

November 10, 2025

Jane Forbes
Division of Environmental Quality
City Hall
30 Church Street, Room 300B
Rochester, New York 14614

Re: Soil Sampling and Analysis Work Plan

565 Culver Road

Portion of Vacuum Oil Refinery Site

Site No.: C828190

City of Rochester, Monroe (C)

Dear Ms. Forbes:

The New York State Department of Environmental Conservation (Department) has completed a review of the October 9, 2025 Soil Sampling and Analysis Work Plan (Work Plan) for the proposed soil sampling event at 565 Culver Road, Rochester, Monroe County to be used for the Beneficial Use Determination (BUD) petition. The Work Plan is approved with the following clarifications and modifications.

- 1. The Department understands that the analytical laboratory will have the appropriate ELAP certifications for the analytical methods to be completed.
- 2. The Department understands that the soil samples collected will be analyzed for TCL VOCs plus TICs.
- 3. The Department understands that the soil samples collected will be analyzed TCL SVOCs plus TICs. This also includes all QA/QC samples collected during the sampling event.
- 4. The Department understands that the reporting limits for PFOA and PFOS as presented in the Department's April 2023 guidance.
- 5. The Department understands that the analytical results will be compared to DER-10 Appendix 5 Allowable Constituent Levels for Imported Fill or Soil Subdivision 5.4(e) and the Department's April 2023 PFOA and PFOS guidance document.

Within fifteen (15) days of the date of this letter and prior to any fieldwork activities, the Applicant must elect in writing (electronic notification is acceptable) one of the following options:

- Option A: Accept the modified work plan;
- Option B: Invoke dispute resolution as set forth in 6 NYCRR Part 35-1.5(b)(2); or
- Option C: Terminate the Brownfield Cleanup Agreement in accordance with 6 NYCRR Part 375-3.5.

If the Applicant chooses to accept Option A then this letter becomes part of the approved Soil Sampling and Analysis Work Plan dated October 9, 2025 for 565 Culver Road. Also, if Option A is chosen then a copy of the approved Soil Sampling and Analysis Work Plan for 565 Culver Road along with this letter attached must be placed in the document repository within 1 week of accepting Option A and prior to any fieldwork activities. Please provide notification to the Department that the Soil Sampling and Analysis Work Plan for 565 Culver Road and a copy of this letter have been placed in the document repository (electronic notification is acceptable).

NYSDEC seeks to resolve outstanding differences in a mutually agreeable manner which addresses the requirements of the Brownfield Cleanup Agreement, Part 375, and all applicable laws, regulations, and guidance. If you or your technical team have any questions or concerns regarding this request, please contact me via email at charlotte.theobald@dec.ny.gov or at 585-226-5354. If your legal team have any questions or concerns regarding this request, please feel free to contact Deborah Gorman via e-mail at Deborah.Gorman@dec.ny.gov or at 518-402-9525 and Kyle Pero at kyle.pero@dec.ny.gov.

Sincerely,

Charlotte B. Theobald Assistant Engineer

ec:

Anne Spaulding (City of Rochester)
Greg Andrus (Lu Engineering)
Jeff Danzinger (Day Environmental)
Justin Deming (NYSDOH)
Julia Kenney (NYSDOH)
Christopher Budd (NYSDOH)
Starr O'Neil (MCHD)
Dr. Velez De Brown (MCHD)
Kyle Pero (NYSDEC)
Deborah Gorman (NYSDEC)
David Pratt (NYSDEC)
Michael Ormanoski (NYSDEC)

SOIL SAMPLING AND ANALYSIS PLAN

SITE #3 565 CULVER ROAD ROCHESTER, NEW YORK

Prepared for: City of Rochester

Division of Environmental Quality 30 Church Street, Room 300B Rochester, New York 14614

Prepared by: Lu Engineers

200 East Broad Street

Rochester, New York 14606

And

Day Environmental, Inc.

1563 Lyell Avenue

Rochester, New York 14606

Project No.: 6254S-25

Date: October 9, 2025

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ATTACHMENTS

Attachment A Analytical Laboratory Report for Previous Composite Samples

1.0 INTRODUCTION

The City of Rochester (City) is proposing to complete sampling and analysis of a source of soil at 565 Culver Road, Rochester, New York (Site #3). A Locus Map is included as Figure 3-1. The viability of using this soil as a source of imported material at the City-owned former Vacuum Oil Brownfield Cleanup Program (BCP) Site (NYSDEC BCP Site #C828190) is being considered.

On August 14, 2025, Marques and Associates, P.C. (Marques) surveyed the location and elevation of two soil piles (A and B) at Site #3. The soil piles at Site #3 consist of surplus soils that were generated as a result of a Park Avenue road reconstruction project. The piles are staged on asphalt pavement. The horizontal and vertical survey data collected by Marques was entered into a geographic information system (GIS) by Day Environmental, Inc. (DAY) Figure 3-2 shows the survey points and 3-D Analyst modeled topographic contours of soil piles A and B. In addition, lower rasters to represent a bottom cut elevation surface beneath the soil piles were prepared based on perimeter "toe" survey points where the piles meet the underlying asphalt. GIS Spatial Analyst was subsequently used to calculate a volume of the soil piles above the lower rasters. As provided on Figure 3-2, the available combined volume of the soil piles A and B on the asphalt pavement was calculated to be 600 cubic yards (CY).

As required by the New York State Department of Environmental Conservation (NYSDEC), the soil piles at Site #3 need to be chemically characterized to determine possible uses at the NYSDEC BCP Site #C828190.

2.0 SAMPLING AND ANALYSIS PLAN

Three composite samples (designated Soil Pile #3, Soil Pile #4 and Soil Pile #5) were previously collected April 10, 2025 and tested at a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory. These three composite samples were tested for the following parameters.

- Target compound list (TCL) volatile organic compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method 8260.
- TCL semi-volatile organic compounds (SVOCs) via USEPA Method 8270.
- Resource Conservation and Recovery Act (RCRA) Metals via USEPA Method 6010/7471.
- Polychlorinated biphenyls (PCBs) via USEPA Method 8082.
- Pesticides via USEPA Method 8081.
- Herbicides via USEPA Method 8151. Toxicity Characteristic Leaching Procedure (TCLP) lead via USEPA Methods 1311 and 6010.
- Ignitability
- Reactivity (cyanide and sulfide)
- Corrosivity (pH)

A copy of the analytical laboratory report for composite samples Soil Pile #3, Soil Pile #4 and Soil Pile #5 is included in Attachment A.

The sampling and analysis plan outlined herein is intended to supplement the analytical laboratory data for composite samples Soil Pile #3, Soil Pile #4 and Soil Pile #5 that were collected on April 10, 2025.

NYSDEC Part 360.13(e) and Section 5.4(e) of NYSDEC DER-10 provide guidance on number of samples based on volume, and test parameters to characterize a proposed source. Since the Site is in the BCP, guidance from Section 5.4(e) of NYSDEC DER-10 takes precedence, and is used along with input from the NYSDEC Project Manager for BCP Site #C828190 given the history and nature of Site #3. Based on a volume of 600 CY and with input from the NYSDEC Project Manager, it is planned to collect six (6) discrete soil samples and two (2) composite soil samples from six (6) test pit locations. The six planned test pit locations are shown on Figure 3-3.

A subcontractor will be retained to excavate six (6) test pits to the desired depths using a mini-excavator. Soil samples will be collected using the mini-excavator bucket. The excavator bucket will be decontaminated using an Alconox and water wash/water rinse prior to use at each location.

A representative of DAY or LU will observe, document, and screen the soil samples and associated headspace soil samples in the field for total volatile organic compounds (VOCs) using a photoionization detector (PID). In addition, the representative will observe the samples for visual and olfactory evidence of apparent environmental impact (e.g., odors, staining, and free product). The representative will collect portions of samples for analytical laboratory testing. The samples submitted for testing will be biased towards the portions of the specific depth interval that have the highest field evidence of apparent impact. For test locations with no field evidence of apparent impact, portions of samples for analytical laboratory testing will be collected from random depths within the selected depth interval to be tested at the specific test pit. Test pit logs will be prepared that describe pertinent information (e.g., PID measurements, evidence of contamination, lithology, sample moisture, sample depth intervals, depths, evidence of groundwater, etc.).

The test pits excavated during this task will be located via tape measure by reference to existing site features and/or using a global positioning system (GPS) unit. Upon completion of the work, the test pits will be backfilled with soil cuttings.

Discrete soil samples are anticipated to be collected from each test pit from the targeted depth intervals in parentheses provided below:

```
TP3-1 (0-2 ft below the ground surface [bgs])
TP3-2 (3-5 ft bgs)
TP3-3 (1-3 ft bgs)
TP3-4 (3-52 ft bgs)
TP3-5 (2-4 ft bgs)
TP3-6 (0-2 ft bgs)
```

A separate aliquot for compositing will be collected at each test location's planned sample depth interval, which will be composited into the following composite laboratory samples:

```
Sample 3-1,2,3: Composite aliquots from locations TB3-1,TB3-2 and TB3-3
```

Sample 3-4,5,6: Composite aliquots from locations TB3-4,TB3-5 and TB3-6

ALS Environmental (ALS) will complete the analytical laboratory testing of discrete samples and composite samples of the surplus soil. ALS is a NYSDOH ELAP-certified analytical laboratory (ELAP #10145). The samples will be submitted to ALS under chain-of-custody control, and testing program, including that for associated quality assurance/quality control samples, is provided below.

Field Samples

The six (6) discrete soil field samples will be tested for:

a. TCL VOCs via USEPA Method 8260.

The two (2) composite soil field samples will be tested for:

- a. Target Analyte List (TAL) Metals via USEPA Method 6010/7470/7471.
- b. Cyanide via USEPA Method 9012.
- c. Per- and polyfluoroalkyl substances (PFAS) via USEPA Method 1633 [submit samples under a separate chain of custody].
- d. 1,4-dioxane via USEPA Method 8270 SIM [submit samples under a separate chain of custody].

Quality Assurance/Quality Control (QA/QC) Samples

- a. Matrix spike/matrix spike duplicate (MS/MSD) on one (1) discrete sample will be tested for:
 - TCL VOCs via USEPA Method 8260.
- b. MS/MSD on one (1) composite sample will be tested for:
 - TAL Metals via USEPA Method 6010/7470/7471.
 - Cyanide via USEPA Method 9012.
 - PFAS via USEPA Method 1633 [submit sample under a separate chain of custody].
 - 1,4-dioxane via USEPA Method 8270 SIM [submit sample under a separate chain of custody].

- c. Blind field duplicates on one (1) discrete sample will be tested for:
 - TCL VOCs via USEPA Method 8260.
- d. Blind field duplicate on one (1) composite sample will be tested for:
 - TAL Metals via USEPA Method 6010/7470/7471.
 - Cyanide via USEPA Method 9012.
 - PFAS via USEPA Method 1633 [submit sample under a separate chain of custody].
 - 1,4-dioxane via USEPA Method 8270 SIM [submit sample under a separate chain of custody].
- e. One (1) equipment blank will be tested for PFAS via USEPA Method 1633 [submit sample under a separate chain of custody].

ALS will report its findings in analytical services protocol (ASP) Category B deliverables and NYSDEC Equis EXCEL EDD in approximately 10 to 15 business days after receipt of the samples.

Initially, a Data Usability Summary Report (DUSR) will not be completed on the Category B deliverables for the analytical laboratory test results. If subsequent to review of the test results the City decides to pursue a BUD to propose use of the soil from this Site at BCP Site #C828190, the NYSDEC project manager for BCP Site #C828190 will be contacted to determine if NYSDEC requires a DUSR be performed on the test results. If required by the NYSDEC, then a DUSR will be completed and components of the Data Package outlined in Section 3.0 will be updated accordingly.

3.0 DATA PACKAGE

Subsequent to receipt of the analytical laboratory results, a data package will be prepared that includes, a project locus map, a figure depicting test locations in relation to pile topography, the analytical laboratory report, field logs for each test location that include a description of soil lithology, sample intervals, peak PID readings on sample intervals screened, observations concerning environmental impact (if present), and one or more data table that include comparison of field sample test results to NYSDEC Restricted Residential Use soil cleanup objectives (RRSCOs) and Protection of Groundwater soil cleanup objectives (PGSCOs) as set forth in Table 375-6.8(b) of 6 New York Codes, Rules and Regulations (NYCRR) Part 375. These SCOs are the criteria that need to be met for imported materials at BCP Site #C828190.

The resulting sampling and analysis information and data in the data package may subsequently be used in a Beneficial Use Determination (BUD) petition for NYSDEC BCP Site #C828190.

4.0 LIST OF ACRONYMS AND ABBREVIATIONS

ALS Environmental

ASP Analytical Services Protocol
BCP Brownfield Cleanup Program
BGS Below the Ground Surface
BUD Beneficial Use Determination

City City of Rochester CY Cubic Yard

DAY Day Environmental, Inc.

