                                                                                                                                                                                                                                                                            | ✓              | ✓                             | ✓             | ✓                                                                                         |                                                                                                                                                                             |                          |                                                                                                                                                                                     | 4 |                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      |                                                                                  |                                    |                                                                                        |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                               |               |                                                                                           |                                                                                                                                                                             |                          |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |
| Preservative Code:                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                             | Container Code                                                                                                                       |                                                                                  | Westboro: Certification No: MA935  |                                                                                        |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | Container Type |                               | A             | A                                                                                         | A                                                                                                                                                                           | O                        |                                                                                                                                                                                     |   | 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. |
| A = None<br>B = HCl<br>C = HNO <sub>3</sub><br>D = H <sub>2</sub> SO <sub>4</sub><br>E = NaOH<br>F = MeOH<br>G = NaHSO <sub>4</sub><br>H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub><br>K/E = Zn Ac/NaOH<br>O = Other                                                       |                                                                                                                                                                                                                                                                                                                                                                                                             | P = Plastic<br>A = Amber Glass<br>V = Vial<br>G = Glass<br>B = Bacteria Cup<br>C = Cube<br>O = Other<br>E = Encore<br>D = BOD Bottle |                                                                                  | Mansfield: Certification No: MA015 |                                                                                        |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              | Preservative   |                               | A             | A                                                                                         | A                                                                                                                                                                           | F                        |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      |                                                                                  | Relinquished By:                   |                                                                                        | Date/Time                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                              | Received By:   |                               | Date/Time     |                                                                                           |                                                                                                                                                                             |                          |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      |                                                                                  |                                    |                                                                                        | 1/11/2023 4:00                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                               | 1/11/23 09:15 |                                                                                           |                                                                                                                                                                             |                          |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      |                                                                                  |                                    |                                                                                        | 1/11/23 13:00                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                               | 1/11/23 1230  |                                                                                           |                                                                                                                                                                             |                          |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      |                                                                                  |                                    |                                                                                        | 1/11/23 15:30                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                               | 1/11/23 00:10 |                                                                                           |                                                                                                                                                                             |                          |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |
| Form No: 39490 (rev. 19-Mar-2021)                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      |                                                                                  |                                    |                                                                                        |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                               |               |                                                                                           |                                                                                                                                                                             |                          |                                                                                                                                                                                     |   |                                                                                                                                                                                                                                                          |



# Analytical Data Review Checklist

|                                  |                                     |
|----------------------------------|-------------------------------------|
| <b>Site:</b> CUY-77              | <b>Laboratory:</b> Alpha Analytical |
| <b>Location:</b>                 | <b>Lab Report #:</b> L2301501       |
| <b>Client Name:</b> ODOT         | <b>Reviewer:</b> K. Teuscher        |
| <b>Project #:</b> Project number | <b>Peer Reviewer:</b> K. Henry      |
| 301525.1000 Phase 008 Task 001   | <b>Review Date:</b> 1/30/2023       |

|                                                                    |                                  |                                                |
|--------------------------------------------------------------------|----------------------------------|------------------------------------------------|
| <b>Analytical Method(s):</b><br>TPH (DRO/GRO), SVOCs, VOCs, metals | <b>Matrices Sampled:</b><br>soil | <b>Sample Collection Date(s):</b><br>1/10/2023 |
|--------------------------------------------------------------------|----------------------------------|------------------------------------------------|

|                                                        |
|--------------------------------------------------------|
| <b>Sampling Objective(s):</b><br>site characterization |
|--------------------------------------------------------|

|                                                             |
|-------------------------------------------------------------|
| <b>Sample IDs (List IDs or attach COC):</b><br>see attached |
|-------------------------------------------------------------|

| Review Item or Question                                                                                          | Y | N | NA | Comments <sup>a</sup><br>(please add comment for each item with a checked shaded box) |
|------------------------------------------------------------------------------------------------------------------|---|---|----|---------------------------------------------------------------------------------------|
| <b>Pre-Sampling/Lab Qualification</b>                                                                            |   |   |    |                                                                                       |
| 1 Was laboratory National Environmental Laboratory Accreditation (NELAC) accreditation/certification information | x |   |    | NELAC, OVAP                                                                           |
| 2 Were Laboratory Quality Control Limits for spike recoveries checked and found acceptable?                      | x |   |    |                                                                                       |
| 3 Were the sample results reporting format discussed and agreed upon prior to sample collection?                 | x |   |    |                                                                                       |
| 4 Can the lab achieve detection/reporting limits at or below applicable standards?                               | x |   |    |                                                                                       |
| 5 Was laboratory contact information provided?                                                                   | x |   |    |                                                                                       |
| 6 For vapor intrusion (VI) sampling, was a pre-sampling survey and/or inspection conducted                       |   |   | x  |                                                                                       |
| 7 Were Summa canisters batch certified or individually certified clean? Please specify.                          |   |   | x  |                                                                                       |
| <b>Chain-of-Custody and Data Completeness</b>                                                                    |   |   |    |                                                                                       |
| 8 Was COC appropriately completed?                                                                               | x |   |    | see comments below                                                                    |
| 9 Did the laboratory report correct sample IDs?                                                                  | x |   |    | see comments below                                                                    |

# Analytical Data Review Checklist

| Review Item or Question    |                                                                                                                            | Y | N | NA | Comments <sup>a</sup><br>(please add comment for each item with a checked shaded box)                                                                             |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------|---|---|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10                         | Do the laboratory reported sample collection dates and times agree with the COC forms?                                     |   | x |    | Due to discrepancies between sample labels and COC, per TRC's request, lab revised time for sample -01 from 11:15 to 11:05 and sample SB-05-05-07 to SB-05-07-09. |
| 11                         | Are results reported for all analytical methods requested?                                                                 | x |   |    |                                                                                                                                                                   |
| 12                         | Are results reported for all samples submitted for analysis?                                                               | x |   |    |                                                                                                                                                                   |
| 13                         | Were the requested analytical methods used?                                                                                | x |   |    |                                                                                                                                                                   |
| 14                         | Are results reported for all target analytes, but no additional analytes?                                                  | x |   |    |                                                                                                                                                                   |
| 15                         | <b>SOIL/SEDIMENT ONLY:</b> Were soil/sediment results reported on a dry weight basis?                                      | x |   |    |                                                                                                                                                                   |
| 16                         | If requested, were detected results below reporting limit (i.e., "J" values) reported?                                     | x |   |    |                                                                                                                                                                   |
| 17                         | Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats? | x |   |    |                                                                                                                                                                   |
| <b>Sample Preservation</b> |                                                                                                                            |   |   |    |                                                                                                                                                                   |
| 18                         | Did samples arrive at the laboratory appropriately preserved?                                                              | x |   |    |                                                                                                                                                                   |
| 19                         | Was the cooler temperature between 0-6°C?                                                                                  | x |   |    |                                                                                                                                                                   |
| 20                         | Were samples appropriately preserved when required (e.g., aqueous VOC and metals samples)?                                 | x |   |    |                                                                                                                                                                   |
| 21                         | <b>SOIL/SEDIMENT ONLY:</b> Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?         | x |   |    |                                                                                                                                                                   |
| 22                         | Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?                      | x |   |    |                                                                                                                                                                   |
| 23                         | Were any issues noted by the laboratory upon receipt?                                                                      |   | x |    | See COC comments above.                                                                                                                                           |
| 24                         | <b>AIR ONLY:</b> Were canisters received with an acceptable vacuum?                                                        |   |   | x  |                                                                                                                                                                   |
| 25                         | <b>AIR ONLY:</b> Were the RPDs between the initial and final canister flow controller calibrations <20?                    |   |   | x  |                                                                                                                                                                   |
| <b>Holding Times</b>       |                                                                                                                            |   |   |    |                                                                                                                                                                   |
| 26                         | Were sample preparation and analysis holding time requirements met?                                                        | x |   |    |                                                                                                                                                                   |

# Analytical Data Review Checklist

| Review Item or Question                                                                                  |                                                                                                                                                                                                           | Y | N | NA | Comments <sup>a</sup><br>(please add comment for each item with a checked shaded box)                                                                  |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reporting Limits</b>                                                                                  |                                                                                                                                                                                                           |   |   |    |                                                                                                                                                        |
| 27                                                                                                       | Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?                                                                                                                        | x |   |    |                                                                                                                                                        |
| 28                                                                                                       | Were dilutions performed? If so, note sample(s) and parameters(s) affected and the dilution factor(s).                                                                                                    |   | x |    |                                                                                                                                                        |
| 29                                                                                                       | Did the laboratory provide an adequate explanation as to why dilutions were performed?                                                                                                                    |   |   | x  |                                                                                                                                                        |
| <b>QC Results</b>                                                                                        |                                                                                                                                                                                                           |   |   |    |                                                                                                                                                        |
| <b>Blanks<sup>b</sup></b>                                                                                |                                                                                                                                                                                                           |   |   |    |                                                                                                                                                        |
| 30                                                                                                       | Were target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.                                                                            | x |   |    | Bromomethane 0.0017 J, 0.0016 J - <b>no flags</b><br>TPH(C20-34) = 4.61 J - <b>U at RL</b> (see attached)                                              |
| 31                                                                                                       | Does each analytical or preparation batch have its own method blank?                                                                                                                                      | x |   |    |                                                                                                                                                        |
| 32                                                                                                       | Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results). |   |   | x  |                                                                                                                                                        |
| 33                                                                                                       | Are there any potential false positive results based on questions 30 and/or 32?                                                                                                                           |   |   |    |                                                                                                                                                        |
| <b>Laboratory Control Spikes<sup>c</sup></b>                                                             |                                                                                                                                                                                                           |   |   |    |                                                                                                                                                        |
| 34                                                                                                       | Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples.                                                                               |   | x |    | VOCs: C2S 53/52%, 63/57% (59-130) <b>J-</b><br>Chloromethane 152/137% (52-130) <b>no flag</b><br>Bromomethane 153/140% (57-147) <b>already flagged</b> |
| 35                                                                                                       | Does each analytical or preparation batch have its own LCS?                                                                                                                                               | x |   |    |                                                                                                                                                        |
| 36                                                                                                       | Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples.                                                                                                    | x |   |    |                                                                                                                                                        |
| <b>Matrix Spikes<sup>c</sup> Note: If not performed on a project sample, evaluation is not required.</b> |                                                                                                                                                                                                           |   |   |    |                                                                                                                                                        |
| 37                                                                                                       | Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.                                                                              |   |   | x  | not on project samples                                                                                                                                 |

# Analytical Data Review Checklist

| Review Item or Question                                                                                              |                                                                                                                                                                                                                                                                                                                        | Y | N | NA | Comments <sup>a</sup><br>(please add comment for each item with a checked shaded box)                                               |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|-------------------------------------------------------------------------------------------------------------------------------------|
| 38                                                                                                                   | Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was spiked.                                                                                                                                                                                                              |   |   | x  |                                                                                                                                     |
| <b>Surrogates<sup>c</sup></b>                                                                                        |                                                                                                                                                                                                                                                                                                                        |   |   |    |                                                                                                                                     |
| 39                                                                                                                   | <b>ORGANIC ANALYSES ONLY:</b> Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected.                                                                                                                                                                              |   | x |    | VOCs: -06 2 out of 4 surr 164 and 143%(70-130%)                                                                                     |
| <b>Duplicates<sup>c</sup> Note: If field duplicates not performed on project sample, evaluation is not required.</b> |                                                                                                                                                                                                                                                                                                                        |   |   |    |                                                                                                                                     |
| 40                                                                                                                   | Are laboratory duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.                                                                                                                                                                        |   | x |    | TPH(C10-20) RPD = 74% (40) <b>J data</b>                                                                                            |
| 41                                                                                                                   | Were field duplicate criteria met? Refer to RPD and/or Tips tabs for typical criteria. If no, list analytes affected, the RPD and/or absolute difference (as applicable), and the associated samples.                                                                                                                  |   |   | x  |                                                                                                                                     |
| <b>Do the Data Make Sense?</b>                                                                                       |                                                                                                                                                                                                                                                                                                                        |   |   |    |                                                                                                                                     |
| 42                                                                                                                   | Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences) that have not already been addressed above? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results). | x |   |    | VOCs: ISs low for -06 and surrogates high, reanalysis also had exceedances and orig. reported - <b>J+ detects due to pos. bias.</b> |
| 43                                                                                                                   | Were any other potential data quality issues identified? If yes, describe issues.                                                                                                                                                                                                                                      |   | x |    |                                                                                                                                     |
| 44                                                                                                                   | Do any results look questionable? If yes, ASK THE LAB.                                                                                                                                                                                                                                                                 |   | x |    |                                                                                                                                     |
| 45                                                                                                                   | Has the EDD been compared to the lab report?                                                                                                                                                                                                                                                                           | x |   |    |                                                                                                                                     |
| <b>Additional Comments:</b>                                                                                          |                                                                                                                                                                                                                                                                                                                        |   |   |    |                                                                                                                                     |

# Analytical Data Review Checklist

| Review Item or Question | Y | N | NA | <b>Comments<sup>a</sup></b><br>(please add comment for each item with a checked shaded box) |
|-------------------------|---|---|----|---------------------------------------------------------------------------------------------|
|-------------------------|---|---|----|---------------------------------------------------------------------------------------------|

## Notes:

After data tables are created, check that reporting limits are below the project action levels (e.g., screening criteria, remediation standards, etc.) and compare data with historical results, if applicable. List any findings from this evaluation, when applicable, in the Additional Comments box above.

- a Comments generally need to be addressed in the TRC deliverable presenting the laboratory data, but this will be dependent on project requirements.
- b Check if local or regional criteria for blank assessments are available; these will supersede criteria in this checklist.
- c Use QC limits in QAPP, if available. If not, use QC limits provided by laboratory in data package.

## Abbreviations:

|          |                                                                 |
|----------|-----------------------------------------------------------------|
| COC      | Chain-of-Custody                                                |
| EDD      | Electronic Data Deliverable                                     |
| LCS/LCSD | Laboratory Control Sample / Laboratory Control Sample Duplicate |
| MS/MSD   | Matrix Spike / Matrix Spike Duplicate                           |
| QAPP     | Quality Assurance Project Plan                                  |
| QC       | Quality Control                                                 |
| RPD      | Relative Percent Difference                                     |
| VOC      | Volatile Organic Compound                                       |

| LOCATION                          |       | SB-08-08-10 |        | SB-07-03-05 |                | SB-06-00-02 |        | SB-05-07-09 |        | SB-04-02-04 |        | SB-03-08-10 |                | SB-02-00-02 |        | SB-01-08-10 |        |
|-----------------------------------|-------|-------------|--------|-------------|----------------|-------------|--------|-------------|--------|-------------|--------|-------------|----------------|-------------|--------|-------------|--------|
| SAMPLING DATE                     |       | 1/10/2023   |        | 1/10/2023   |                | 1/10/2023   |        | 1/10/2023   |        | 1/10/2023   |        | 1/10/2023   |                | 1/10/2023   |        | 1/10/2023   |        |
| LAB SAMPLE ID                     |       | L2301501-01 |        | L2301501-02 |                | L2301501-03 |        | L2301501-04 |        | L2301501-05 |        | L2301501-06 |                | L2301501-07 |        | L2301501-08 |        |
| SAMPLE TYPE                       |       | SOIL        |        | SOIL        |                | SOIL        |        | SOIL        |        | SOIL        |        | SOIL        |                | SOIL        |        | SOIL        |        |
| SAMPLE DEPTH (ft.)                |       |             |        |             |                |             |        |             |        |             |        |             |                |             |        |             |        |
|                                   | Units | Results     | Qual   | Results     | Qual           | Results     | Qual   | Results     | Qual   | Results     | Qual   | Results     | Qual           | Results     | Qual   | Results     | Qual   |
| Diesel Range & Oil Range Organics |       |             |        |             |                |             |        |             |        |             |        |             |                |             |        |             |        |
| TPH (C10-C20)                     | mg/kg | 38.2        | J (LD) | 25.9        | J (LD)         | 85.7        | J (LD) | 36.8        | J (LD) | 45.8        | J (LD) | 6.69        | J J (LD)       | 275         | J (LD) | 17.7        | J (LD) |
| TPH (C20-C34)                     | mg/kg | 20.2        |        | 8.48        | J-U at RL (MB) | 218         |        | 33          |        | 52.9        |        | 10.2        | J-U at RL (MB) | 333         |        | 24.9        |        |
| Gasoline Range Organics           |       |             |        |             |                |             |        |             |        |             |        |             |                |             |        |             |        |
| TPH (C6-C12)                      | mg/kg | 1.25        | J      | 5.04        | U              | 19.5        |        | 4.25        | U      | 4.91        | U      | 5.01        | U              | 6.14        | J      | 1.89        | J      |
| General Chemistry                 |       |             |        |             |                |             |        |             |        |             |        |             |                |             |        |             |        |
| Solids, Total                     | %     | 79.6        |        | 84          |                | 85.1        |        | 85.8        |        | 83.4        |        | 87.1        |                | 88          |        | 91.3        |        |
| Semivolatile Organics by GC/MS    |       |             |        |             |                |             |        |             |        |             |        |             |                |             |        |             |        |
| Benzaldehyde                      | mg/kg | 0.27        | U      | 0.26        | U              | 0.25        | U      | 0.25        | U      | 0.26        | U      | 0.25        | U              | 0.25        | U      | 0.24        | U      |
| Phenol                            | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| Bis(2-chloroethyl)ether           | mg/kg | 0.19        | U      | 0.18        | U              | 0.17        | U      | 0.17        | U      | 0.18        | U      | 0.17        | U              | 0.17        | U      | 0.16        | U      |
| 2-Chlorophenol                    | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| 2-Methylphenol                    | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| Bis(2-chloroisopropyl)ether       | mg/kg | 0.25        | U      | 0.24        | U              | 0.23        | U      | 0.23        | U      | 0.24        | U      | 0.23        | U              | 0.23        | U      | 0.22        | U      |
| Acetophenone                      | mg/kg | 0.21        | U      | 0.2         | U              | 0.14        | J      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.086       | J      | 0.18        | U      |
| n-Nitrosodi-n-propylamine         | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| 3-Methylphenol/4-Methylphenol     | mg/kg | 0.3         | U      | 0.28        | U              | 0.28        | U      | 0.27        | U      | 0.28        | U      | 0.27        | U              | 0.27        | U      | 0.26        | U      |
| Hexachloroethane                  | mg/kg | 0.16        | U      | 0.16        | U              | 0.15        | U      | 0.15        | U      | 0.16        | U      | 0.15        | U              | 0.15        | U      | 0.14        | U      |
| Nitrobenzene                      | mg/kg | 0.19        | U      | 0.18        | U              | 0.17        | U      | 0.17        | U      | 0.18        | U      | 0.17        | U              | 0.17        | U      | 0.16        | U      |
| Isophorone                        | mg/kg | 0.19        | U      | 0.18        | U              | 0.17        | U      | 0.17        | U      | 0.18        | U      | 0.17        | U              | 0.17        | U      | 0.16        | U      |
| 2-Nitrophenol                     | mg/kg | 0.45        | U      | 0.42        | U              | 0.42        | U      | 0.41        | U      | 0.42        | U      | 0.41        | U              | 0.41        | U      | 0.39        | U      |
| 2,4-Dimethylphenol                | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| Bis(2-chloroethoxy)methane        | mg/kg | 0.22        | U      | 0.21        | U              | 0.21        | U      | 0.2         | U      | 0.21        | U      | 0.2         | U              | 0.2         | U      | 0.2         | U      |
| 2,4-Dichlorophenol                | mg/kg | 0.19        | U      | 0.18        | U              | 0.17        | U      | 0.17        | U      | 0.18        | U      | 0.17        | U              | 0.17        | U      | 0.16        | U      |
| Naphthalene                       | mg/kg | 0.041       | U      | 0.039       | U              | 0.96        |        | 0.038       | U      | 0.039       | U      | 0.11        |                | 2           |        | 0.036       | U      |
| 4-Chloroaniline                   | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| Hexachlorobutadiene               | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| Caprolactam                       | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| p-Chloro-m-cresol                 | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| 2-Methylnaphthalene               | mg/kg | 0.25        | U      | 0.24        | U              | 1.4         |        | 0.034       | J      | 0.24        | U      | 0.13        | J              | 1.9         |        | 0.22        | U      |
| Hexachlorocyclopentadiene         | mg/kg | 0.59        | U      | 0.56        | U              | 0.55        | U      | 0.54        | U      | 0.56        | U      | 0.54        | U              | 0.54        | U      | 0.52        | U      |
| 1,2,4,5-Tetrachlorobenzene        | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| 2,4,6-Trichlorophenol             | mg/kg | 0.12        | U      | 0.12        | U              | 0.12        | U      | 0.11        | U      | 0.12        | U      | 0.11        | U              | 0.11        | U      | 0.11        | U      |
| 2,4,5-Trichlorophenol             | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| Biphenyl                          | mg/kg | 0.47        | U      | 0.45        | U              | 0.18        | J      | 0.43        | U      | 0.45        | U      | 0.43        | U              | 0.52        |        | 0.41        | U      |
| 2-Chloronaphthalene               | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| 2-Nitroaniline                    | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| Dimethyl phthalate                | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| 2,6-Dinitrotoluene                | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| Acenaphthylene                    | mg/kg | 0.16        | U      | 0.16        | U              | 0.19        |        | 0.15        | U      | 0.16        | U      | 0.15        | U              | 0.084       | J      | 0.14        | U      |
| 3-Nitroaniline                    | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| Acenaphthene                      | mg/kg | 0.16        | U      | 0.16        | U              | 0.12        | J      | 0.15        | U      | 0.16        | U      | 0.15        | U              | 0.075       | J      | 0.14        | U      |
| 2,4-Dinitrophenol                 | mg/kg | 1           | U      | 0.94        | U              | 0.92        | U      | 0.91        | U      | 0.94        | U      | 0.9         | U              | 0.9         | U      | 0.87        | U      |
| 4-Nitrophenol                     | mg/kg | 0.29        | U      | 0.28        | U              | 0.27        | U      | 0.27        | U      | 0.28        | U      | 0.26        | U              | 0.26        | U      | 0.25        | U      |
| 2,4-Dinitrotoluene                | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| Dibenzofuran                      | mg/kg | 0.21        | U      | 0.2         | U              | 0.39        |        | 0.19        | U      | 0.2         | U      | 0.028       | J              | 0.25        |        | 0.18        | U      |
| 2,3,4,6-Tetrachlorophenol         | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| Diethyl phthalate                 | mg/kg | 0.21        | U      | 0.2         | U              | 0.19        | U      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.19        | U      | 0.18        | U      |
| Fluorene                          | mg/kg | 0.21        | U      | 0.2         | U              | 0.13        | J      | 0.19        | U      | 0.2         | U      | 0.19        | U              | 0.25        |        | 0.18        | U      |