ELAP Environmental Laboratory Approval Program

GIS Geographic Information System
GPS Global Positioning System
Marques Marques and Associates, P.C
MS/MSD Matrix Spike/Matrix Spike Dupl

MS/MSD Matrix Spike/Matrix Spike Duplicate
NYCRR New York Codes, Rules and Regulations

NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

PCB Polychlorinated Biphenyl

PFAS Per- and polyfluoroalkyl substances

PGSCO Protection of Groundwater Soil Cleanup Objective

PID Photoionization Detector

QA/QC Quality Assurance/Quality Control
RCRA Resource Conservation and Recovery Act

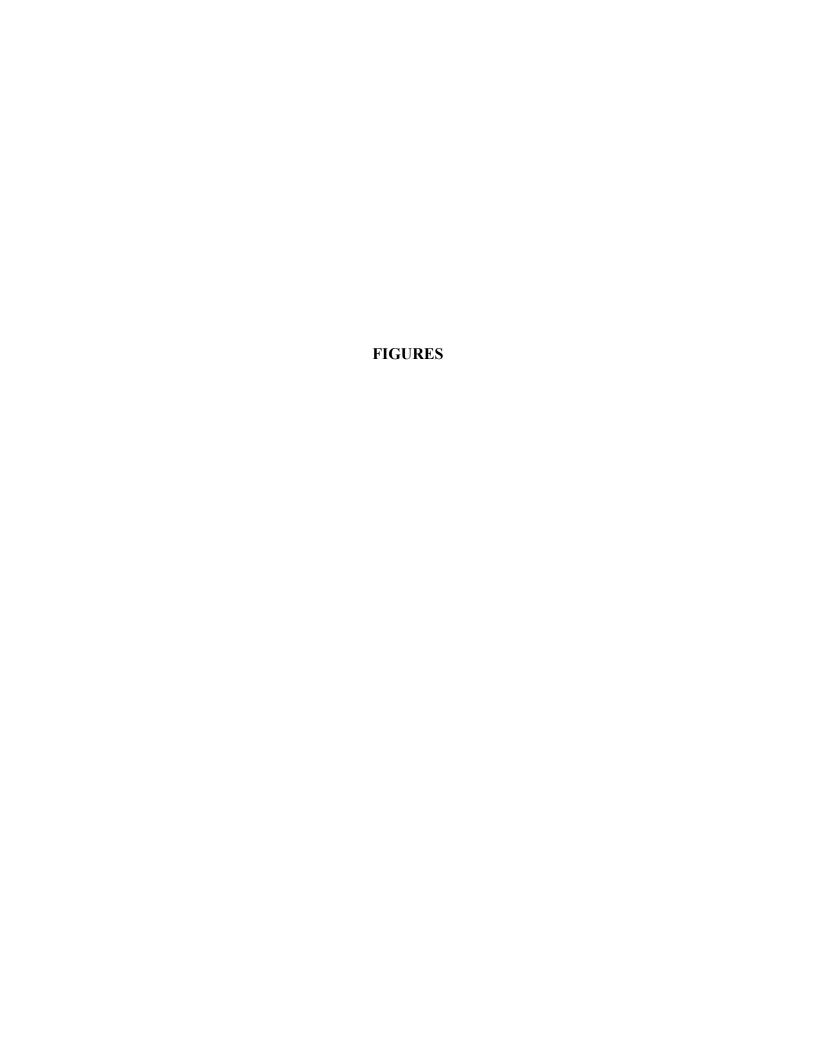
RRSCO Restricted Residential Use Soil Cleanup Objective

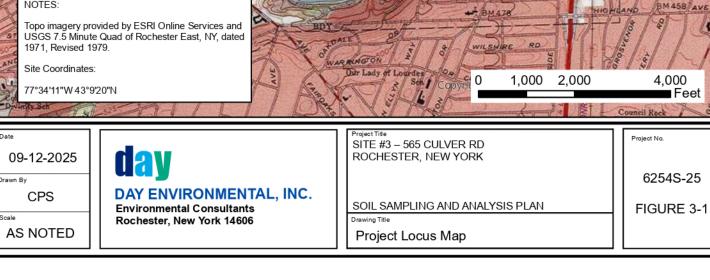
SVOC Semi-Volatile Organic Compound

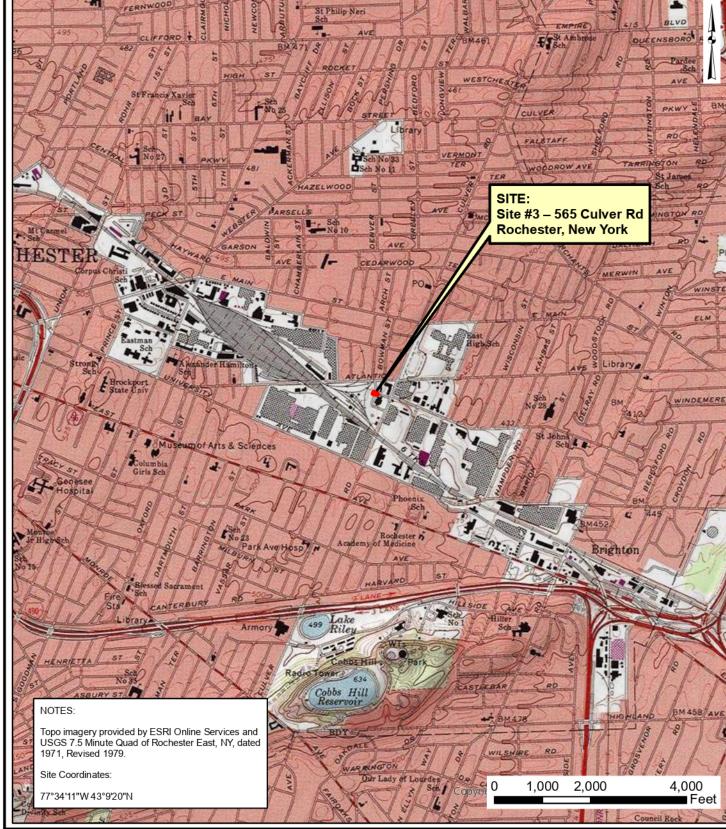
TAL Target Analyte List
TCL Target Compound List

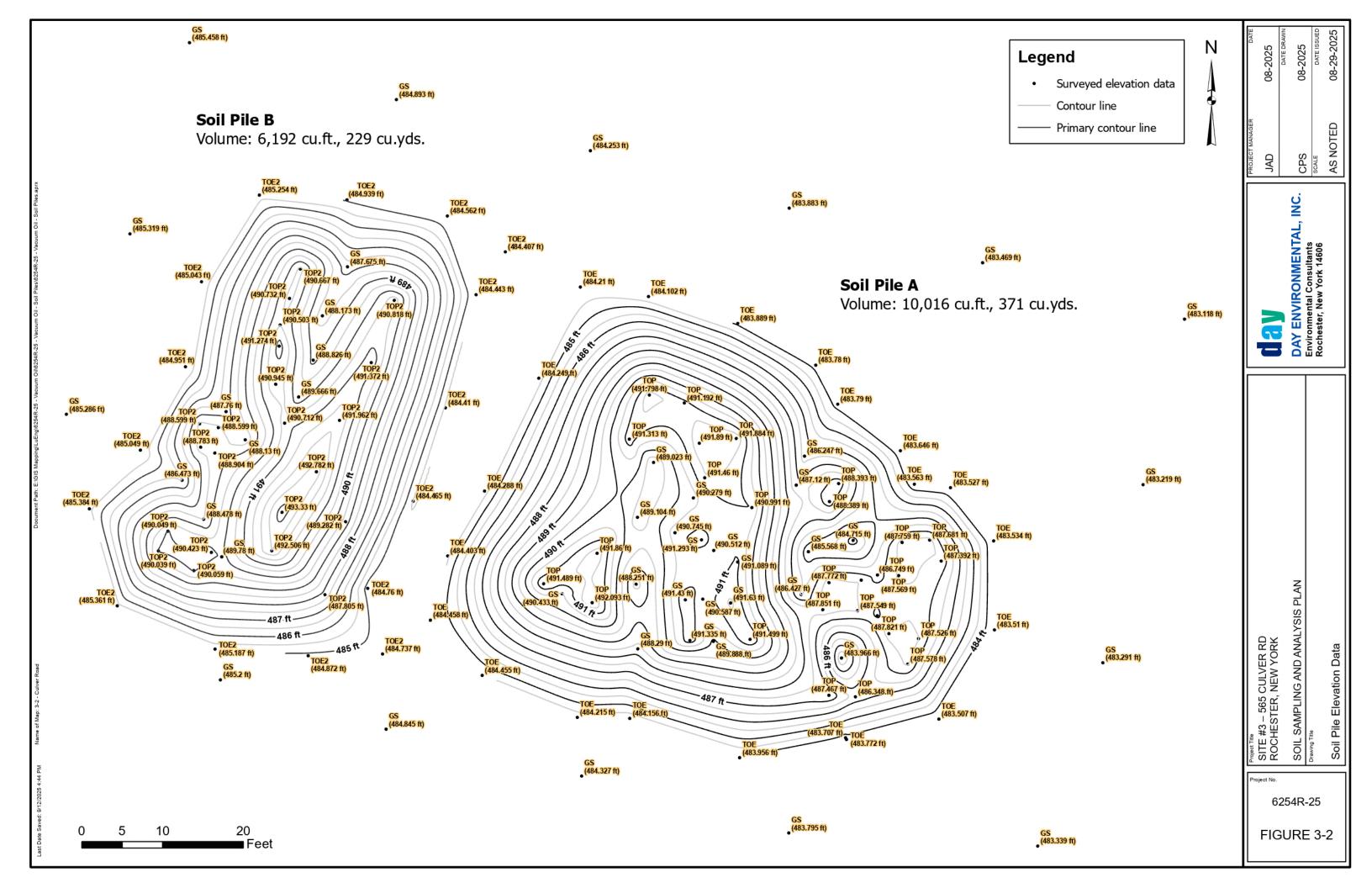
TCLP Toxicity Characteristic Leaching Procedure
USEPA United States Environmental Protection Agency

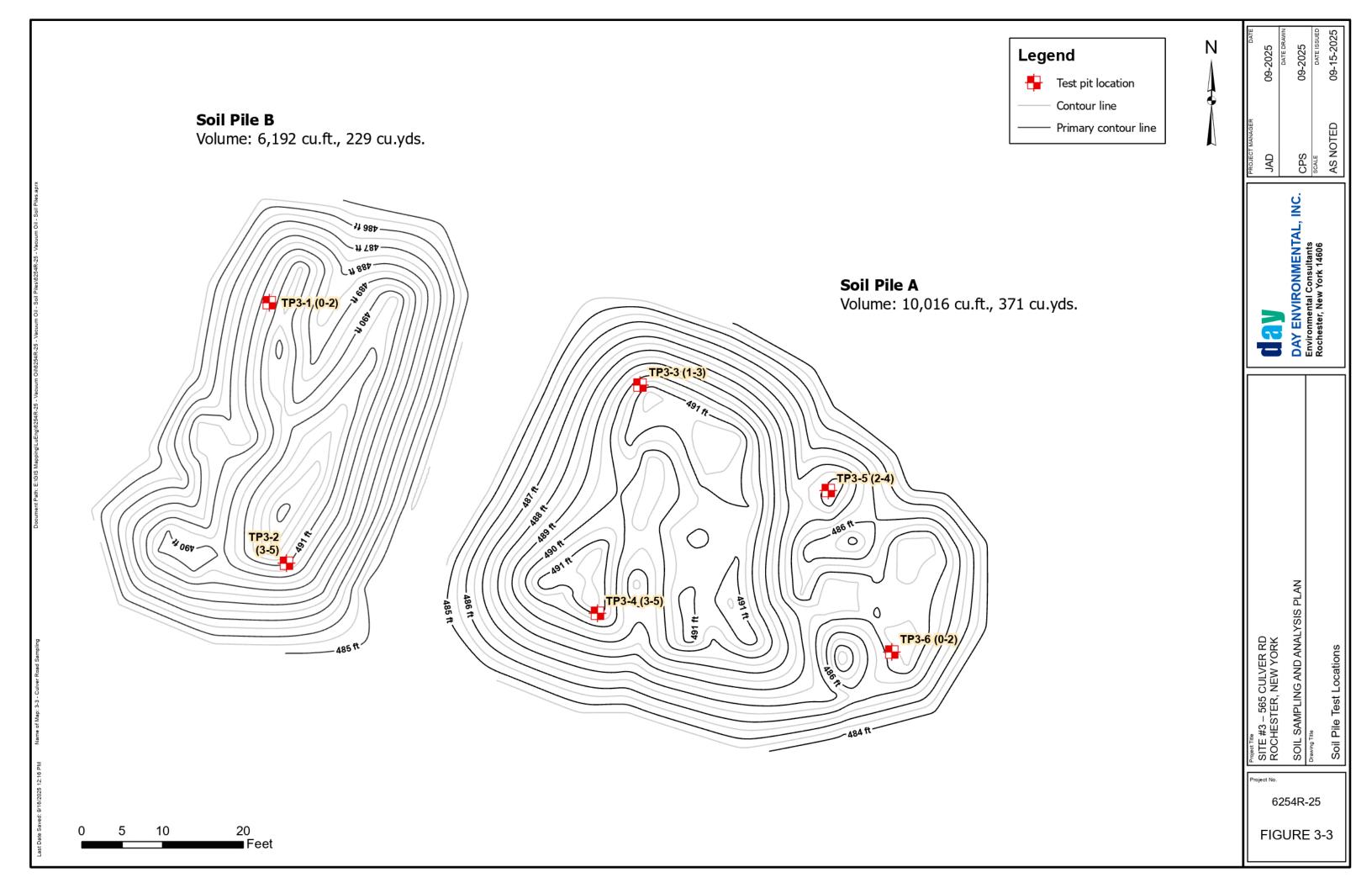
VOC Volatile Organic Compound











ATTACHMENT A

Analytical Laboratory Report for Previous Composite Samples



Analytical Report For

City of Rochester

For Lab Project ID

251473

Referencing

Park Ave Recon. Urban Fill

Prepared

Thursday, April 17, 2025

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

Portions of the enclosed report reflects analysis that has been subcontracted and are presented in their original form.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958