| LOCATION                              |       | SB-08-08-10 |               | SB-07-03-05 |               | SB-06-00-02 |               | SB-05-07-09 |               | SB-04-02-04 |               | SB-03-08-10 |               | SB-02-00-02 |               | SB-01-08-10 |               |
|---------------------------------------|-------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| SAMPLING DATE                         |       | 1/10/2023   |               | 1/10/2023   |               | 1/10/2023   |               | 1/10/2023   |               | 1/10/2023   |               | 1/10/2023   |               | 1/10/2023   |               | 1/10/2023   |               |
| LAB SAMPLE ID                         |       | L2301501-01 |               | L2301501-02 |               | L2301501-03 |               | L2301501-04 |               | L2301501-05 |               | L2301501-06 |               | L2301501-07 |               | L2301501-08 |               |
| SAMPLE TYPE                           |       | SOIL        |               | SOIL        |               | SOIL        |               | SOIL        |               | SOIL        |               | SOIL        |               | SOIL        |               | SOIL        |               |
| SAMPLE DEPTH (ft.)                    |       |             |               |             |               |             |               |             |               |             |               |             |               |             |               |             |               |
|                                       | Units | Results     | Qual          | Results     | Qual          | Results     | Qual          | Results     | Qual          | Results     | Qual          | Results     | Qual          | Results     | Qual          | Results     | Qual          |
| 4-Chlorophenyl phenyl ether           | mg/kg | 0.21        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.18        | U             |
| 4-Nitroaniline                        | mg/kg | 0.21        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.18        | U             |
| 4,6-Dinitro-o-cresol                  | mg/kg | 0.54        | U             | 0.51        | U             | 0.5         | U             | 0.49        | U             | 0.51        | U             | 0.49        | U             | 0.49        | U             | 0.47        | U             |
| NDPA/DPA                              | mg/kg | 0.16        | U             | 0.16        | U             | 0.15        | U             | 0.15        | U             | 0.16        | U             | 0.15        | U             | 0.15        | U             | 0.14        | U             |
| 4-Bromophenyl phenyl ether            | mg/kg | 0.21        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.18        | U             |
| Hexachlorobenzene                     | mg/kg | 0.12        | U             | 0.12        | U             | 0.12        | U             | 0.11        | U             | 0.12        | U             | 0.11        | U             | 0.11        | U             | 0.11        | U             |
| Pentachlorophenol                     | mg/kg | 0.16        | U             | 0.16        | U             | 0.15        | U             | 0.15        | U             | 0.16        | U             | 0.15        | U             | 0.15        | U             | 0.14        | U             |
| Atrazine                              | mg/kg | 0.16        | U             | 0.16        | U             | 0.15        | U             | 0.15        | U             | 0.16        | U             | 0.15        | U             | 0.15        | U             | 0.14        | U             |
| Phenanthrene                          | mg/kg | 0.12        | U             | 0.12        | U             | 2.2         |               | 0.11        | U             | 0.12        | U             | 0.062       | J             | 1.4         |               | 0.11        | U             |
| Anthracene                            | mg/kg | 0.12        | U             | 0.12        | U             | 0.37        |               | 0.11        | U             | 0.12        | U             | 0.11        | U             | 0.16        |               | 0.11        | U             |
| Carbazole                             | mg/kg | 0.21        | U             | 0.2         | U             | 0.24        |               | 0.19        | U             | 0.2         | U             | 0.19        | U             | 0.093       | J             | 0.18        | U             |
| Di-n-butylphthalate                   | mg/kg | 0.21        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.18        | U             |
| Fluoranthene                          | mg/kg | 0.12        | U             | 0.12        | U             | 3.6         |               | 0.11        | U             | 0.12        | U             | 0.043       | J             | 0.57        |               | 0.11        | U             |
| Pyrene                                | mg/kg | 0.12        | U             | 0.12        | U             | 3.3         |               | 0.11        | U             | 0.12        | U             | 0.043       | J             | 0.81        |               | 0.11        | U             |
| Butyl benzyl phthalate                | mg/kg | 0.21        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.18        | U             |
| 3,3'-Dichlorobenzidine                | mg/kg | 0.21        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.18        | U             |
| Benzo(a)anthracene                    | mg/kg | 0.12        | U             | 0.12        | U             | 2.2         |               | 0.11        | U             | 0.12        | U             | 0.035       | J             | 0.36        |               | 0.11        | U             |
| Chrysene                              | mg/kg | 0.12        | U             | 0.12        | U             | 2.7         |               | 0.11        | U             | 0.12        | U             | 0.034       | J             | 0.67        |               | 0.11        | U             |
| Bis(2-ethylhexyl)phthalate            | mg/kg | 0.21        | U             | 0.2         | U             | 0.067       | J             | 0.19        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.18        | U             |
| Di-n-octylphthalate                   | mg/kg | 0.21        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.2         | U             | 0.19        | U             | 0.19        | U             | 0.18        | U             |
| Benzo(b)fluoranthene                  | mg/kg | 0.12        | U             | 0.12        | U             | 4.3         |               | 0.11        | U             | 0.12        | U             | 0.039       | J             | 0.47        |               | 0.11        | U             |
| Benzo(k)fluoranthene                  | mg/kg | 0.12        | U             | 0.12        | U             | 1.2         |               | 0.11        | U             | 0.12        | U             | 0.11        | U             | 0.14        |               | 0.11        | U             |
| Benzo(a)pyrene                        | mg/kg | 0.16        | U             | 0.16        | U             | 3.3         |               | 0.15        | U             | 0.16        | U             | 0.15        | U             | 0.31        |               | 0.14        | U             |
| Indeno(1,2,3-cd)pyrene                | mg/kg | 0.16        | U             | 0.16        | U             | 2.4         |               | 0.15        | U             | 0.16        | U             | 0.15        | U             | 0.22        |               | 0.14        | U             |
| Dibenzo(a,h)anthracene                | mg/kg | 0.12        | U             | 0.12        | U             | 0.49        |               | 0.11        | U             | 0.12        | U             | 0.11        | U             | 0.068       | J             | 0.11        | U             |
| Benzo(ghi)perylene                    | mg/kg | 0.16        | U             | 0.16        | U             | 2.1         |               | 0.15        | U             | 0.16        | U             | 0.15        | U             | 0.24        |               | 0.14        | U             |
| Total Metals                          |       |             |               |             |               |             |               |             |               |             |               |             |               |             |               |             |               |
| Arsenic, Total                        | mg/kg | 9.72        |               | 15          |               | 15          |               | 11.3        |               | 13.2        |               | 9.66        |               | 10.7        |               | 8.16        |               |
| Barium, Total                         | mg/kg | 28.8        |               | 45.7        |               | 219         |               | 33.8        |               | 72.9        |               | 23.7        |               | 83.8        |               | 81          |               |
| Cadmium, Total                        | mg/kg | 0.309       | J             | 0.622       |               | 0.58        |               | 0.339       | J             | 0.434       | J             | 0.27        | J             | 1.73        |               | 0.238       | J             |
| Chromium, Total                       | mg/kg | 7.63        |               | 11.8        |               | 13.9        |               | 10.5        |               | 14.8        |               | 5.66        |               | 307         |               | 4.91        |               |
| Lead, Total                           | mg/kg | 10.7        |               | 20.6        |               | 185         |               | 28.1        |               | 13.9        |               | 8.25        |               | 27          |               | 8.92        |               |
| Mercury, Total                        | mg/kg | 0.087       | U             | 0.076       | U             | 0.064       | J             | 0.079       | U             | 0.081       | U             | 0.082       | U             | 0.079       | U             | 0.078       | U             |
| Selenium, Total                       | mg/kg | 0.165       | J             | 0.219       | J             | 0.937       |               | 0.243       | J             | 0.943       | U             | 0.178       | J             | 1.01        |               | 0.152       | J             |
| Silver, Total                         | mg/kg | 0.161       | J             | 0.157       | J             | 0.226       |               | 0.172       | J             | 0.161       | J             | 0.146       | J             | 0.44        | U             | 0.126       | J             |
| Volatile Organics by EPA 5035         |       |             |               |             |               |             |               |             |               |             |               |             |               |             |               |             |               |
| Dichlorodifluoromethane               | mg/kg | 0.0087      | U             | 0.0088      | U             | 0.0097      | U             | 0.0072      | U             | 0.0092      | U             | 0.01        | U             | 0.0093      | U             | 0.0083      | U             |
| Chloromethane                         | mg/kg | 0.0035      | U             | 0.0035      | U             | 0.0039      | U             | 0.0029      | U             | 0.0037      | U             | 0.004       | U             | 0.0037      | U             | 0.0033      | U             |
| Vinyl chloride                        | mg/kg | 0.00087     | U             | 0.00088     | U             | 0.00097     | U             | 0.00072     | U             | 0.00092     | U             | 0.001       | U             | 0.00093     | U             | 0.00083     | U             |
| Bromomethane                          | mg/kg | 0.0017      | U             | 0.0018      | U             | 0.0019      | U             | 0.0014      | U             | 0.0018      | U             | 0.0023      | (IS/SURR)     | 0.0019      | U             | 0.0017      | U             |
| Chloroethane                          | mg/kg | 0.0017      | U             | 0.0018      | U             | 0.0019      | U             | 0.0014      | U             | 0.0018      | U             | 0.002       | U             | 0.0019      | U             | 0.0017      | U             |
| Trichlorofluoromethane                | mg/kg | 0.0035      | U             | 0.0035      | U             | 0.0039      | U             | 0.0029      | U             | 0.0037      | U             | 0.004       | U             | 0.0037      | U             | 0.0033      | U             |
| 1,1-Dichloroethene                    | mg/kg | 0.00087     | U             | 0.00088     | U             | 0.00097     | U             | 0.00072     | U             | 0.00092     | U             | 0.001       | U             | 0.00093     | U             | 0.00083     | U             |
| Carbon disulfide                      | mg/kg | 0.0087      | U J-<br>(LCS) | 0.0088      | U J-<br>(LCS) | 0.0097      | U J-<br>(LCS) | 0.0072      | U J-<br>(LCS) | 0.0092      | U J-<br>(LCS) | 0.01        | U J-<br>(LCS) | 0.0093      | U J-<br>(LCS) | 0.0083      | U J-<br>(LCS) |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | mg/kg | 0.0035      | U             | 0.0035      | U             | 0.0039      | U             | 0.0029      | U             | 0.0037      | U             | 0.004       | U             | 0.0037      | U             | 0.0033      | U             |
| Methylene chloride                    | mg/kg | 0.0044      | U             | 0.0044      | U             | 0.0049      | U             | 0.0036      | U             | 0.0046      | U             | 0.005       | U             | 0.0047      | U             | 0.0042      | U             |
| Acetone                               | mg/kg | 0.022       | U             | 0.022       | U             | 0.024       | U             | 0.018       | U             | 0.023       | U             | 0.025       | U             | 0.023       | U             | 0.021       | U             |
| trans-1,2-Dichloroethene              | mg/kg | 0.0013      | U             | 0.0013      | U             | 0.0015      | U             | 0.0011      | U             | 0.0014      | U             | 0.0015      | U             | 0.0014      | U             | 0.0012      | U             |
| Methyl Acetate                        | mg/kg | 0.0035      | U             | 0.0035      | U             | 0.0039      | U             | 0.0029      | U             | 0.0037      | U             | 0.004       | U             | 0.0037      | U             | 0.0033      | U             |
| Methyl tert butyl ether               | mg/kg | 0.0017      | U             | 0.0018      | U             | 0.0019      | U             | 0.0014      | U             | 0.0018      | U             | 0.002       | U             | 0.0019      | U             | 0.0017      | U             |