4/14/2025

Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #3

Lab Sample ID: 251473-01 **Date Sampled:** 4/10/2025 14:02

Matrix: Soil Date Received 4/10/2025

Ignitability

Analyte Result Units Qualifier Date Analyzed

Ignitability No Burn mm / sec

Method Reference(s): EPA 1030

Mercury

Analyte Result Units Qualifier Date Analyzed

Mercury 0.0328 mg/Kg 4/14/2025 12:05

Method Reference(s):EPA 7471BPreparation Date:4/11/2025Data File:Hg250414A

RCRA Metals (ICP)

Analyte Result **Units Oualifier Date Analyzed** 2.64 Arsenic mg/Kg 4/15/2025 09:47 42.3 Barium mg/Kg 4/15/2025 09:47 Cadmium < 0.271 4/15/2025 09:47 mg/Kg Chromium 4.49 4/15/2025 09:47 mg/Kg 69.0 Lead mg/Kg 4/15/2025 09:47

 Selenium
 < 1.08</td>
 mg/Kg
 4/15/2025
 09:47

 Silver
 < 0.542</td>
 mg/Kg
 4/15/2025
 09:47

Method Reference(s): EPA 6010C EPA 3050B Preparation Date: 4/14/2025

Data File: 250415A

pН

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 pH
 8.70 @ 21.2 C
 S.U.
 4/15/2025
 12:50

Method Reference(s): EPA 9045D



Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #3

Lab Sample ID: 251473-01 **Date Sampled:** 4/10/2025 14:02

Matrix: Soil Date Received 4/10/2025

Volatile Organics

| Analyte | <u>Result</u> | <u>Units</u> | Qualifier | Date Analyzed |
|-----------------------------|---------------|--------------|-----------|-----------------|
| 1,1,1-Trichloroethane | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| 1,1,2,2-Tetrachloroethane | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| 1,1,2-Trichloroethane | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| 1,1-Dichloroethane | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| 1,1-Dichloroethene | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| 1,2,3-Trichlorobenzene | < 16.7 | ug/Kg | | 4/17/2025 11:48 |
| 1,2,4-Trichlorobenzene | < 16.7 | ug/Kg | | 4/17/2025 11:48 |
| 1,2-Dibromo-3-Chloropropane | < 33.4 | ug/Kg | | 4/17/2025 11:48 |
| 1,2-Dibromoethane | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| 1,2-Dichlorobenzene | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| 1,2-Dichloroethane | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| 1,2-Dichloropropane | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| 1,3-Dichlorobenzene | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| 1,4-Dichlorobenzene | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| 1,4-Dioxane | < 33.4 | ug/Kg | | 4/17/2025 11:48 |
| 2-Butanone | < 33.4 | ug/Kg | | 4/17/2025 11:48 |
| 2-Hexanone | < 16.7 | ug/Kg | | 4/17/2025 11:48 |
| 4-Methyl-2-pentanone | < 16.7 | ug/Kg | | 4/17/2025 11:48 |
| Acetone | 115 | ug/Kg | | 4/17/2025 11:48 |
| Benzene | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| Bromochloromethane | < 16.7 | ug/Kg | | 4/17/2025 11:48 |
| Bromodichloromethane | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| Bromoform | < 16.7 | ug/Kg | | 4/17/2025 11:48 |
| Bromomethane | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| Carbon disulfide | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| Carbon Tetrachloride | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| Chlorobenzene | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| Chloroethane | < 6.68 | ug/Kg | | 4/17/2025 11:48 |
| | | | | |



Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

 Sample Identifier:
 Soil Pile #3

 Lab Sample ID:
 251473-01
 Date Sampled: 4/10/2025
 14:02

Matrix: Soil Date Received 4/10/2025

| Chloroform | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
|---------------------------|--------|-------|-----------|-------|
| Chloromethane | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| cis-1,2-Dichloroethene | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| cis-1,3-Dichloropropene | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Cyclohexane | < 33.4 | ug/Kg | 4/17/2025 | 11:48 |
| Dibromochloromethane | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Dichlorodifluoromethane | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Ethylbenzene | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Freon 113 | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Isopropylbenzene | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| m,p-Xylene | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Methyl acetate | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Methyl tert-butyl Ether | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Methylcyclohexane | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Methylene chloride | < 16.7 | ug/Kg | 4/17/2025 | 11:48 |
| o-Xylene | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Styrene | < 16.7 | ug/Kg | 4/17/2025 | 11:48 |
| Tetrachloroethene | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Toluene | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| trans-1,2-Dichloroethene | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| trans-1,3-Dichloropropene | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Trichloroethene | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Trichlorofluoromethane | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| Vinyl chloride | < 6.68 | ug/Kg | 4/17/2025 | 11:48 |
| | | | | |

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #3

Lab Sample ID: 251473-01 **Date Sampled:** 4/10/2025 14:02

Matrix: Soil Date Received 4/10/2025

| Surrogate | Percent Recovery | <u>Limits</u> | Outliers | Date An | alyzed |
|-----------------------|------------------|---------------|-----------------|-----------|--------|
| 1,2-Dichloroethane-d4 | 105 | 80.9 - 124 | | 4/17/2025 | 11:48 |
| 4-Bromofluorobenzene | 86.2 | 75.8 - 116 | | 4/17/2025 | 11:48 |
| Pentafluorobenzene | 89.2 | 90.7 - 109 | * | 4/17/2025 | 11:48 |
| Toluene-D8 | 94.4 | 90.1 - 109 | | 4/17/2025 | 11:48 |

Method Reference(s): EPA 8260C

EPA 5035A - L

Data File: z30543.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #3

Lab Sample ID: 251473-01A **Date Sampled:** 4/10/2025 14:02

Matrix: TCLP Extract Date Received 4/10/2025

TCLP Metals (ICP)

 Analyte
 Result
 Units
 Regulatory Limit Qualifier
 Date Analyzed

 Lead
 < 0.500</td>
 mg/L
 5
 4/14/2025 08:43

Method Reference(s):

EPA 6010C

EPA 1311 / 3005A

Preparation Date:

4/11/2025

Data File: 250414A



4/14/2025

4/15/2025 09:58

Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #4

Lab Sample ID: 251473-02 **Date Sampled:** 4/10/2025 14:02

Matrix: Soil Date Received 4/10/2025

Ignitability

Analyte Result Units Qualifier Date Analyzed

Ignitability No Burn mm / sec

Method Reference(s): EPA 1030

Mercury

Analyte Result Units Qualifier Date Analyzed

Mercury **0.0384** mg/Kg 4/14/2025 12:07

Method Reference(s):EPA 7471BPreparation Date:4/11/2025Data File:Hg250414A

RCRA Metals (ICP)

Analyte Result **Units Oualifier Date Analyzed** 2.91 Arsenic mg/Kg 4/15/2025 09:58 Barium 44.6 mg/Kg 4/15/2025 09:58 Cadmium < 0.276 mg/Kg 4/15/2025 09:58 Chromium 5.55 4/15/2025 09:58 mg/Kg Lead 81.8 mg/Kg 4/15/2025 09:58 Selenium < 1.10 mg/Kg 4/15/2025 09:58

mg/Kg

Method Reference(s):

EPA 6010C

< 0.552

EPA 3050B **Preparation Date:** 4/14/2025

Data File: 250415A

pН

Silver

Analyte Result Units Qualifier Date Analyzed

pH 8.75 @ 21.2 C S.U. 4/15/2025 12:52

Method Reference(s): EPA 9045D



Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #4

Lab Sample ID: 251473-02 **Date Sampled:** 4/10/2025 14:02

Matrix: Soil Date Received 4/10/2025

Volatile Organics

| <u>Analyte</u> | Result | <u>Units</u> | Qualifier | Date Analyzed |
|-----------------------------|--------|--------------|------------------|----------------------|
| 1,1,1-Trichloroethane | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| 1,1,2,2-Tetrachloroethane | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| 1,1,2-Trichloroethane | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| 1,1-Dichloroethane | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| 1,1-Dichloroethene | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| 1,2,3-Trichlorobenzene | < 16.2 | ug/Kg | | 4/17/2025 12:08 |
| 1,2,4-Trichlorobenzene | < 16.2 | ug/Kg | | 4/17/2025 12:08 |
| 1,2-Dibromo-3-Chloropropane | < 32.4 | ug/Kg | | 4/17/2025 12:08 |
| 1,2-Dibromoethane | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| 1,2-Dichlorobenzene | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| 1,2-Dichloroethane | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| 1,2-Dichloropropane | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| 1,3-Dichlorobenzene | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| 1,4-Dichlorobenzene | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| 1,4-Dioxane | < 32.4 | ug/Kg | | 4/17/2025 12:08 |
| 2-Butanone | < 32.4 | ug/Kg | | 4/17/2025 12:08 |
| 2-Hexanone | < 16.2 | ug/Kg | | 4/17/2025 12:08 |
| 4-Methyl-2-pentanone | < 16.2 | ug/Kg | | 4/17/2025 12:08 |
| Acetone | 51.6 | ug/Kg | | 4/17/2025 12:08 |
| Benzene | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| Bromochloromethane | < 16.2 | ug/Kg | | 4/17/2025 12:08 |
| Bromodichloromethane | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| Bromoform | < 16.2 | ug/Kg | | 4/17/2025 12:08 |
| Bromomethane | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| Carbon disulfide | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| Carbon Tetrachloride | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| Chlorobenzene | < 6.47 | ug/Kg | | 4/17/2025 12:08 |
| Chloroethane | < 6.47 | ug/Kg | | 4/17/2025 12:08 |



Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

 Sample Identifier:
 Soil Pile #4

 Lab Sample ID:
 251473-02
 Date Sampled: 4/10/2025
 14:02

Matrix: Soil Date Received 4/10/2025

| Chloroform | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
|---------------------------|--------|-------|-----------|-------|
| Chloromethane | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| cis-1,2-Dichloroethene | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| cis-1,3-Dichloropropene | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Cyclohexane | < 32.4 | ug/Kg | 4/17/2025 | 12:08 |
| Dibromochloromethane | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Dichlorodifluoromethane | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Ethylbenzene | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Freon 113 | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Isopropylbenzene | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| m,p-Xylene | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Methyl acetate | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Methyl tert-butyl Ether | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Methylcyclohexane | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Methylene chloride | < 16.2 | ug/Kg | 4/17/2025 | 12:08 |
| o-Xylene | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Styrene | < 16.2 | ug/Kg | 4/17/2025 | 12:08 |
| Tetrachloroethene | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Toluene | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| trans-1,2-Dichloroethene | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| trans-1,3-Dichloropropene | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Trichloroethene | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Trichlorofluoromethane | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| Vinyl chloride | < 6.47 | ug/Kg | 4/17/2025 | 12:08 |
| | | | | |

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #4

Lab Sample ID: 251473-02 **Date Sampled:** 4/10/2025 14:02

Matrix: Soil Date Received 4/10/2025

| <u>Surrogate</u> | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | Date An | <u>alyzed</u> |
|-----------------------|------------------|---------------|-----------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 104 | 80.9 - 124 | | 4/17/2025 | 12:08 |
| 4-Bromofluorobenzene | 84.4 | 75.8 - 116 | | 4/17/2025 | 12:08 |
| Pentafluorobenzene | 88.7 | 90.7 - 109 | * | 4/17/2025 | 12:08 |
| Toluene-D8 | 92.5 | 90.1 - 109 | | 4/17/2025 | 12:08 |

Method Reference(s): EPA 8260C

EPA 5035A - L

Data File: z30544.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #4

Lab Sample ID: 251473-02A **Date Sampled:** 4/10/2025 14:02

Matrix: TCLP Extract Date Received 4/10/2025

TCLP Metals (ICP)

 Analyte
 Result
 Units
 Regulatory Limit Qualifier
 Date Analyzed

 Lead
 < 0.500</td>
 mg/L
 5
 4/14/2025
 08:46

Method Reference(s):

EPA 6010C

EPA 1311 / 3005A

Preparation Date:

4/11/2025

Data File: 250414A



4/14/2025

4/15/2025 10:01

Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #5

Lab Sample ID: 251473-03 **Date Sampled:** 4/10/2025 14:02

Matrix: Soil Date Received 4/10/2025

Ignitability

Analyte Result Units Qualifier Date Analyzed

Ignitability No Burn mm / sec

Method Reference(s): EPA 1030

Mercury

Analyte Result Units Qualifier Date Analyzed

Mercury **0.0364** mg/Kg 4/14/2025 12:09

Method Reference(s):EPA 7471BPreparation Date:4/11/2025Data File:Hg250414A

RCRA Metals (ICP)

Analyte Result **Units Oualifier Date Analyzed** 2.42 Arsenic mg/Kg 4/15/2025 10:01 50.2 Barium mg/Kg 4/15/2025 10:01 Cadmium < 0.267 mg/Kg 4/15/2025 10:01 Chromium 4.55 4/15/2025 10:01 mg/Kg 51.2 Lead mg/Kg 4/15/2025 10:01 Selenium < 1.07 mg/Kg 4/15/2025 10:01

mg/Kg

Method Reference(s):

EPA 6010C EPA 3050B

< 0.534

Preparation Date: 4/14/2025

Data File: 250415A

pН

Silver

Analyte Result Units Qualifier Date Analyzed

pH 8.58 @ 20.7 C S.U. 4/15/2025 12:53

Method Reference(s): EPA 9045D



Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #5

Lab Sample ID: 251473-03 **Date Sampled:** 4/10/2025 14:02

Matrix: Soil Date Received 4/10/2025

Volatile Organics

| <u>Analyte</u> | Result | <u>Units</u> | Qualifier | Date Analyzed |
|-----------------------------|--------|--------------|-----------|----------------------|
| 1,1,1-Trichloroethane | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| 1,1,2,2-Tetrachloroethane | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| 1,1,2-Trichloroethane | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| 1,1-Dichloroethane | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| 1,1-Dichloroethene | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| 1,2,3-Trichlorobenzene | < 17.2 | ug/Kg | | 4/17/2025 12:27 |
| 1,2,4-Trichlorobenzene | < 17.2 | ug/Kg | | 4/17/2025 12:27 |
| 1,2-Dibromo-3-Chloropropane | < 34.5 | ug/Kg | | 4/17/2025 12:27 |
| 1,2-Dibromoethane | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| 1,2-Dichlorobenzene | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| 1,2-Dichloroethane | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| 1,2-Dichloropropane | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| 1,3-Dichlorobenzene | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| 1,4-Dichlorobenzene | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| 1,4-Dioxane | < 34.5 | ug/Kg | | 4/17/2025 12:27 |
| 2-Butanone | < 34.5 | ug/Kg | | 4/17/2025 12:27 |
| 2-Hexanone | < 17.2 | ug/Kg | | 4/17/2025 12:27 |
| 4-Methyl-2-pentanone | < 17.2 | ug/Kg | | 4/17/2025 12:27 |
| Acetone | 49.9 | ug/Kg | | 4/17/2025 12:27 |
| Benzene | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| Bromochloromethane | < 17.2 | ug/Kg | | 4/17/2025 12:27 |
| Bromodichloromethane | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| Bromoform | < 17.2 | ug/Kg | | 4/17/2025 12:27 |
| Bromomethane | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| Carbon disulfide | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| Carbon Tetrachloride | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| Chlorobenzene | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| Chloroethane | < 6.90 | ug/Kg | | 4/17/2025 12:27 |
| | | | | |



Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #5

Lab Sample ID: 251473-03

Date Sampled: 4/10/2025 14:02

Matrix: Soil Date Received 4/10/2025

| Chloroform | < 6.90 | ug/Kg | 4/17/2025 12:27 |
|---------------------------|--------|-------|-----------------|
| Chloromethane | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| cis-1,2-Dichloroethene | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| cis-1,3-Dichloropropene | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Cyclohexane | < 34.5 | ug/Kg | 4/17/2025 12:27 |
| Dibromochloromethane | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Dichlorodifluoromethane | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Ethylbenzene | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Freon 113 | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Isopropylbenzene | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| m,p-Xylene | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Methyl acetate | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Methyl tert-butyl Ether | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Methylcyclohexane | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Methylene chloride | < 17.2 | ug/Kg | 4/17/2025 12:27 |
| o-Xylene | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Styrene | < 17.2 | ug/Kg | 4/17/2025 12:27 |
| Tetrachloroethene | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Toluene | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| trans-1,2-Dichloroethene | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| trans-1,3-Dichloropropene | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Trichloroethene | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Trichlorofluoromethane | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| Vinyl chloride | < 6.90 | ug/Kg | 4/17/2025 12:27 |
| | | | |

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #5

Lab Sample ID: 251473-03 **Date Sampled:** 4/10/2025 14:02

Matrix: Soil Date Received 4/10/2025

| Surrogate | Percent Recovery | <u>Limits</u> | <u>Outliers</u> | Date An | <u>alyzed</u> |
|-----------------------|------------------|---------------|-----------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 80.9 - 124 | | 4/17/2025 | 12:27 |
| 4-Bromofluorobenzene | 88.5 | 75.8 - 116 | | 4/17/2025 | 12:27 |
| Pentafluorobenzene | 93.3 | 90.7 - 109 | | 4/17/2025 | 12:27 |
| Toluene-D8 | 96.8 | 90.1 - 109 | | 4/17/2025 | 12:27 |

Method Reference(s): EPA 8260C

EPA 5035A - L

Data File: z30545.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: <u>City of Rochester</u>

Project Reference: Park Ave Recon. Urban Fill

Sample Identifier: Soil Pile #5

Lab Sample ID: 251473-03A **Date Sampled:** 4/10/2025 14:02

Matrix: TCLP Extract Date Received 4/10/2025

TCLP Metals (ICP)

 Analyte
 Result
 Units
 Regulatory Limit Qualifier
 Date Analyzed

 Lead
 < 0.500</td>
 mg/L
 5
 4/14/2025 08:49

Method Reference(s):

EPA 6010C

EPA 1311 / 3005A

Preparation Date:

4/11/2025

Data File: 250414A



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

- "<" = Analyzed for but not detected at or above the quantitation limit.
- "E" = Result has been estimated, calibration limit exceeded.
- "H" = Denotes a parameter analyzed outside of holding time.
- "Z" = See case narrative.
- "D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
- "M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
- "B" = Method blank contained trace levels of analyte. Refer to included method blank report.
- "I" = Result estimated between the quantitation limit and half the quantitation limit.
- "L" = Laboratory Control Sample recovery outside accepted QC limits.
- "P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
- "NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
- "*" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
- "(1)" = Indicates data from primary column used for QC calculation.
- "A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
- "F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to reperform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any

environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

| _ |
|----|
| 27 |
| Y |

| PARADIGM ENVIRONMENTAL SERVICES | REPORT TO: COMPANY CHI & KOCK OLIVES address: 3 & Church Staffy STAFFY | CHAIN OF CUSTODY COMPANY: SAME LIPYLO PORTESS: 15 TIPYLO PORTES | Cuotation #: |
|---|---|--|--|
| Parcific REFERENCE UNDANTIL | Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid | wa - water ww - wastewater so - Soil wa - Groundwater ww - wastewater St - Sludge | SD-Solid WP-Wipe OL-Oil PT-Paint CK-Caulk AR-Air |
| DATE COLLECTED TIME O A A B I B | SAMPLE IDENTIFIER | X-20-12 M ON TO 21 M ON TO 21 M ON TO CO. TO 21 M ON TO CO. TOL VOIS TOL SUCCE ROCA Metas Parts POBS POBS PH Ignitabilia Peacl S React CN TOLP Pb | REMARKS PARADIGM L SAMPLE NUMBER |
| X | 201 6/10 #3 | | A for TCLP extract. 01A 60410125 031 |
| | | | |
| Turnaround Time Report Supplements Availability contingent upon lab approval; additional fees may apply. | Report Supplements roval; additional fees may apply. | Jane tobes 4/10/2025 14 | 1402 |
| Standard 5 day None Required 10 day Batch QC | None Required Basic EDD | Sampled By Patientime Patientime Dajettime Dajettime | Total Cost: |
| Rush 3 day Category A Rush 2 day Category B Rush 1 day | NYSDEC EDD | Beceived By U/10/25 16:15 Roceived By U/10/25 16:15 | 1610 PLIF. |
| Other Other old please indicate package needed: | Other EDD please indicate EDD needed : | By signing this form, client agrees to Paradigm Terms and Conditions (reverse). $ f(x) \leq f$ | onditions (reverse). |



Chain of Custody Supplement

| Client: | | City of Rochistir | Completed by: Date: | + 10/2005 | , |
|---|------------|---|---|---------------|------------|
| Lab Project ID: Sample Condition Requirements Per NELAC/ELAP 210/241/242/243/244 | | | | | |
| Condition | | NELAC compliance with the sample Yes | le condition requirements upon re No | eceipt N/A | |
| Container Type | | | 105035 | | |
| | Comments | and the | (Culous) | | |
| Transferred to me compliant contain | | J. 932 | g) (Subout) | | |
| Headspace (<1 mL) | Comments = | | LO VOA | | |
| | | | | | |
| Preservation | Comments | | | | |
| | | | | | |
| Chlorine Absent (<0.10 ppm per | | | | | |
| | | 1 | | | |
| Holding Time | Comments | | | | |
| | | | | | |
| Temperature | Comments | 1700 | | [Mtas | lelkept fr |
| Compliant Sam | | Туре | | | 2 |
| × | Comments | | | | |



ANALYTICAL REPORT

Lab Number: L2522084

Client: Paradigm Environmental Services

179 Lake Avenue Rochester, NY 14608

ATTN: Steve DeVito Phone: (585) 647-2530

Project Name: 251473
Project Number: 251473
Report Date: 04/17/25

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

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Lab Number: Report Date:

L2522084 04/17/25

Project Number: 251473
Project Number: 251473

Lab Sample ID L2522084-02 L2522084-01 SOIL PILE #4 251473-02 SOIL PILE #3 251473-01 Client ID SOIL SOIL Matrix Sample Location Not Specified Not Specified Collection Date/Time 04/10/25 14:02 04/10/25 14:02 04/10/25 04/10/25 Receive Date

L2522084-03

SOIL PILE #5 251473-03

SOIL

Not Specified

04/10/25 14:02

04/10/25



 Project Name:
 251473
 Lab Number:
 L2522084

 Project Number:
 251473
 Report Date:
 04/17/25

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 Pace 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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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, Pace'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 Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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



Project Name: 251473
Project Number: 251473

Lab Number:

L2522084

Report Date:

04/17/25

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.

Semivolatile Organics

L2522084-01 and -02: The sample has elevated detection limits due to limited sample volume available for analysis.

Herbicides

L2522084-01 and -02: The sample has elevated detection limits due to limited sample volume available for 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.

Cattlin Wallet Caitlin Walukevich

Authorized Signature:

Title: Technical Director/Representative

Date: 04/17/25

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ORGANICS

SEMIVOLATILES

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-01 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #3 251473-01 Date Received: 04/10/25
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270E Extraction Date: 04/13/25 01:22