| LOCATION                    |       | SB-08-08-10 |      | SB-07-03-05 |      | SB-06-00-02 |      | SB-05-07-09 |      | SB-04-02-04 |      | SB-03-08-10 |      | SB-02-00-02 |      | SB-01-08-10 |      |
|-----------------------------|-------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| SAMPLING DATE               |       | 1/10/2023   |      | 1/10/2023   |      | 1/10/2023   |      | 1/10/2023   |      | 1/10/2023   |      | 1/10/2023   |      | 1/10/2023   |      | 1/10/2023   |      |
| LAB SAMPLE ID               |       | L2301501-01 |      | L2301501-02 |      | L2301501-03 |      | L2301501-04 |      | L2301501-05 |      | L2301501-06 |      | L2301501-07 |      | L2301501-08 |      |
| SAMPLE TYPE                 |       | SOIL        |      | SOIL        |      | SOIL        |      | SOIL        |      | SOIL        |      | SOIL        |      | SOIL        |      | SOIL        |      |
| SAMPLE DEPTH (ft.)          |       |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |
|                             | Units | Results     | Qual | Results     | Qual | Results     | Qual | Results     | Qual | Results     | Qual | Results     | Qual | Results     | Qual | Results     | Qual |
| 1,1-Dichloroethane          | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00093     | U    | 0.00083     | U    |
| cis-1,2-Dichloroethene      | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00093     | U    | 0.00083     | U    |
| 1,2-Dichloroethene, Total   | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00093     | U    | 0.00083     | U    |
| Cyclohexane                 | mg/kg | 0.0087      | U    | 0.0088      | U    | 0.00056     | J    | 0.0072      | U    | 0.0092      | U    | 0.01        | U    | 0.0093      | U    | 0.0083      | U    |
| Bromochloromethane          | mg/kg | 0.0017      | U    | 0.0018      | U    | 0.0019      | U    | 0.0014      | U    | 0.0018      | U    | 0.002       | U    | 0.0019      | U    | 0.0017      | U    |
| Chloroform                  | mg/kg | 0.0013      | U    | 0.0013      | U    | 0.0015      | U    | 0.0011      | U    | 0.0014      | U    | 0.0015      | U    | 0.0014      | U    | 0.0012      | U    |
| Carbon tetrachloride        | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00093     | U    | 0.00083     | U    |
| 1,1,1-Trichloroethane       | mg/kg | 0.00044     | U    | 0.00044     | U    | 0.00049     | U    | 0.00036     | U    | 0.00046     | U    | 0.0005      | U    | 0.00047     | U    | 0.00042     | U    |
| 2-Butanone                  | mg/kg | 0.0087      | U    | 0.0088      | U    | 0.0097      | U    | 0.0072      | U    | 0.0092      | U    | 0.01        | U    | 0.0093      | U    | 0.0083      | U    |
| Benzene                     | mg/kg | 0.00044     | U    | 0.00044     | U    | 0.00049     | U    | 0.00036     | U    | 0.00046     | U    | 0.0005      | U    | 0.002       |      | 0.00042     | U    |
| 1,2-Dichloroethane          | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00093     | U    | 0.00083     | U    |
| Methyl cyclohexane          | mg/kg | 0.0035      | U    | 0.0035      | U    | 0.00077     | J    | 0.0029      | U    | 0.0037      | U    | 0.004       | U    | 0.00059     | J    | 0.0033      | U    |
| Trichloroethene             | mg/kg | 0.00044     | U    | 0.00044     | U    | 0.00049     | U    | 0.00036     | U    | 0.00046     | U    | 0.0005      | U    | 0.00047     | U    | 0.00042     | U    |
| 1,2-Dichloropropane         | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00093     | U    | 0.00083     | U    |
| Bromodichloromethane        | mg/kg | 0.00044     | U    | 0.00044     | U    | 0.00049     | U    | 0.00036     | U    | 0.00046     | U    | 0.0005      | U    | 0.00047     | U    | 0.00042     | U    |
| 1,4-Dioxane                 | mg/kg | 0.07        | U    | 0.07        | U    | 0.078       | U    | 0.057       | U    | 0.074       | U    | 0.08        | U    | 0.075       | U    | 0.067       | U    |
| cis-1,3-Dichloropropene     | mg/kg | 0.00044     | U    | 0.00044     | U    | 0.00049     | U    | 0.00036     | U    | 0.00046     | U    | 0.0005      | U    | 0.00047     | U    | 0.00042     | U    |
| Toluene                     | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.0017      |      | 0.00083     | U    |
| 4-Methyl-2-pentanone        | mg/kg | 0.0087      | U    | 0.0088      | U    | 0.0097      | U    | 0.0072      | U    | 0.0092      | U    | 0.01        | U    | 0.0093      | U    | 0.0083      | U    |
| Tetrachloroethene           | mg/kg | 0.00044     | U    | 0.00044     | U    | 0.00049     | U    | 0.00036     | U    | 0.00046     | U    | 0.0005      | U    | 0.00047     | U    | 0.00042     | U    |
| trans-1,3-Dichloropropene   | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00093     | U    | 0.00083     | U    |
| 1,3-Dichloropropene, Total  | mg/kg | 0.00044     | U    | 0.00044     | U    | 0.00049     | U    | 0.00036     | U    | 0.00046     | U    | 0.0005      | U    | 0.00047     | U    | 0.00042     | U    |
| 1,1,2-Trichloroethane       | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00093     | U    | 0.00083     | U    |
| Dibromochloromethane        | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00093     | U    | 0.00083     | U    |
| 1,2-Dibromoethane           | mg/kg | 0.00044     | U    | 0.00044     | U    | 0.00049     | U    | 0.00036     | U    | 0.00046     | U    | 0.0005      | U    | 0.00047     | U    | 0.00042     | U    |
| 2-Hexanone                  | mg/kg | 0.0087      | U    | 0.0088      | U    | 0.0097      | U    | 0.0072      | U    | 0.0092      | U    | 0.01        | U    | 0.0093      | U    | 0.0083      | U    |
| Chlorobenzene               | mg/kg | 0.00044     | U    | 0.00044     | U    | 0.00049     | U    | 0.00036     | U    | 0.00046     | U    | 0.0005      | U    | 0.00047     | U    | 0.00042     | U    |
| Ethylbenzene                | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00041     | J    | 0.00083     | U    |
| p/m-Xylene                  | mg/kg | 0.0017      | U    | 0.0018      | U    | 0.0019      | U    | 0.0014      | U    | 0.0018      | U    | 0.002       | U    | 0.0019      | U    | 0.0017      | U    |
| o-Xylene                    | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00027     | J    | 0.00083     | U    |
| Xylenes, Total              | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00027     | J    | 0.00083     | U    |
| Styrene                     | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00093     | U    | 0.00083     | U    |
| Bromoform                   | mg/kg | 0.0035      | U    | 0.0035      | U    | 0.0039      | U    | 0.0029      | U    | 0.0037      | U    | 0.004       | U    | 0.0037      | U    | 0.0033      | U    |
| Isopropylbenzene            | mg/kg | 0.00087     | U    | 0.00088     | U    | 0.00097     | U    | 0.00072     | U    | 0.00092     | U    | 0.001       | U    | 0.00012     | J    | 0.00083     | U    |
| 1,1,2,2-Tetrachloroethane   | mg/kg | 0.00044     | U    | 0.00044     | U    | 0.00049     | U    | 0.00036     | U    | 0.00046     | U    | 0.0005      | U    | 0.00047     | U    | 0.00042     | U    |
| 1,3,5-Trimethylbenzene      | mg/kg | 0.0017      | U    | 0.0018      | U    | 0.0019      | U    | 0.0014      | U    | 0.0018      | U    | 0.002       | U    | 0.0019      | U    | 0.0017      | U    |
| 1,2,4-Trimethylbenzene      | mg/kg | 0.0017      | U    | 0.0018      | U    | 0.0019      | U    | 0.0014      | U    | 0.0018      | U    | 0.002       | U    | 0.0019      | U    | 0.0017      | U    |
| 1,3-Dichlorobenzene         | mg/kg | 0.0017      | U    | 0.0018      | U    | 0.0019      | U    | 0.0014      | U    | 0.0018      | U    | 0.002       | U    | 0.0019      | U    | 0.0017      | U    |
| 1,4-Dichlorobenzene         | mg/kg | 0.0017      | U    | 0.0018      | U    | 0.0019      | U    | 0.0014      | U    | 0.0018      | U    | 0.002       | U    | 0.0019      | U    | 0.0017      | U    |
| 1,2-Dichlorobenzene         | mg/kg | 0.0017      | U    | 0.0018      | U    | 0.0019      | U    | 0.0014      | U    | 0.0018      | U    | 0.002       | U    | 0.0019      | U    | 0.0017      | U    |
| 1,2-Dibromo-3-chloropropane | mg/kg | 0.0026      | U    | 0.0026      | U    | 0.0029      | U    | 0.0021      | U    | 0.0028      | U    | 0.003       | U    | 0.0028      | U    | 0.0025      | U    |
| 1,2,4-Trichlorobenzene      | mg/kg | 0.0017      | U    | 0.0018      | U    | 0.0019      | U    | 0.0014      | U    | 0.0018      | U    | 0.002       | U    | 0.0019      | U    | 0.0017      | U    |
| Naphthalene                 | mg/kg | 0.0035      | U    | 0.0035      | U    | 0.0039      | U    | 0.0029      | U    | 0.0037      | U    | 0.004       | U    | 0.0037      | U    | 0.0033      | U    |
| 1,2,3-Trichlorobenzene      | mg/kg | 0.0017      | U    | 0.0018      | U    | 0.0019      | U    | 0.0014      | U    | 0.0018      | U    | 0.002       | U    | 0.0019      | U    | 0.0017      | U    |

\* Comparison is not performed on parameters with non-numeric criteria.

OH-VAP-DCS-RS: Ohio Generic Direct Contact Soil Standards - Residential Land Use Category Criteria per VAP Rules OAC 3745-300-08 effective October 17, 2019.