Analytical Date: 04/15/25 12:42

Analyst: RMP Percent Solids: 90%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|------------------------------------|----------------|-----------|-------|------|-----|-----------------|--|
| Semivolatile Organics by GC/MS - W | estborough Lab | | | | | | |
| Acenaphthene | 37 | J | ug/kg | 290 | 37. | 1 | |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 360 | 41. | 1 | |
| Hexachlorobenzene | ND | | ug/kg | 210 | 40. | 1 | |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 320 | 48. | 1 | |
| 2-Chloronaphthalene | ND | | ug/kg | 360 | 35. | 1 | |
| 1,2-Dichlorobenzene | ND | | ug/kg | 360 | 64. | 1 | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 360 | 62. | 1 | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 360 | 62. | 1 | |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 360 | 95. | 1 | |
| 2,4-Dinitrotoluene | ND | | ug/kg | 360 | 72. | 1 | |
| 2,6-Dinitrotoluene | ND | | ug/kg | 360 | 61. | 1 | |
| Fluoranthene | 1200 | | ug/kg | 210 | 41. | 1 | |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 360 | 38. | 1 | |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 360 | 54. | 1 | |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 430 | 61. | 1 | |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 390 | 36. | 1 | |
| Hexachlorobutadiene | ND | | ug/kg | 360 | 52. | 1 | |
| Hexachlorocyclopentadiene | ND | | ug/kg | 1000 | 320 | 1 | |
| Hexachloroethane | ND | | ug/kg | 290 | 58. | 1 | |
| Isophorone | ND | | ug/kg | 320 | 46. | 1 | |
| Naphthalene | 120 | J | ug/kg | 360 | 44. | 1 | |
| Nitrobenzene | ND | | ug/kg | 320 | 53. | 1 | |
| NDPA/DPA | ND | | ug/kg | 290 | 41. | 1 | |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 360 | 55. | 1 | |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 360 | 120 | 1 | |
| Butyl benzyl phthalate | ND | | ug/kg | 360 | 90. | 1 | |
| Di-n-butylphthalate | ND | | ug/kg | 360 | 68. | 1 | |
| Di-n-octylphthalate | ND | | ug/kg | 360 | 120 | 1 | |
| | | | | | | | |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-01 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #3 251473-01 Date Received: 04/10/25
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-------------------------------------|----------------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - We | estborough Lab | | | | | |
| Diethyl phthalate | ND | | ug/kg | 360 | 33. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 360 | 75. | 1 |
| Benzo(a)anthracene | 710 | | ug/kg | 210 | 40. | <u>.</u> 1 |
| Benzo(a)pyrene | 810 | | ug/kg | 290 | 87. | 1 |
| Benzo(b)fluoranthene | 890 | | ug/kg | 210 | 60. | 1 |
| Benzo(k)fluoranthene | 400 | | ug/kg | 210 | 57. | 1 |
| Chrysene | 670 | | ug/kg | 210 | 37. | 1 |
| Acenaphthylene | 110 | J | ug/kg | 290 | 55. | 1 |
| Anthracene | 190 | J | ug/kg | 210 | 70. | 1 |
| Benzo(ghi)perylene | 590 | | ug/kg | 290 | 42. | 1 |
| Fluorene | 54 | J | ug/kg | 360 | 35. | 1 |
| Phenanthrene | 520 | | ug/kg | 210 | 43. | 1 |
| Dibenzo(a,h)anthracene | 100 | J | ug/kg | 210 | 41. | 1 |
| Indeno(1,2,3-cd)pyrene | 410 | | ug/kg | 290 | 50. | 1 |
| Pyrene | 1100 | | ug/kg | 210 | 36. | 1 |
| Biphenyl | ND | | ug/kg | 820 | 46. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 360 | 65. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 360 | 69. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 360 | 67. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 360 | 150 | 1 |
| Dibenzofuran | 47 | J | ug/kg | 360 | 34. | 1 |
| 2-Methylnaphthalene | 94 | J | ug/kg | 430 | 43. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 360 | 37. | 1 |
| Acetophenone | ND | | ug/kg | 360 | 44. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 210 | 68. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 360 | 53. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 360 | 42. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 320 | 58. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 360 | 120 | 1 |
| 2-Nitrophenol | ND | | ug/kg | 770 | 130 | 1 |
| 4-Nitrophenol | ND | | ug/kg | 500 | 140 | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 1700 | 170 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 930 | 170 | 1 |
| Pentachlorophenol | ND | | ug/kg | 290 | 79. | 1 |
| Phenol | ND | | ug/kg | 360 | 54. | 1 |
| 2-Methylphenol | ND | | ug/kg | 360 | 55. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 520 | 56. | 1 |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-01 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #3 251473-01 Date Received: 04/10/25
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-------------------------------------|----------------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - We | estborough Lab | | | | | |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 360 | 68. | 1 |
| Benzoic Acid | ND | | ug/kg | 1200 | 360 | 1 |
| Benzyl Alcohol | ND | | ug/kg | 360 | 110 | 1 |
| Carbazole | 39 | J | ug/kg | 360 | 35. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 54 | 16. | 1 |

| Surrogate | % Recovery | Acceptance Qualifier Criteria |
|----------------------|------------|----------------------------------|
| 2-Fluorophenol | 83 | 25-120 |
| Phenol-d6 | 86 | 10-120 |
| Nitrobenzene-d5 | 86 | 23-120 |
| 2-Fluorobiphenyl | 96 | 30-120 |
| 2,4,6-Tribromophenol | 77 | 10-136 |
| 4-Terphenyl-d14 | 88 | 18-120 |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-02 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #4 251473-02 Date Received: 04/10/25
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270E Extraction Date: 04/13/25 01:22

Analytical Date: 04/15/25 13:00

Analyst: RMP Percent Solids: 89%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|------------------------------------|-----------------|-----------|-------|------|-----|-----------------|--|
| Semivolatile Organics by GC/MS - \ | Westborough Lab | | | | | | |
| Acenaphthene | 69 | J | ug/kg | 290 | 38. | 1 | |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 360 | 41. | 1 | |
| Hexachlorobenzene | ND | | ug/kg | 220 | 40. | 1 | |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 330 | 49. | 1 | |
| 2-Chloronaphthalene | ND | | ug/kg | 360 | 36. | 1 | |
| 1,2-Dichlorobenzene | ND | | ug/kg | 360 | 65. | 1 | |
| 1,3-Dichlorobenzene | ND | | ug/kg | 360 | 62. | 1 | |
| 1,4-Dichlorobenzene | ND | | ug/kg | 360 | 63. | 1 | |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 360 | 96. | 1 | |
| 2,4-Dinitrotoluene | ND | | ug/kg | 360 | 72. | 1 | |
| 2,6-Dinitrotoluene | ND | | ug/kg | 360 | 62. | 1 | |
| Fluoranthene | 1500 | | ug/kg | 220 | 42. | 1 | |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 360 | 39. | 1 | |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 360 | 55. | 1 | |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 430 | 62. | 1 | |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 390 | 36. | 1 | |
| Hexachlorobutadiene | ND | | ug/kg | 360 | 53. | 1 | |
| Hexachlorocyclopentadiene | ND | | ug/kg | 1000 | 330 | 1 | |
| Hexachloroethane | ND | | ug/kg | 290 | 59. | 1 | |
| Isophorone | ND | | ug/kg | 330 | 47. | 1 | |
| Naphthalene | 79 | J | ug/kg | 360 | 44. | 1 | |
| Nitrobenzene | ND | | ug/kg | 330 | 54. | 1 | |
| NDPA/DPA | ND | | ug/kg | 290 | 41. | 1 | |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 360 | 56. | 1 | |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 360 | 120 | 1 | |
| Butyl benzyl phthalate | ND | | ug/kg | 360 | 91. | 1 | |
| Di-n-butylphthalate | ND | | ug/kg | 360 | 69. | 1 | |
| Di-n-octylphthalate | ND | | ug/kg | 360 | 120 | 1 | |
| | | | | | | | |

Project Name: Lab Number: 251473 L2522084

Project Number: Report Date: 251473 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-02 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #4 251473-02 Date Received: 04/10/25 Sample Location: Field Prep: Not Specified Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-------------------------------------|----------------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - We | estborough Lab | | | | | |
| Diethyl phthalate | ND | | ug/kg | 360 | 34. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 360 | 76. | 1 |
| Benzo(a)anthracene | 840 | | ug/kg | 220 | 41. | 1 |
| Benzo(a)pyrene | 920 | | ug/kg | 290 | 88. | 1 |
| Benzo(b)fluoranthene | 1200 | | ug/kg | 220 | 61. | 1 |
| Benzo(k)fluoranthene | 320 | | ug/kg | 220 | 58. | 1 |
| Chrysene | 850 | | ug/kg | 220 | 38. | 1 |
| Acenaphthylene | 130 | J | ug/kg | 290 | 56. | 1 |
| Anthracene | 290 | | ug/kg | 220 | 71. | 1 |
| Benzo(ghi)perylene | 610 | | ug/kg | 290 | 43. | 1 |
| Fluorene | 89 | J | ug/kg | 360 | 35. | 1 |
| Phenanthrene | 830 | | ug/kg | 220 | 44. | 1 |
| Dibenzo(a,h)anthracene | 120 | J | ug/kg | 220 | 42. | 1 |
| Indeno(1,2,3-cd)pyrene | 410 | | ug/kg | 290 | 50. | 1 |
| Pyrene | 1300 | | ug/kg | 220 | 36. | 1 |
| Biphenyl | ND | | ug/kg | 830 | 47. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 360 | 66. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 360 | 70. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 360 | 68. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 360 | 150 | 1 |
| Dibenzofuran | 78 | J | ug/kg | 360 | 34. | 1 |
| 2-Methylnaphthalene | 76 | J | ug/kg | 430 | 44. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 360 | 38. | 1 |
| Acetophenone | ND | | ug/kg | 360 | 45. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 220 | 69. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 360 | 54. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 360 | 43. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 330 | 58. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 360 | 120 | 1 |
| 2-Nitrophenol | ND | | ug/kg | 780 | 140 | 1 |
| 4-Nitrophenol | ND | | ug/kg | 510 | 150 | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 1700 | 170 | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 940 | 170 | 1 |
| Pentachlorophenol | ND | | ug/kg | 290 | 80. | 1 |
| Phenol | ND | | ug/kg | 360 | 55. | 1 |
| 2-Methylphenol | ND | | ug/kg | 360 | 56. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 520 | 57. | 1 |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-02 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #4 251473-02 Date Received: 04/10/25
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 | | | | | |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 360 | 69. | 1 |
| Benzoic Acid | ND | | ug/kg | 1200 | 370 | 1 |
| Benzyl Alcohol | ND | | ug/kg | 360 | 110 | 1 |
| Carbazole | 66 | J | ug/kg | 360 | 35. | 1 |
| 1,4-Dioxane | ND | | ug/kg | 54 | 17. | 1 |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|----------------------|------------|----------------------------------|--|
| 2-Fluorophenol | 91 | 25-120 | |
| Phenol-d6 | 90 | 10-120 | |
| Nitrobenzene-d5 | 83 | 23-120 | |
| 2-Fluorobiphenyl | 99 | 30-120 | |
| 2,4,6-Tribromophenol | 75 | 10-136 | |
| 4-Terphenyl-d14 | 87 | 18-120 | |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-03 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #5 251473-03 Date Received: 04/10/25
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8270E Extraction Date: 04/13/25 01:22

Analytical Date: 04/16/25 09:45
Analyst: SLR

Analyst: SLR Percent Solids: 87%

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------------|---------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Wes | stborough Lab | | | | | |
| Acenaphthene | 37 | J | ug/kg | 150 | 20. | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 190 | 22. | 1 |
| Hexachlorobenzene | ND | | ug/kg | 110 | 21. | 1 |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 170 | 26. | 1 |
| 2-Chloronaphthalene | ND | | ug/kg | 190 | 19. | 1 |
| 1,2-Dichlorobenzene | ND | | ug/kg | 190 | 34. | 1 |
| 1,3-Dichlorobenzene | ND | | ug/kg | 190 | 32. | 1 |
| 1,4-Dichlorobenzene | ND | | ug/kg | 190 | 33. | 1 |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 190 | 50. | 1 |
| 2,4-Dinitrotoluene | ND | | ug/kg | 190 | 38. | 1 |
| 2,6-Dinitrotoluene | ND | | ug/kg | 190 | 32. | 1 |
| Fluoranthene | 1200 | | ug/kg | 110 | 22. | 1 |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 190 | 20. | 1 |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 190 | 29. | 1 |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 230 | 32. | 1 |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 200 | 19. | 1 |
| Hexachlorobutadiene | ND | | ug/kg | 190 | 28. | 1 |
| Hexachlorocyclopentadiene | ND | | ug/kg | 540 | 170 | 1 |
| Hexachloroethane | ND | | ug/kg | 150 | 30. | 1 |
| Isophorone | ND | | ug/kg | 170 | 24. | 1 |
| Naphthalene | 74 | J | ug/kg | 190 | 23. | 1 |
| Nitrobenzene | ND | | ug/kg | 170 | 28. | 1 |
| NDPA/DPA | ND | | ug/kg | 150 | 22. | 1 |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 190 | 29. | 1 |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 190 | 65. | 1 |
| Butyl benzyl phthalate | ND | | ug/kg | 190 | 48. | 1 |
| Di-n-butylphthalate | ND | | ug/kg | 190 | 36. | 1 |
| Di-n-octylphthalate | ND | | ug/kg | 190 | 64. | 1 |
| | | | | | | |

Project Name: Lab Number: 251473 L2522084

Project Number: Report Date: 251473 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-03 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #5 251473-03 Date Received: 04/10/25