## Appendix D Project Plan Sheets

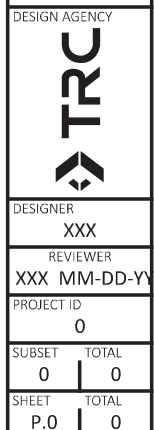




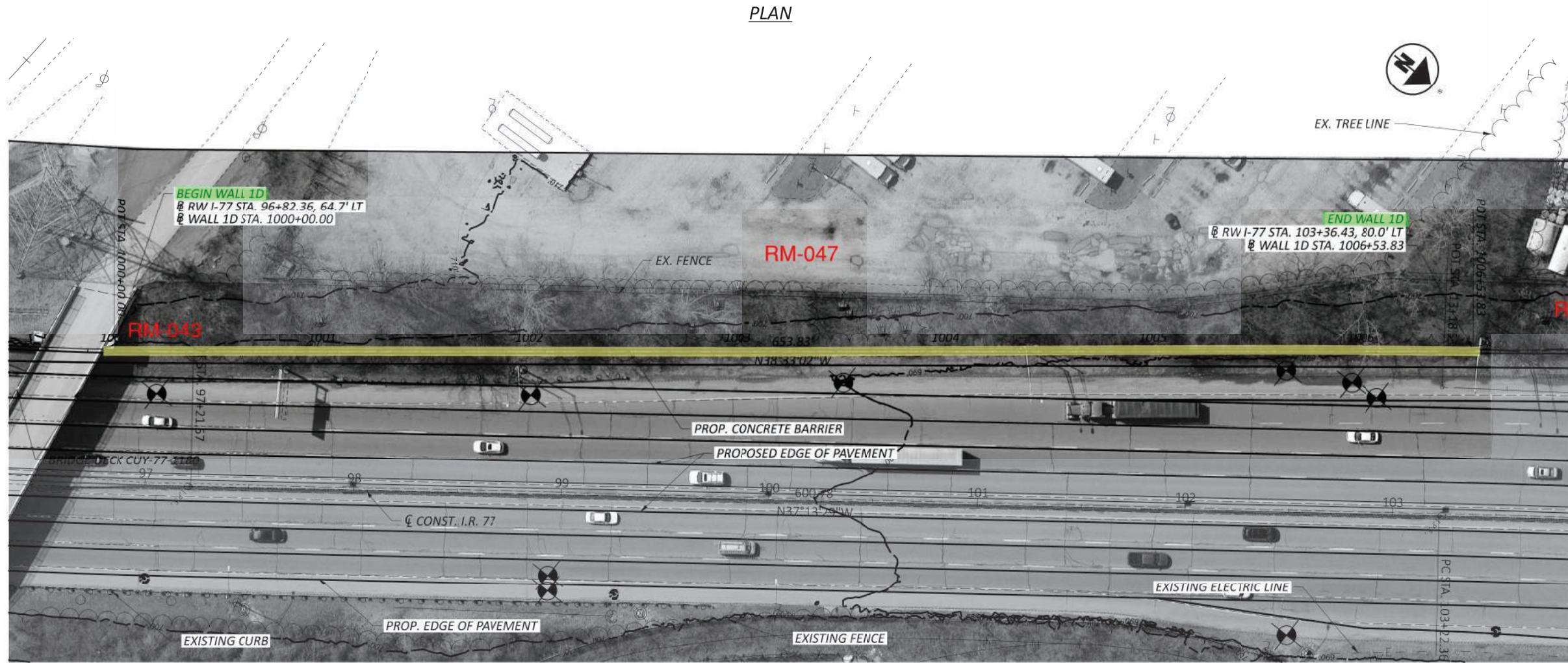
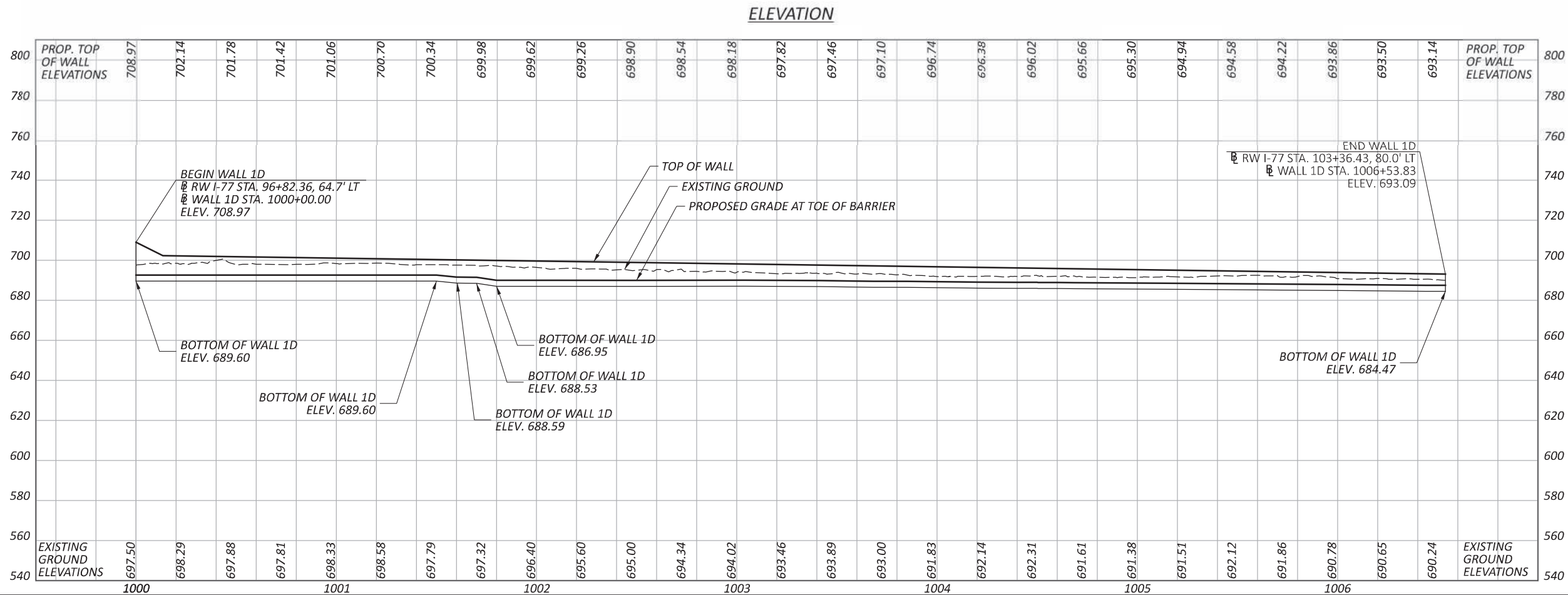




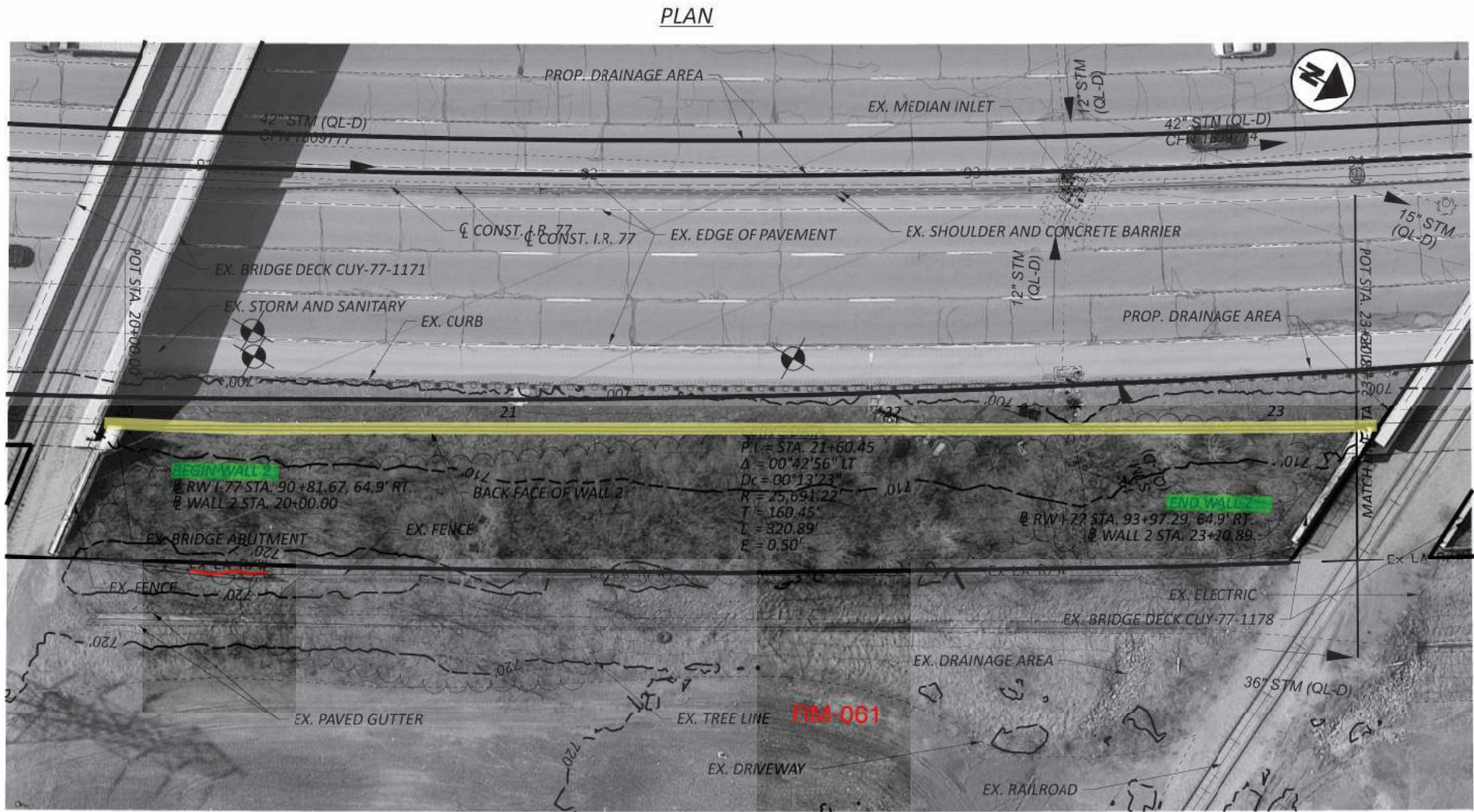
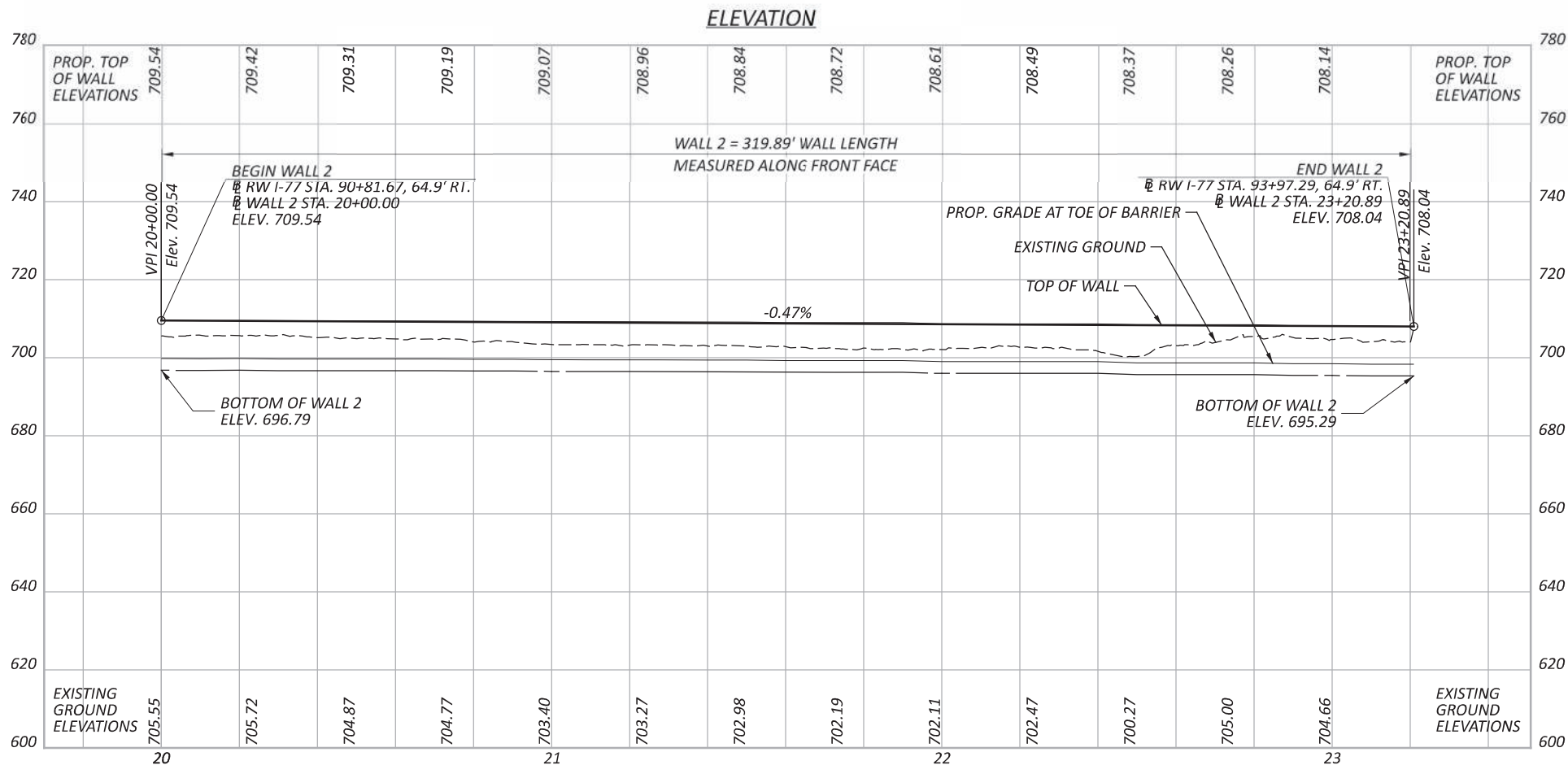
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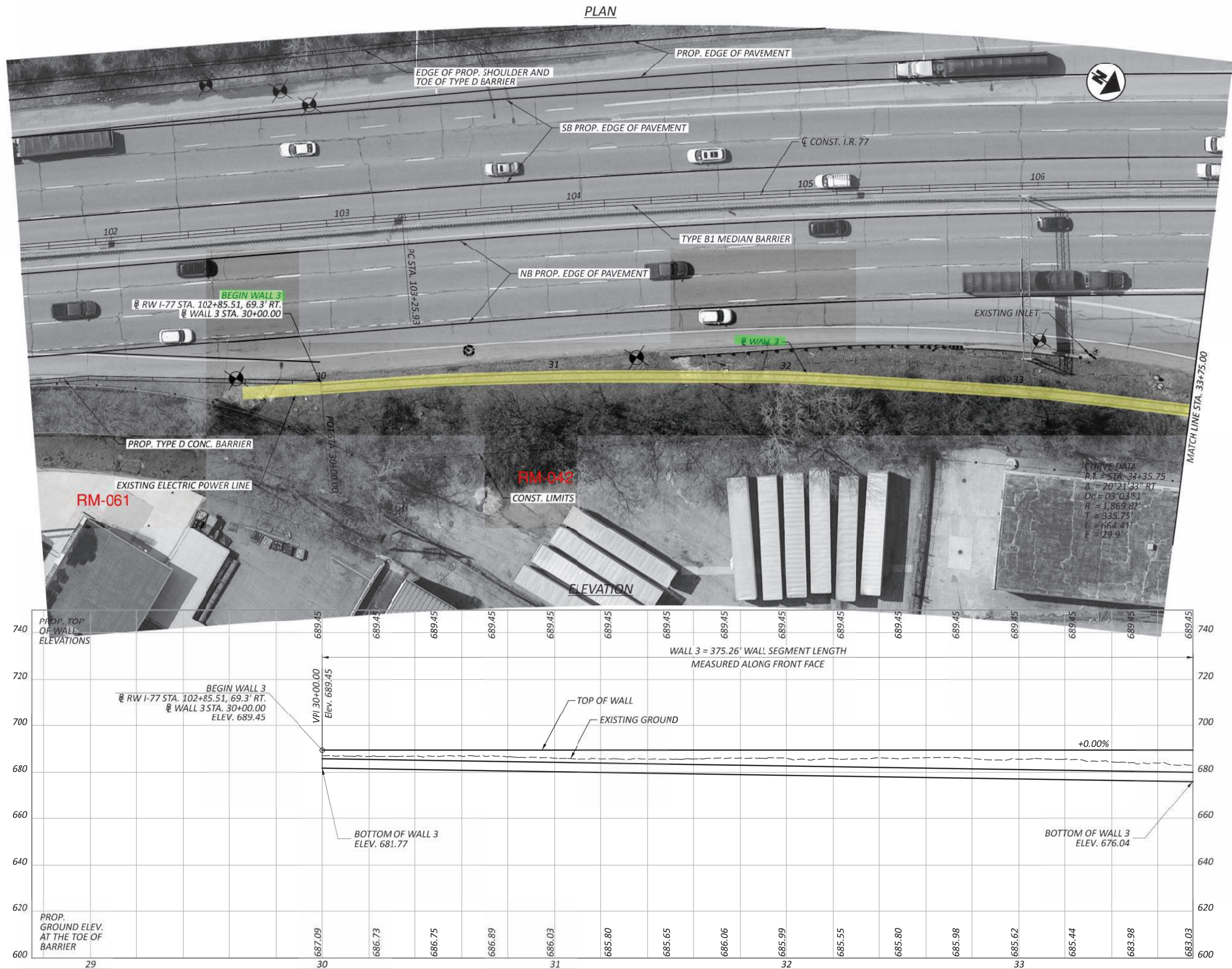




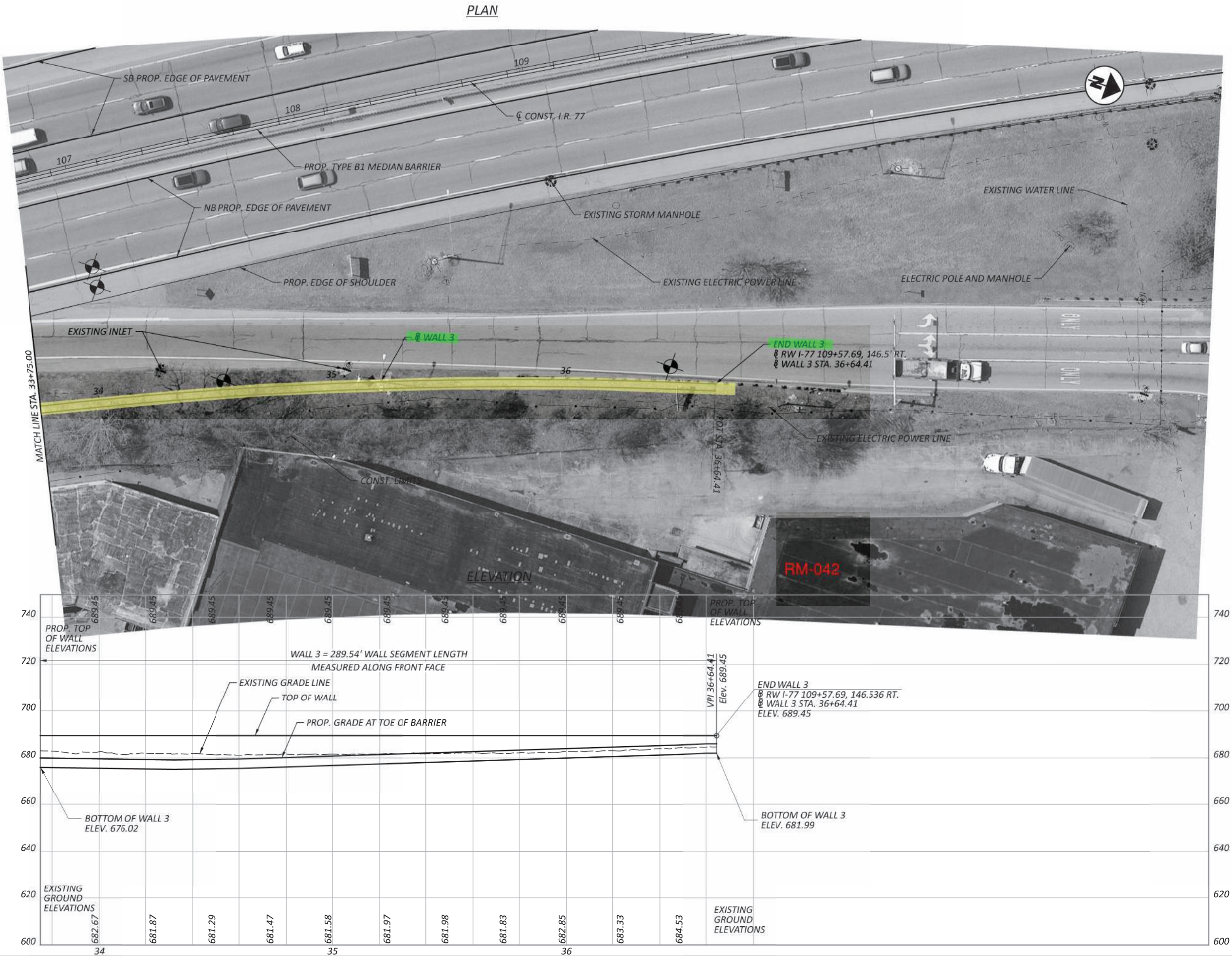








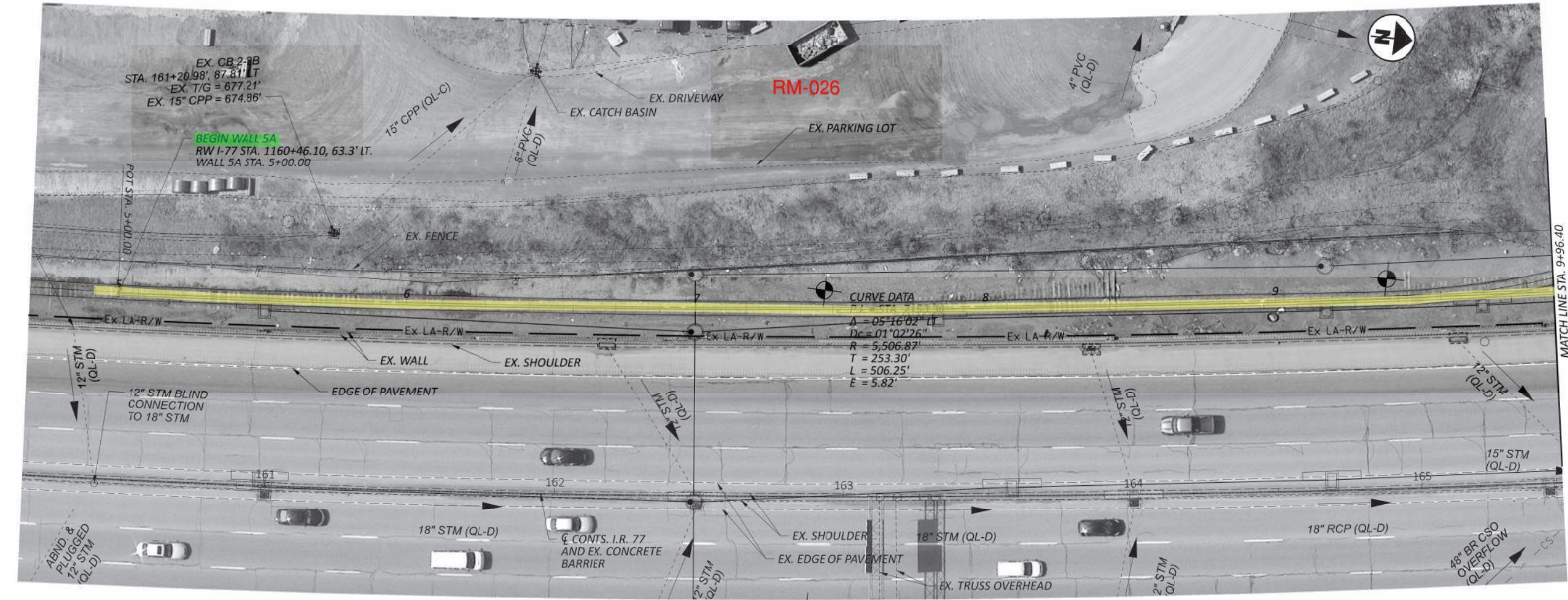
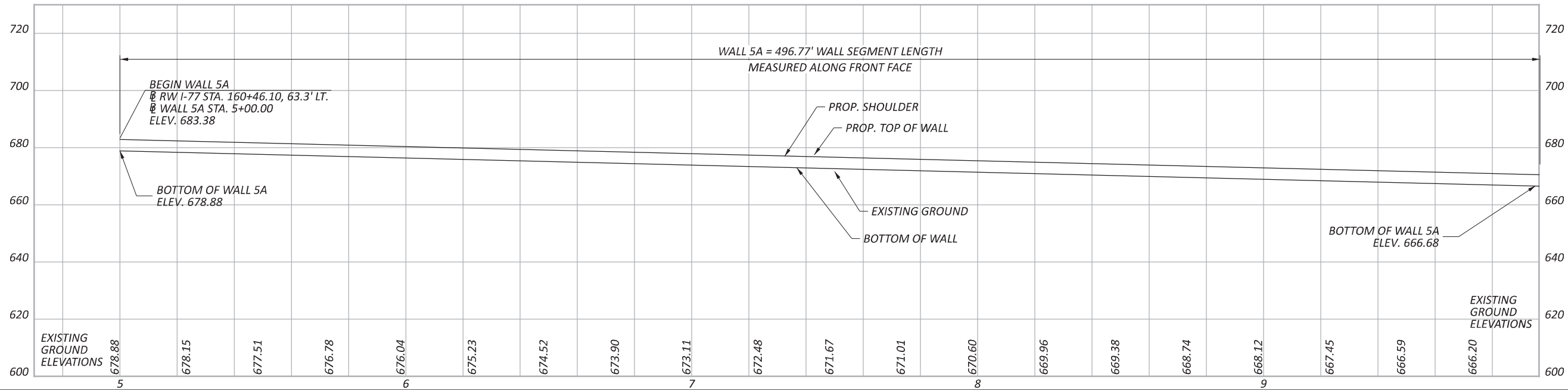