Sample Location: Field Prep: Not Specified Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------|-------------------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - | · Westborough Lab | | | | | |
| Diethyl phthalate | ND | | ug/kg | 190 | 18. | 1 |
| Dimethyl phthalate | ND | | ug/kg | 190 | 40. | 1 |
| Benzo(a)anthracene | 750 | | ug/kg | 110 | 21. | 1 |
| Benzo(a)pyrene | 830 | | ug/kg | 150 | 46. | 1 |
| Benzo(b)fluoranthene | 900 | | ug/kg | 110 | 32. | 1 |
| Benzo(k)fluoranthene | 460 | | ug/kg | 110 | 30. | 1 |
| Chrysene | 730 | | ug/kg | 110 | 20. | 1 |
| Acenaphthylene | 130 | J | ug/kg | 150 | 29. | 1 |
| Anthracene | 200 | | ug/kg | 110 | 37. | 1 |
| Benzo(ghi)perylene | 640 | | ug/kg | 150 | 22. | 1 |
| Fluorene | 63 | J | ug/kg | 190 | 18. | 1 |
| Phenanthrene | 570 | | ug/kg | 110 | 23. | 1 |
| Dibenzo(a,h)anthracene | 130 | | ug/kg | 110 | 22. | 1 |
| Indeno(1,2,3-cd)pyrene | 450 | | ug/kg | 150 | 26. | 1 |
| Pyrene | 1100 | | ug/kg | 110 | 19. | 1 |
| Biphenyl | ND | | ug/kg | 430 | 24. | 1 |
| 4-Chloroaniline | ND | | ug/kg | 190 | 34. | 1 |
| 2-Nitroaniline | ND | | ug/kg | 190 | 36. | 1 |
| 3-Nitroaniline | ND | | ug/kg | 190 | 36. | 1 |
| 4-Nitroaniline | ND | | ug/kg | 190 | 78. | 1 |
| Dibenzofuran | 52 | J | ug/kg | 190 | 18. | 1 |
| 2-Methylnaphthalene | 66 | J | ug/kg | 230 | 23. | 1 |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 190 | 20. | 1 |
| Acetophenone | ND | | ug/kg | 190 | 23. | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 110 | 36. | 1 |
| p-Chloro-m-cresol | ND | | ug/kg | 190 | 28. | 1 |
| 2-Chlorophenol | ND | | ug/kg | 190 | 22. | 1 |
| 2,4-Dichlorophenol | ND | | ug/kg | 170 | 30. | 1 |
| 2,4-Dimethylphenol | ND | | ug/kg | 190 | 62. | 1 |
| 2-Nitrophenol | ND | | ug/kg | 410 | 71. | 1 |
| 4-Nitrophenol | ND | | ug/kg | 260 | 77. | 1 |
| 2,4-Dinitrophenol | ND | | ug/kg | 910 | 88. | 1 |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 490 | 91. | 1 |
| Pentachlorophenol | ND | | ug/kg | 150 | 42. | 1 |
| Phenol | ND | | ug/kg | 190 | 28. | 1 |
| 2-Methylphenol | ND | | ug/kg | 190 | 29. | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 270 | 30. | 1 |



Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-03 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #5 251473-03 Date Received: 04/10/25 Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | |
|-------------------------------------|---------------|-----------|-------|-----|-----|-----------------|--|
| Semivolatile Organics by GC/MS - We | stborough Lab | | | | | | |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 190 | 36. | 1 | |
| Benzoic Acid | ND | | ug/kg | 610 | 190 | 1 | |
| Benzyl Alcohol | ND | | ug/kg | 190 | 58. | 1 | |
| Carbazole | 63 | J | ug/kg | 190 | 18. | 1 | |
| 1,4-Dioxane | ND | | ug/kg | 28 | 8.7 | 1 | |

| Surrogate | % Recovery | Acceptance Qualifier Criteria | |
|----------------------|------------|----------------------------------|--|
| 2-Fluorophenol | 65 | 25-120 | |
| Phenol-d6 | 70 | 10-120 | |
| Nitrobenzene-d5 | 67 | 23-120 | |
| 2-Fluorobiphenyl | 76 | 30-120 | |
| 2,4,6-Tribromophenol | 53 | 10-136 | |
| 4-Terphenyl-d14 | 65 | 18-120 | |

Project Name: 251473 **Project Number:** 251473

Lab Number:

Report Date: 04/17/25

L2522084

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E Analytical Date: 04/14/25 01:23

Analyst: SLR Extraction Method: EPA 3546 04/13/25 01:22 Extraction Date:

| arameter | Result | Qualifier | Units | RL | | MDL |
|------------------------------|----------------|-------------|-----------|-------|--------|-------------|
| emivolatile Organics by GC/M | S - Westboroug | h Lab for s | ample(s): | 01-03 | Batch: | WG2053067-1 |
| Acenaphthene | ND | | ug/kg | 130 | | 17. |
| 1,2,4-Trichlorobenzene | ND | | ug/kg | 160 | | 19. |
| Hexachlorobenzene | ND | | ug/kg | 99 | | 18. |
| Bis(2-chloroethyl)ether | ND | | ug/kg | 150 | | 22. |
| 2-Chloronaphthalene | ND | | ug/kg | 160 | | 16. |
| 1,2-Dichlorobenzene | ND | | ug/kg | 160 | | 30. |
| 1,3-Dichlorobenzene | ND | | ug/kg | 160 | | 28. |
| 1,4-Dichlorobenzene | ND | | ug/kg | 160 | | 29. |
| 3,3'-Dichlorobenzidine | ND | | ug/kg | 160 | | 44. |
| 2,4-Dinitrotoluene | ND | | ug/kg | 160 | | 33. |
| 2,6-Dinitrotoluene | ND | | ug/kg | 160 | | 28. |
| Fluoranthene | ND | | ug/kg | 99 | | 19. |
| 4-Chlorophenyl phenyl ether | ND | | ug/kg | 160 | | 18. |
| 4-Bromophenyl phenyl ether | ND | | ug/kg | 160 | | 25. |
| Bis(2-chloroisopropyl)ether | ND | | ug/kg | 200 | | 28. |
| Bis(2-chloroethoxy)methane | ND | | ug/kg | 180 | | 16. |
| Hexachlorobutadiene | ND | | ug/kg | 160 | | 24. |
| Hexachlorocyclopentadiene | ND | | ug/kg | 470 | | 150 |
| Hexachloroethane | ND | | ug/kg | 130 | | 27. |
| Isophorone | ND | | ug/kg | 150 | | 21. |
| Naphthalene | ND | | ug/kg | 160 | | 20. |
| Nitrobenzene | ND | | ug/kg | 150 | | 24. |
| NDPA/DPA | ND | | ug/kg | 130 | | 19. |
| n-Nitrosodi-n-propylamine | ND | | ug/kg | 160 | | 25. |
| Bis(2-ethylhexyl)phthalate | ND | | ug/kg | 160 | | 57. |
| Butyl benzyl phthalate | ND | | ug/kg | 160 | | 42. |
| Di-n-butylphthalate | ND | | ug/kg | 160 | | 31. |
| Di-n-octylphthalate | ND | | ug/kg | 160 | | 56. |
| Diethyl phthalate | ND | | ug/kg | 160 | | 15. |

L2522084

Project Name: 251473 **Project Number:** 251473

Report Date:

Lab Number:

04/17/25

Method Blank Analysis Batch Quality Control

Analytical Method: Analytical Date:

1,8270E 04/14/25 01:23

Analyst:

SLR

Extraction Method: EPA 3546 04/13/25 01:22 Extraction Date:

| arameter | Result | Qualifier | Units | RL | | MDL |
|------------------------------|-------------------|--------------|-----------|-------|--------|-------------|
| emivolatile Organics by GC/N | //S - Westborough | n Lab for sa | ample(s): | 01-03 | Batch: | WG2053067-1 |
| Dimethyl phthalate | ND | | ug/kg | 160 | | 35. |
| Benzo(a)anthracene | ND | | ug/kg | 99 | | 18. |
| Benzo(a)pyrene | ND | | ug/kg | 130 | | 40. |
| Benzo(b)fluoranthene | ND | | ug/kg | 99 | | 28. |
| Benzo(k)fluoranthene | ND | | ug/kg | 99 | | 26. |
| Chrysene | ND | | ug/kg | 99 | | 17. |
| Acenaphthylene | ND | | ug/kg | 130 | | 25. |
| Anthracene | ND | | ug/kg | 99 | | 32. |
| Benzo(ghi)perylene | ND | | ug/kg | 130 | | 19. |
| Fluorene | ND | | ug/kg | 160 | | 16. |
| Phenanthrene | ND | | ug/kg | 99 | | 20. |
| Dibenzo(a,h)anthracene | ND | | ug/kg | 99 | | 19. |
| Indeno(1,2,3-cd)pyrene | ND | | ug/kg | 130 | | 23. |
| Pyrene | ND | | ug/kg | 99 | | 16. |
| Biphenyl | ND | | ug/kg | 380 | | 21. |
| 4-Chloroaniline | ND | | ug/kg | 160 | | 30. |
| 2-Nitroaniline | ND | | ug/kg | 160 | | 32. |
| 3-Nitroaniline | ND | | ug/kg | 160 | | 31. |
| 4-Nitroaniline | ND | | ug/kg | 160 | | 68. |
| Dibenzofuran | ND | | ug/kg | 160 | | 16. |
| 2-Methylnaphthalene | ND | | ug/kg | 200 | | 20. |
| 1,2,4,5-Tetrachlorobenzene | ND | | ug/kg | 160 | | 17. |
| Acetophenone | ND | | ug/kg | 160 | | 20. |
| 2,4,6-Trichlorophenol | ND | | ug/kg | 99 | | 31. |
| p-Chloro-m-cresol | ND | | ug/kg | 160 | | 24. |
| 2-Chlorophenol | ND | | ug/kg | 160 | | 20. |
| 2,4-Dichlorophenol | ND | | ug/kg | 150 | | 26. |
| 2,4-Dimethylphenol | ND | | ug/kg | 160 | | 54. |
| 2-Nitrophenol | ND | | ug/kg | 360 | | 62. |

 Project Name:
 251473
 Lab Number:
 L2522084

 Project Number:
 251473
 Report Date:
 04/17/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E Analytical Date: 04/14/25 01:23

Analyst: SLR

Extraction Method: EPA 3546
Extraction Date: 04/13/25 01:22

| Parameter | Result | Qualifier | Units | RL | | MDL |
|------------------------------------|-------------|-----------|-----------|-------|--------|-------------|
| Semivolatile Organics by GC/MS - V | Westborough | Lab for s | ample(s): | 01-03 | Batch: | WG2053067-1 |
| 4-Nitrophenol | ND | | ug/kg | 230 | | 67. |
| 2,4-Dinitrophenol | ND | | ug/kg | 790 | | 77. |
| 4,6-Dinitro-o-cresol | ND | | ug/kg | 430 | | 79. |
| Pentachlorophenol | ND | | ug/kg | 130 | | 36. |
| Phenol | ND | | ug/kg | 160 | | 25. |
| 2-Methylphenol | ND | | ug/kg | 160 | | 26. |
| 3-Methylphenol/4-Methylphenol | ND | | ug/kg | 240 | | 26. |
| 2,4,5-Trichlorophenol | ND | | ug/kg | 160 | | 32. |
| Benzoic Acid | ND | | ug/kg | 530 | | 170 |
| Benzyl Alcohol | ND | | ug/kg | 160 | | 50. |
| Carbazole | ND | | ug/kg | 160 | | 16. |
| 1,4-Dioxane | ND | | ug/kg | 25 | | 7.6 |

| Surrogate | %Recovery Qualif | Acceptance er Criteria |
|----------------------|------------------|---------------------------|
| 2-Fluorophenol | 75 | 25-120 |
| Phenol-d6 | 71 | 10-120 |
| Nitrobenzene-d5 | 71 | 23-120 |
| 2-Fluorobiphenyl | 66 | 30-120 |
| 2,4,6-Tribromophenol | 76 | 10-136 |
| 4-Terphenyl-d14 | 75 | 18-120 |

Project Number: Project Name: 251473 251473

Lab Number: L2522084

Report Date: 04/17/25

| Parameter | LCS %Recovery | Lı Qual %Re | LCSD %Recovery Q | %Recovery Qual Limits | RPD | Qual | RPD Limits |
|--|------------------|--------------------|---------------------|-----------------------|-----------------------|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 | orough Lab Ass | ociated sample(s): | 01-03 Batch: | WG; | 2053067-2 WG2053067-3 | | |
| Acenaphthene | 87 | | 70 | 31-137 | 22 | | 50 |
| 1,2,4-Trichlorobenzene | 78 | | 63 | 38-107 | 21 | | 50 |
| Hexachlorobenzene | 89 | | 69 | 40-140 | 25 | | 50 |
| Bis(2-chloroethyl)ether | 78 | | 62 | 40-140 | 23 | | 50 |
| 2-Chloronaphthalene | 80 | | 64 | 40-140 | 22 | | 50 |
| 1,2-Dichlorobenzene | 80 | | 67 | 40-140 | 18 | | 50 |
| 1,3-Dichlorobenzene | 80 | | 67 | 40-140 | 18 | | 50 |
| 1,4-Dichlorobenzene | 80 | | 66 | 28-104 | 19 | | 50 |
| 3,3'-Dichlorobenzidine | 76 | | 60 | 40-140 | 24 | | 50 |
| 2,4-Dinitrotoluene | 110 | | 86 | 40-132 | 24 | | 50 |
| 2,6-Dinitrotoluene | 96 | | 75 | 40-140 | 25 | | 50 |
| Fluoranthene | 88 | | 68 | 40-140 | 26 | | 50 |
| 4-Chlorophenyl phenyl ether | 83 | | 66 | 40-140 | 23 | | 50 |
| 4-Bromophenyl phenyl ether | 84 | | 65 | 40-140 | 26 | | 50 |
| Bis(2-chloroisopropyl)ether | 57 | | 46 | 40-140 | 21 | | 50 |
| Bis(2-chloroethoxy)methane | 81 | | 66 | 40-117 | 20 | | 50 |
| Hexachlorobutadiene | 75 | | 60 | 40-140 | 22 | | 50 |
| Hexachlorocyclopentadiene | 89 | | 71 | 40-140 | 23 | | 50 |
| Hexachloroethane | 84 | | 68 | 40-140 | 21 | | 50 |
| Isophorone | 81 | | 64 | 40-140 | 23 | | 50 |
| Naphthalene | 88 | | 71 | 40-140 | 21 | | 50 |
| Nitrobenzene | 83 | | 67 | 40-140 | 21 | | 50 |
| NDPA/DPA | 86 | | 68 | 36-157 | 23 | | 50 |
| | | | | | | | |