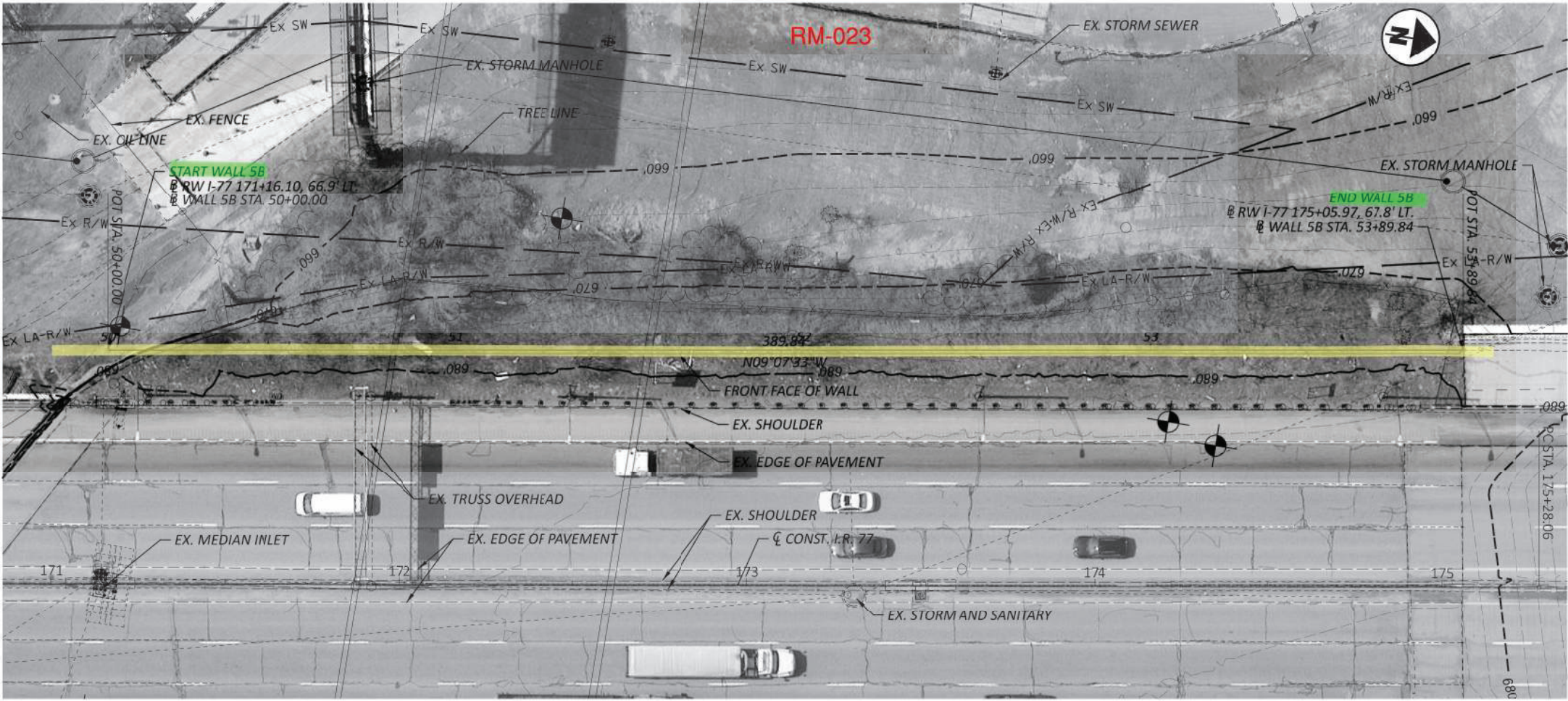
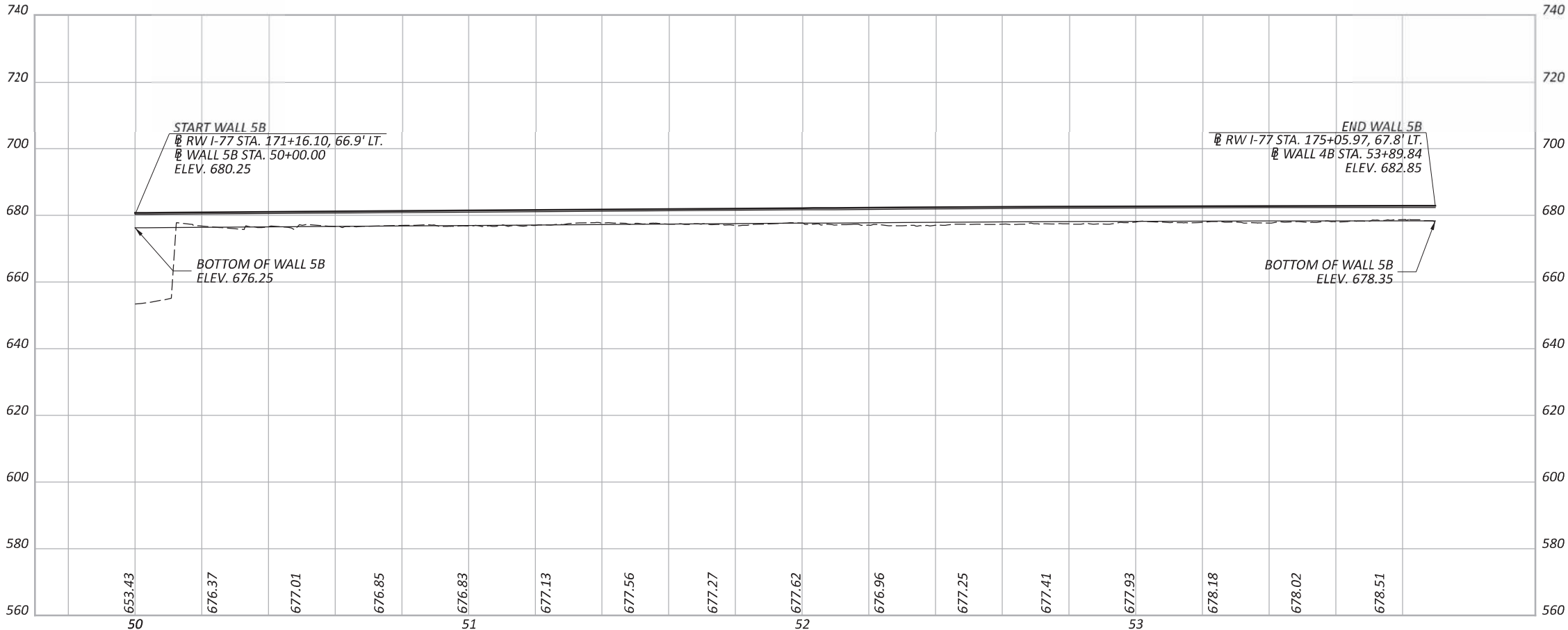








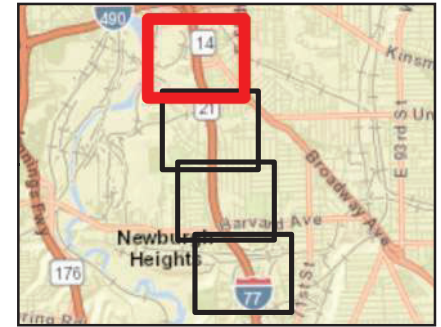
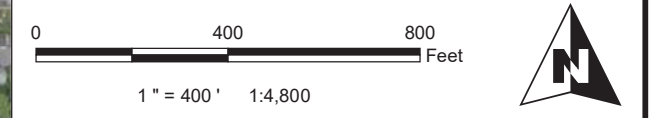








-  Project Limits
-  RMR Property
-  Cuyahoga County Parcel Boundary
-  Sewer Line

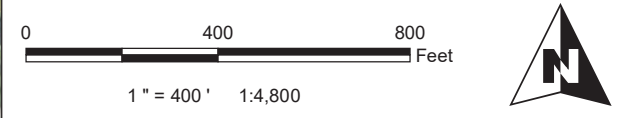


|                                                                                       |                                                                                   |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>CUY-77-11.21, PID: 105743</b><br><b>CUYAHOGA COUNTY, OHIO</b>                      |                                                                                   |
| <b>STORM SEWER LOCATIONS</b><br><b>(PAGE 1 OF 4)</b>                                  |                                                                                   |
|  | 1382 West Ninth Street<br>Suite 400<br>Cleveland, OH 44113<br>Phone: 216-344-3072 |
| MAY 2022                                                                              | RMR_Fig10_Sewer_11x17.mxd                                                         |