Project Number: Project Name: 251473 251473

LCS %Recovery Qual %Recovery **LCSD** Qual %Recovery Limits RPD Qual RPD Limits

| Semivolatile Organics by GCMMS - Westborough Lab Associated sample(s): 01-03 Batch: WG2053067-2 WG205306 | Parameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits |
|--|---------------------------------------|------------------|--------------|---------------|----------|--------------|-------------|------|--------|
| codi-n-propylamine 76 63 32.121 19 filylhexyl)phthalate 1126 93 40-140 28 propyl phthalate 110 83 40-140 28 pyphthalate 1106 82 40-140 28 pyphthalate 92 65 40-140 23 pyphthalate 92 67 40-140 23 pyphthalate 92 67 40-140 23 phthalate 92 66 40-140 23 phthalate 93 66 40-140 23 phthalate 93 68 40-140 23 phthalate 93 83 40-140 23 phthalate 94 70 40-140 23 phthalate 94 <th>Semivolatile Organics by GC/MS - West</th> <th>borough Lab Asso</th> <th>ociated samp</th> <th>ole(s): 01-03</th> <th>Batch: W</th> <th>32053067-2 V</th> <th>NG2053067-3</th> <th></th> <th></th> | Semivolatile Organics by GC/MS - West | borough Lab Asso | ociated samp | ole(s): 01-03 | Batch: W | 32053067-2 V | NG2053067-3 | | |
| hythexyt)phthalate 126 93 40-140 30 30 30 30 30 30 30 30 30 30 30 30 30 | n-Nitrosodi-n-propylamine | 76 | | 63 | | 32-121 | 19 | | 50 |
| snzyl phthalate 110 83 40-140 28 tylphthalate 106 82 40-140 28 tylphthalate 124 89 40-140 26 tylphthalate 92 73 40-140 23 uphthalate 92 67 40-140 23 phthylanenene 92 67 40-140 23 phtylenenenene 90 66 40-140 23 phtylenenenenenenenenenenenenenenenenenenen | Bis(2-ethylhexyl)phthalate | 126 | | 93 | | 40-140 | 30 | | 50 |
| tylphthalate 106 82 40-140 26 tylphthalate 124 89 40-140 33 phthalate 92 73 40-140 23 phthalate 92 65 40-140 23 phthalate 92 67 40-140 23 phthalate 92 67 40-140 23 phthalate 92 67 40-140 23 phthalate 92 66 40-140 23 phthalate 90 66 40-140 23 phthalate 91 66 40-140 23 phthalate 92 72 40-140 23 phthalate 93 72 40-140 23 phthalate 97 72 40-140 23 phthalate 97 72 40-140 23 phthalate 90 69 40-140 23 phthalate 91 69 <t< td=""><td>Butyl benzyl phthalate</td><td>110</td><td></td><td>83</td><td></td><td>40-140</td><td>28</td><td></td><td>50</td></t<> | Butyl benzyl phthalate | 110 | | 83 | | 40-140 | 28 | | 50 |
| hylphthalate 124 89 40-140 33 phthalate 92 73 40-140 23 phthalate 82 65 40-140 23 phthalate 92 67 40-140 23 a)anthracene 92 67 40-140 23 a)apyrene 104 78 40-140 29 phthalate 90 66 40-140 29 phthalate 90 68 40-140 29 phthalate 93 69 40-140 29 phthalate 93 69 40-140 29 phthalate 93 72 40-140 28 phthalate 97 72 40-140 29 phthyloranthene 93 70 40-140 29 phthyloranthracene 97 72 40-140 23 phthyloranthracene 90 69 40-140 26 phthyloranthracene 91 <td>Di-n-butylphthalate</td> <td>106</td> <td></td> <td>82</td> <td></td> <td>40-140</td> <td>26</td> <td></td> <td>50</td> | Di-n-butylphthalate | 106 | | 82 | | 40-140 | 26 | | 50 |
| phthalate 92 73 40-140 23 yl phthalate 82 65 40-140 23 a)anthracene 92 67 40-140 23 a)aphrene 104 78 40-140 23 a)plyrene 104 78 40-140 23 a)plyrene 106 80 40-140 29 ylluoranthene 93 63 40-140 28 ne 93 63 40-140 28 phthylene 94 70 40-140 29 en 97 72 40-140 29 philperylene 90 69 40-140 23 e 90 69 40-140 23 philperylene 90 69 | Di-n-octylphthalate | 124 | | 89 | | 40-140 | 33 | | 50 |
| yl phthalate 82 65 40-140 23 a)anthracene 92 67 40-140 31 a)apthracene 92 67 40-140 31 a)pyrene 104 78 40-140 29 p)fluoranthene 90 66 40-140 31 ylluoranthene 93 69 40-140 28 phhylene 93 71 40-140 29 pene 94 72 40-140 29 pene 97 72 40-140 29 philperylene 99 69 40-140 23 philperylene 99 69 40-140 23 polahjanthracene 90 69 40-140 23 polahjanthracene 91 69 40-140 28 polahjanthracene 93 69 40-140 28 polahjanthracene 93 69 40-140 28 polahjanthracene <t< td=""><td>Diethyl phthalate</td><td>92</td><td></td><td>73</td><td></td><td>40-140</td><td>23</td><td></td><td>50</td></t<> | Diethyl phthalate | 92 | | 73 | | 40-140 | 23 | | 50 |
| a)anthriacene 92 67 40-140 31 a)pyrene 104 78 40-140 29 a)pyrene 90 66 40-140 29 y)fluoranthene 90 66 40-140 31 re 93 69 40-140 28 re 94 70 40-140 29 rene 97 72 40-140 29 philperylene 97 72 40-140 23 ge 90 67 40-140 23 philperylene 90 66 40-140 23 philperylene 90 67 40-140 23 philperylene 90 67 40-140 23 philperylene 90 67 40-140 23 philperylene 90 69 40-140 23 philperylene 91 69 40-140 23 philperylene 93 69 40-140 23 philperylene 91 69 40-140 23 philperylene 91 69 40-140 23 philperylene 92 69 40-140 23 | Dimethyl phthalate | 82 | | 65 | | 40-140 | 23 | | 50 |
| a)pyrene 104 78 40-140 29 p)fluoranthene 90 66 40-140 31 v)fluoranthene 106 80 40-140 28 v)fluoranthene 93 69 40-140 28 ne 93 69 40-140 24 ene 97 72 40-140 29 en 88 70 40-140 23 e 90 69 40-140 23 v(a,h)anthracene 90 67 40-140 26 v(a,h)anthracene 91 69 40-140 29 v(a,h)anthracene 91 69 40-140 28 v(a,h)anthracene 91 69 40-140 29 v(a,h)anthracene 91 69 3 | Benzo(a)anthracene | 92 | | 67 | | 40-140 | 31 | | 50 |
| O)fluoranthene 90 66 40-140 31 A)fluoranthene 106 80 40-140 28 ne 93 69 40-140 28 nthrylene 90 71 40-140 24 ene 97 72 40-140 29 e 98 70 40-140 23 e 90 69 40-140 23 ithrene 90 67 40-140 26 (1,2,3-cd)pyrene 91 69 40-140 29 (1,2,3-cd)pyrene 88 69 40-140 28 (1,2,3-cd)pyrene 88 69 40-140 28 (1,2,3-cd)pyrene 85 66 35-142 26 (2,3-cd)pyrene 85 69 40-140 22 (3,4-cd)pyrene 85 69 40-140 22 (4,1-2,3-cd)pyrene 85 69 40-140 22 (4,1-2,3-cd)pyrene 85 | Benzo(a)pyrene | 104 | | 78 | | 40-140 | 29 | | 50 |
| Aylituoranthene 106 80 40-140 28 ne 93 69 40-140 30 hthylene 90 71 40-140 24 ene 94 70 40-140 29 ge 88 70 40-140 23 ithrene 90 69 40-140 26 ithrene 90 67 40-140 26 1,2,3-cd)pyrene 91 69 40-140 29 1,2,3-cd)pyrene 86 66 35-142 26 M 88 69 37-127 21 M 72 58 40-140 22 M 89 47-134 22 | Benzo(b)fluoranthene | 90 | | 66 | | 40-140 | 31 | | 50 |
| ne 93 69 40-140 30 hthylene 90 71 40-140 24 sene 94 70 40-140 29 ghi)perylene 97 72 40-140 30 ithrene 90 69 40-140 23 pin perylene 91 69 40-140 26 pin perylene 91 69 40-140 29 pin perylene 91 69 40-140 29 pin perylene 91 69 35-142 26 pin perylene 85 69 <td>Benzo(k)fluoranthene</td> <td>106</td> <td></td> <td>80</td> <td></td> <td>40-140</td> <td>28</td> <td></td> <td>50</td> | Benzo(k)fluoranthene | 106 | | 80 | | 40-140 | 28 | | 50 |
| hthylene 90 71 40-140 24 sene 94 70 40-140 29 ghi)perylene 97 72 40-140 30 e 88 70 40-140 23 pthrene 90 69 40-140 26 p(1,2,3-cd)pyrene 91 69 40-140 29 p(1,2,3-cd)pyrene 86 69 40-140 28 p(1,2,3-cd)pyrene 86 35-142 26 p(1,2,3-cd)pyrene 85 69 37-127 21 p(1,2,3-cd)pyrene 85 69 37-127 21 p(1,2,3-cd)pyrene 85 69 37-127 21 p(1,2,3-cd)pyrene 85 40-140 22 p(2,2,3-cd)pyrene 85 40-140 22 p(3,2,3-cd)pyrene 85 40-140 22 | Chrysene | 93 | | 69 | | 40-140 | 30 | | 50 |
| seine 94 70 40-140 29 ghi)perylene 97 72 40-140 30 le 88 70 40-140 23 le rithrene 90 69 40-140 26 (1,2,3-cd)pyrene 91 69 40-140 29 (1,2,3-cd)pyrene 96 40-140 28 (3,4-142) 28 35-142 26 (4,1-140) 28 37-127 21 (5,8) 40-140 22 (5,8) 40-140 22 | Acenaphthylene | 90 | | 71 | | 40-140 | 24 | | 50 |
| ghi)perylene 97 72 40-140 30 le 88 70 40-140 23 pthrene 90 69 40-140 26 p(1,2,3-cd)pyrene 91 69 40-140 29 p(1,2,3-cd)pyrene 86 35-142 28 p(1) 85 66 37-127 21 poaniline 72 58 40-140 22 aniline 89 47-134 22 | Anthracene | 94 | | 70 | | 40-140 | 29 | | 50 |
| e 88 70 40-140 23 ithrene 90 69 40-140 26 (1,2,3-cd)pyrene 91 69 40-140 29 (1,2,3-cd)pyrene 86 66 35-142 26 (1) 85 69 37-127 21 (1) 72 58 40-140 22 (2) 47-134 22 | Benzo(ghi)perylene | 97 | | 72 | | 40-140 | 30 | | 50 |
| Inthrene 90 69 40-140 26 5(a,h)anthracene 90 67 40-140 29 (1,2,3-cd)pyrene 91 69 40-140 28 (1) 86 66 35-142 26 (1) 85 69 37-127 21 (2) 58 40-140 22 (3) 89 47-134 22 | Fluorene | 88 | | 70 | | 40-140 | 23 | | 50 |
| 5(a,h)anthracene 90 67 40-140 29 (1,2,3-cd)pyrene 91 69 40-140 28 71 86 66 35-142 26 71 85 69 37-127 21 9aniline 72 58 40-140 22 111 89 47-134 22 | Phenanthrene | 90 | | 69 | | 40-140 | 26 | | 50 |
| (1,2,3-cd)pyrene 91 69 40-140 28 86 66 35-142 26 1 85 69 37-127 21 9 72 58 40-140 22 9 47-134 22 | Dibenzo(a,h)anthracene | 90 | | 67 | | 40-140 | 29 | | 50 |
| 86 66 35-142 26 1 85 69 37-127 21 0aniline 72 58 40-140 22 aniline 111 89 47-134 22 | Indeno(1,2,3-cd)pyrene | 91 | | 69 | | 40-140 | 28 | | 50 |
| 85 69 37-127 21 72 58 40-140 22 111 89 47-134 22 | Pyrene | 86 | | 66 | | 35-142 | 26 | | 50 |
| 72 58 40-140 22 111 89 47-134 22 | Biphenyl | 85 | | 69 | | 37-127 | 21 | | 50 |
| 111 89 47-134 22 | 4-Chloroaniline | 72 | | 58 | | 40-140 | 22 | | 50 |
| | 2-Nitroaniline | 111 | | 89 | | 47-134 | 22 | | 50 |