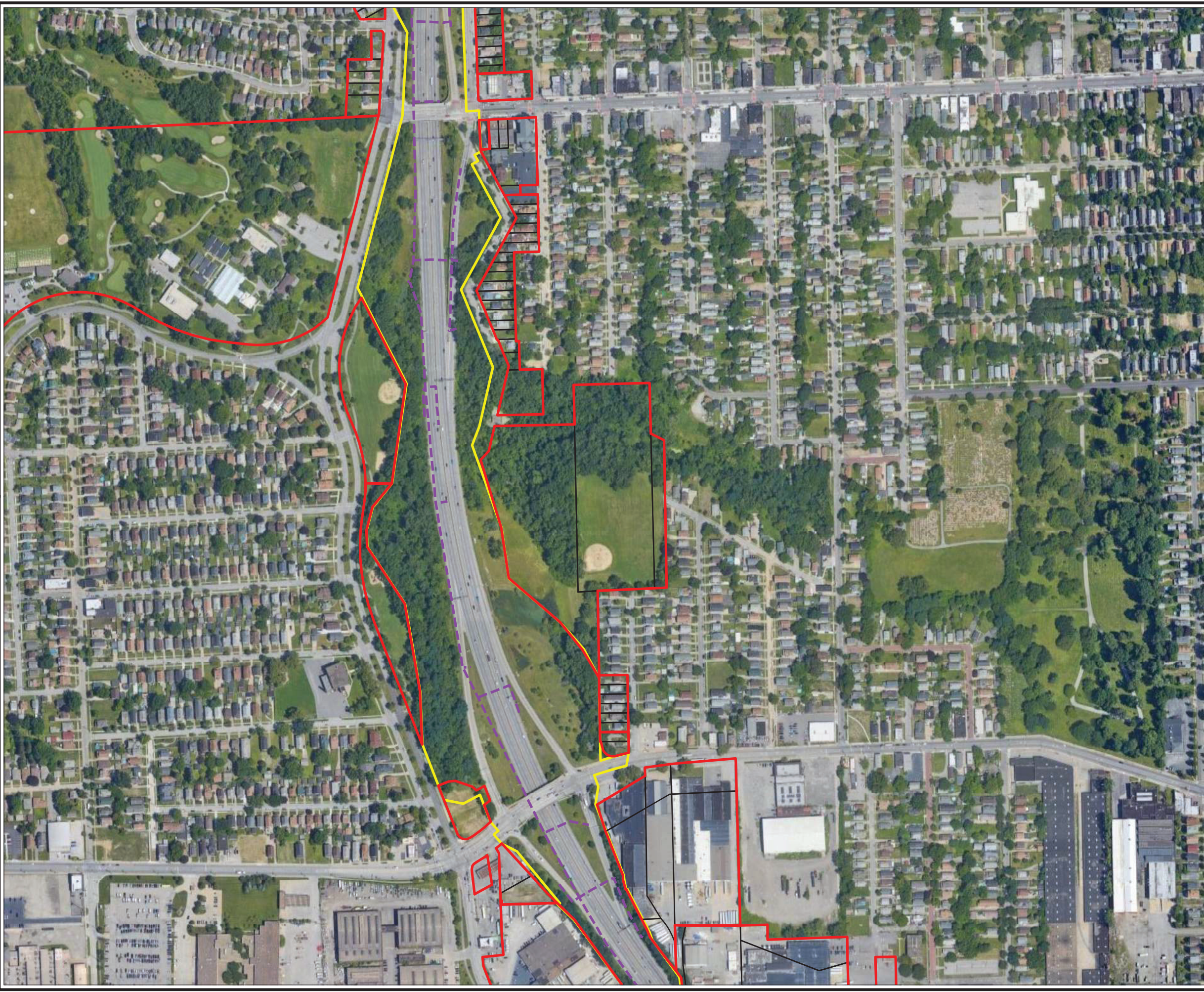


-  Project Limits
-  RMR Property
-  Cuyahoga County Parcel Boundary
-  Sewer Line

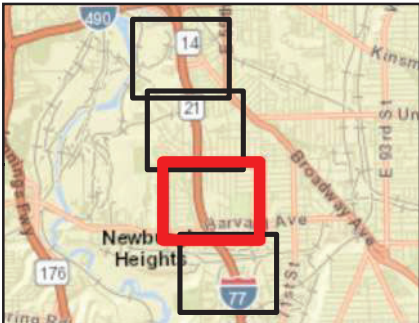


|                                                                                       |                                                                                   |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>CUY-77-11.21, PID: 105743</b><br><b>CUYAHOGA COUNTY, OHIO</b>                      |                                                                                   |
| <b>STORM SEWER LOCATIONS</b><br><b>(PAGE 2 OF 4)</b>                                  |                                                                                   |
|  | 1382 West Ninth Street<br>Suite 400<br>Cleveland, OH 44113<br>Phone: 216-344-3072 |
| MAY 2022                                                                              | RMR_Fig10_Sewer_11x17.mxd                                                         |





-  Project Limits
-  RMR Property
-  Cuyahoga County Parcel Boundary
-  Sewer Line



**CUY-77-11.21, PID: 105743**  
**CUYAHOGA COUNTY, OHIO**

**STORM SEWER LOCATIONS**  
**(PAGE 3 OF 4)**

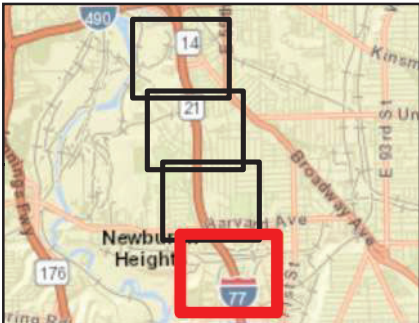


1382 West Ninth Street  
Suite 400  
Cleveland, OH 44113  
Phone: 216-344-3072





- Project Limits
- RMR Property
- Cuyahoga County Parcel Boundary
- Sewer Line



|                                                                  |                                                                                   |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>CUY-77-11.21, PID: 105743</b><br><b>CUYAHOGA COUNTY, OHIO</b> |                                                                                   |
| <b>STORM SEWER LOCATIONS</b><br><b>(PAGE 4 OF 4)</b>             |                                                                                   |
|                                                                  | 1382 West Ninth Street<br>Suite 400<br>Cleveland, OH 44113<br>Phone: 216-344-3072 |
| MAY 2022                                                         | RMR_Fig10_Sewer_11x17.mxd                                                         |



## Appendix E: Other Information





2101 Integrity Drive South  
Columbus, OH 43209  
614-444-SOIL (office)  
614-444-1797 (fax)

### NON-HAZARDOUS WASTE MANIFEST

|                                                                              |     |                                                           |  |
|------------------------------------------------------------------------------|-----|-----------------------------------------------------------|--|
| PROJECT NUMBER:                                                              |     | LOAD NUMBER:                                              |  |
| <b>GENERATOR</b>                                                             |     |                                                           |  |
| TRC Environmental Corp<br>1382 W. 9th St. Suite 400<br>Cleveland, Ohio 44113 |     | CONTACT: Stacy Schimmoeller<br><br>PHONE: 419-701-8188    |  |
| <b>CONSULTANT / CONTRACTOR</b>                                               |     |                                                           |  |
| TRC Environmental Corp<br>1382 W. 9th St. Suite 400<br>Cleveland, Ohio 44113 |     | CONTACT: Stacy Schimmoeller<br><br>PHONE: 419-701-8188    |  |
| <b>TRANSPORTER</b>                                                           |     |                                                           |  |
| Chemviron Midwest, Inc.<br>2461 Bauman Road<br>Wooster, OH 44691             |     | CONTACT: Joel Steiner<br><br>PHONE: 330-264-2000          |  |
| <b>DESIGNATED FACILITY</b>                                                   |     |                                                           |  |
| Ohio Soil Recycling, LLC<br>2101 Integrity Drive South<br>Columbus, OH 43209 |     | CONTACT: Chris Elliott<br><br>PHONE: 614-444-7645         |  |
| <b>WASTE ORIGATION</b>                                                       |     | <b>WASTE DESCRIPTION</b>                                  |  |
| CUY-77-11.21 PID #105743<br>4800 Ruffini Court<br>Cleveland, OH 44105        |     | Non-Hazardous Contaminated Soil                           |  |
| TRUCK #                                                                      |     | TIME<br>DATE<br>GROSS WEIGHT<br>TARE WEIGHT<br>NET WEIGHT |  |
| OHIO EPA INCIDENT ID #                                                       | N/A |                                                           |  |
| NOTES                                                                        |     |                                                           |  |
|                                                                              |     | TONS                                                      |  |
|                                                                              |     | DRUMS / BAGS                                              |  |

GENERATOR'S CERTIFICATION: I certify that the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

|                                                          |            |
|----------------------------------------------------------|------------|
| Senior Project Manager                                   | 02-13-2023 |
| GENERATOR / AGENT SIGNATURE                              | DATE       |
| Transporter signature waived due to COVID-19 precaution. |            |
| TRANSPORTER SIGNATURE                                    | DATE       |
| OSR REPRESENTATIVE SIGNATURE                             | DATE       |



2101 Integrity Drive South  
Columbus, OH 43209  
614-444-SOIL (office)  
614-444-1797 (fax)

## NON-HAZARDOUS MATERIAL WASTE PROFILE

### 1. GENERATOR INFORMATION

COMPANY NAME TRC Environmental Corp  
STREET 1382 W. 9th St. Suite 401  
CITY, STATE ZIP Cleveland, Ohio 44113  
CONTACT Stacy Schimmoeleir  
PHONE 419-701-8188

### 2. CONSULTANT/CONTRACTOR INFORMATION

☒ SAME AS GENERATOR

COMPANY NAME \_\_\_\_\_  
STREET \_\_\_\_\_  
CITY, STATE ZIP \_\_\_\_\_  
CONTACT \_\_\_\_\_  
PHONE \_\_\_\_\_

### 3. TRANSPORTER INFORMATION

☐ SAME AS CONTRACTOR ☐ SAME AS GENERATOR

COMPANY NAME Chemviron Midwest Inc  
STREET 2461 Bauman Rd  
CITY, STATE ZIP Wooster, OH 44691  
CONTACT Joel Steiner  
PHONE 330-264-2000

### 4. MATERIAL ORIGINATION POINT

PROJECT / SITE NAME CUY-77-11.21 PID #105743  
STREET 4800 Ruffini Court  
CITY, STATE ZIP Cleveland, OH 44105

### 5. OHIO EPA INCIDENT ID #:

☒ NOT APPLICABLE

### 6. CONTAMINANT(S)

- |                                                  |                                             |
|--------------------------------------------------|---------------------------------------------|
| <input type="checkbox"/> DIESEL                  | <input type="checkbox"/> MINERAL OIL        |
| <input type="checkbox"/> UNLEADED GASOLINE       | <input type="checkbox"/> HYDRAULIC OIL      |
| <input type="checkbox"/> MOTOR OIL               | <input type="checkbox"/> TRANSMISSION FLUID |
| <input type="checkbox"/> #2 FUEL OIL             | <input type="checkbox"/> CUTTING OIL        |
| <input type="checkbox"/> KEROSENE                | <input type="checkbox"/> WASTE OIL          |
| <input type="checkbox"/> LEADED GASOLINE         | <input type="checkbox"/> JET-A/AVIATION GAS |
| <input checked="" type="checkbox"/> OTHER (LIST) |                                             |
| <u>N/A</u>                                       |                                             |

### 7. SOURCE

- |                                                        |
|--------------------------------------------------------|
| <input type="checkbox"/> SURFACE SPILL / RELEASE       |
| <input type="checkbox"/> UNDERGROUND STORAGE TANK      |
| <input type="checkbox"/> ABOVE GROUND STORAGE          |
| <input type="checkbox"/> PIPELINE                      |
| <input type="checkbox"/> STORM WATER COLLECTION SYSTEM |
| <input type="checkbox"/> PIT, POND OR LAGOON           |
| <input checked="" type="checkbox"/> OTHER (EXPLAIN)    |
| <u>Soil Boring Cuttings</u>                            |

8. ESTIMATED QUANTITY OF MATERIAL: 1/3 ☐ TONS ☐ CUBIC YARDS ☒ DRUMS

9. ESTIMATED START DATE: 1/10/2023

Stacy Schimmoeleir

SIGNATURE

Stacy Schimmoeleir  
GENERATOR / AGENT NAME

02/07/2023

DATE

Senior Project Manager  
TITLE