Report Date: Lab Number:

04/17/25 L2522084

Project Number: Project Name: 251473

251473

LCS %Recovery Qual %Recovery **LCSD** Qual %Recovery Limits RPD Qual RPD Limits

| Parameter | %Recovery G | Qual %Recovery | ' Qual | Limits | RPD | Qual | Limits |
|--|-----------------------|-----------------------|--------|-----------|--------------------------------|------|--------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 | stborough Lab Associa | ated sample(s): 01-03 | | 2053067-2 | Batch: WG2053067-2 WG2053067-3 | | |
| 3-Nitroaniline | 90 | 74 | | 26-129 | 20 | | 50 |
| 4-Nitroaniline | 107 | 83 | | 41-125 | 25 | | 50 |
| Dibenzofuran | 85 | 68 | | 40-140 | 22 | | 50 |
| 2-Methylnaphthalene | 81 | 64 | | 40-140 | 23 | | 50 |
| 1,2,4,5-Tetrachlorobenzene | 76 | 61 | | 40-117 | 22 | | 50 |
| Acetophenone | 88 | 71 | | 14-144 | 21 | | 50 |
| 2,4,6-Trichlorophenol | 87 | 69 | | 30-130 | 23 | | 50 |
| p-Chloro-m-cresol | 98 | 78 | | 26-103 | 23 | | 50 |
| 2-Chlorophenol | 94 | 76 | | 25-102 | 21 | | 50 |
| 2,4-Dichlorophenol | 90 | 71 | | 30-130 | 24 | | 50 |
| 2,4-Dimethylphenol | 101 | 82 | | 30-130 | 21 | | 50 |
| 2-Nitrophenol | 113 | 91 | | 30-130 | 22 | | 50 |
| 4-Nitrophenol | 103 | 78 | | 11-114 | 28 | | 50 |
| 2,4-Dinitrophenol | 106 | 82 | | 4-130 | 26 | | 50 |
| 4,6-Dinitro-o-cresol | 121 | 94 | | 10-130 | 25 | | 50 |
| Pentachlorophenol | 80 | 66 | | 17-109 | 19 | | 50 |
| Phenol | 86 | 68 | | 26-90 | 23 | | 50 |
| 2-Methylphenol | 94 | 74 | | 30-130. | 24 | | 50 |
| 3-Methylphenol/4-Methylphenol | 99 | 78 | | 30-130 | 24 | | 50 |
| 2,4,5-Trichlorophenol | 88 | 70 | | 30-130 | 23 | | 50 |
| Benzoic Acid | 58 | 41 | | 10-110 | 34 | | 50 |
| Benzyl Alcohol | 88 | 71 | | 40-140 | 21 | | 50 |
| Carbazole | 97 | 73 | | 54-128 | 28 | | 50 |
| | | | | | | | 7 |



Report Date: Lab Number:

04/17/25 L2522084

Project Number: Project Name: 251473 251473 Report Date: Lab Number:

| Parameter | LCS %Recovery Qual | | LCSD %Recovery Qual | Qual | %Recovery Limits | RPD | Qual | RPD Limits | 1 |
|--|-----------------------|-----------------|------------------------|-------------|---------------------|----------------------|------|---------------|---|
| Somition of the Month | | | (2). 04 03 | D 0 + 0 h . | WC20E20E7 2 | MC20E20E2 2 | | | |
| Semivolatile Organics by GC/MS - westborough Lab Associated sample(s): 01-03 Batch: WG20 | brough Lab Ass | sociated sample | (s): U1-U3 | Batch: | WG2053067-2 | 53067-2 VVG2053067-3 | | | |
| 1,4-Dioxane | 62 | | 52 | | 40-140 | 18 | | 50 | |

| Surrogate | LCS %Recovery | CS LCSD Recovery Recovery | Qual | Acceptance Criteria |
|----------------------|------------------|---------------------------|------|------------------------|
| 2-Fluorophenol | 94 | 75 | | 25-120 |
| Phenol-d6 | 88 | 69 | | 10-120 |
| Nitrobenzene-d5 | 91 | 71 | | 23-120 |
| 2-Fluorobiphenyl | 79 | 62 | | 30-120 |
| 2,4,6-Tribromophenol | 99 | 77 | | 10-136 |
| 4-Terphenyl-d14 | 87 | 65 | | 18-120 |



L2522084 04/17/25

PCBS

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-01 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #3 251473-01 Date Received: 04/10/25
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 04/13/25 00:05
Analytical Date: 04/13/25 12:28 Cleanup Method: EPA 3665A

Analyst: MEO Cleanup Date: 04/13/25
Percent Solids: 90% Cleanup Method: EPA 3660B

cent Solids: 90% Cleanup Method: EPA 3000 Cleanup Date: 04/13/25

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------------------------------|-----------------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - | Westborough Lab | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 53.8 | 4.78 | 1 | Α |
| Aroclor 1221 | ND | | ug/kg | 53.8 | 5.39 | 1 | Α |
| Aroclor 1232 | ND | | ug/kg | 53.8 | 11.4 | 1 | Α |
| Aroclor 1242 | ND | | ug/kg | 53.8 | 7.26 | 1 | Α |
| Aroclor 1248 | ND | | ug/kg | 53.8 | 8.07 | 1 | Α |
| Aroclor 1254 | ND | | ug/kg | 53.8 | 5.89 | 1 | Α |
| Aroclor 1260 | ND | | ug/kg | 53.8 | 9.95 | 1 | Α |
| Aroclor 1262 | ND | | ug/kg | 53.8 | 6.84 | 1 | Α |
| Aroclor 1268 | ND | | ug/kg | 53.8 | 5.58 | 1 | Α |
| PCBs, Total | ND | | ug/kg | 53.8 | 4.78 | 1 | Α |

| Cumanata | a. B | 0 "" | Acceptance | |
|------------------------------|------------|-----------|------------|--------|
| Surrogate | % Recovery | Qualifier | Criteria | Column |
| 2,4,5,6-Tetrachloro-m-xylene | 59 | | 30-150 | Α |
| Decachlorobiphenyl | 82 | | 30-150 | Α |
| 2,4,5,6-Tetrachloro-m-xylene | 60 | | 30-150 | В |
| Decachlorobiphenyl | 94 | | 30-150 | В |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-02 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #4 251473-02 Date Received: 04/10/25 Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 04/13/25 00:05

Analytical Date: 04/13/25 12:35 Cleanup Method: EPA 3665A
Analyst: MEO Cleanup Date: 04/13/25
Percent Solids: 89% Cleanup Method: EPA 3660B

Percent Solids: 89% Cleanup Method: EPA 3660 Cleanup Date: 04/13/25

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|--------------------------------------|----------------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - We | estborough Lab | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 53.7 | 4.77 | 1 | Α |
| Aroclor 1221 | ND | | ug/kg | 53.7 | 5.38 | 1 | Α |
| Aroclor 1232 | ND | | ug/kg | 53.7 | 11.4 | 1 | Α |
| Aroclor 1242 | ND | | ug/kg | 53.7 | 7.24 | 1 | Α |
| Aroclor 1248 | ND | | ug/kg | 53.7 | 8.05 | 1 | Α |
| Aroclor 1254 | ND | | ug/kg | 53.7 | 5.87 | 1 | Α |
| Aroclor 1260 | ND | | ug/kg | 53.7 | 9.92 | 1 | Α |
| Aroclor 1262 | ND | | ug/kg | 53.7 | 6.82 | 1 | Α |
| Aroclor 1268 | ND | | ug/kg | 53.7 | 5.56 | 1 | Α |
| PCBs, Total | ND | | ug/kg | 53.7 | 4.77 | 1 | Α |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 61 | | 30-150 | Α |
| Decachlorobiphenyl | 86 | | 30-150 | Α |
| 2,4,5,6-Tetrachloro-m-xylene | 64 | | 30-150 | В |
| Decachlorobiphenyl | 103 | | 30-150 | В |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-03 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #5 251473-03 Date Received: 04/10/25
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 04/13/25 00:05

Analytical Date: 04/13/25 12:43 Cleanup Method: EPA 3665A
Analyst: MEO Cleanup Date: 04/13/25

Percent Solids: 87% Cleanup Method: EPA 3660B Cleanup Date: 04/13/25

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------|--------------|-----------|-------|------|------|------------------------|--------|
| Polychlorinated Biphenyls by GC - Wes | tborough Lab | | | | | | |
| Aroclor 1016 | ND | | ug/kg | 56.7 | 5.03 | 1 | Α |
| Aroclor 1221 | ND | | ug/kg | 56.7 | 5.68 | 1 | Α |
| Aroclor 1232 | ND | | ug/kg | 56.7 | 12.0 | 1 | Α |
| Aroclor 1242 | ND | | ug/kg | 56.7 | 7.64 | 1 | Α |
| Aroclor 1248 | ND | | ug/kg | 56.7 | 8.50 | 1 | Α |
| Aroclor 1254 | ND | | ug/kg | 56.7 | 6.20 | 1 | Α |
| Aroclor 1260 | ND | | ug/kg | 56.7 | 10.5 | 1 | Α |
| Aroclor 1262 | ND | | ug/kg | 56.7 | 7.20 | 1 | Α |
| Aroclor 1268 | ND | | ug/kg | 56.7 | 5.87 | 1 | Α |
| PCBs, Total | ND | | ug/kg | 56.7 | 5.03 | 1 | Α |

| O | a. = | Acceptance | | | | |
|------------------------------|------------|------------|----------|--------|--|--|
| Surrogate | % Recovery | Qualifier | Criteria | Column | | |
| 2,4,5,6-Tetrachloro-m-xylene | 62 | | 30-150 | Α | | |
| Decachlorobiphenyl | 87 | | 30-150 | Α | | |
| 2,4,5,6-Tetrachloro-m-xylene | 65 | | 30-150 | В | | |
| Decachlorobiphenyl | 101 | | 30-150 | В | | |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 04/13/25 11:50

Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 04/13/25 00:05
Cleanup Method: EPA 3665A
Cleanup Date: 04/13/25
Cleanup Method: EPA 3660B
Cleanup Date: 04/13/25

| Parameter | Result | Qualifier | Units | RL | | MDL | Column |
|-----------------------------------|-------------|------------|-----------|-------|--------|------|---------|
| Polychlorinated Biphenyls by GC - | Westborough | Lab for sa | ample(s): | 01-03 | Batch: | WG20 | 53064-1 |
| Aroclor 1016 | ND | | ug/kg | 48.0 | | 4.26 | Α |
| Aroclor 1221 | ND | | ug/kg | 48.0 | | 4.81 | Α |
| Aroclor 1232 | ND | | ug/kg | 48.0 | | 10.2 | Α |
| Aroclor 1242 | ND | | ug/kg | 48.0 | | 6.47 | Α |
| Aroclor 1248 | ND | | ug/kg | 48.0 | | 7.20 | Α |
| Aroclor 1254 | ND | | ug/kg | 48.0 | | 5.25 | Α |
| Aroclor 1260 | ND | | ug/kg | 48.0 | | 8.88 | Α |
| Aroclor 1262 | ND | | ug/kg | 48.0 | | 6.10 | Α |
| Aroclor 1268 | ND | | ug/kg | 48.0 | | 4.98 | Α |
| PCBs, Total | ND | | ug/kg | 48.0 | | 4.26 | Α |

| | Acceptance | | | | | |
|---------------------------------|---------------------|----------|--------|--|--|--|
| Surrogate | %Recovery Qualifier | Criteria | Column | | | |
| O A S O Tytes abbase are seeded | 04 | 00.450 | | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 81 | 30-150 | Α | | | |
| Decachlorobiphenyl | 124 | 30-150 | Α | | | |
| 2,4,5,6-Tetrachloro-m-xylene | 81 | 30-150 | В | | | |
| Decachlorobiphenyl | 129 | 30-150 | В | | | |

Lab Number:

L2522084 04/17/25

251473

Project Name:

Project Number: 251473 Report Date:

| | LCS | | LCSD | | %Recovery | ` | | RPD | |
|--|----------------|--------------|---------------|--------|-------------|-----------------------|------|------------------------|--------|
| Parameter | %Recovery Qual | Qual | %Recovery | ' Qual | | | Qual | RPD Qual Limits Column | Column |
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG2 | orough Lab Ass | ociated samp | ble(s): 01-03 | Batch: | WG2053064-2 | .053064-2 WG2053064-3 | | | |
| Aroclor 1016 | 114 | | 115 | | 40-140 | _ | | 50 | Þ |
| Aroclor 1260 | 111 | | 113 | | 40-140 | 2 | | 50 | A |

| Decachlorobiphenyl | 2,4,5,6-Tetrachloro-n | Decachlorobiphenyl | 2,4,5,6-Tetrachloro-m-xylene | Surrogate | lor 1260 | lor 1016 |
|--------------------|-----------------------|--------------------|------------------------------|--|----------|----------|
| | n-xylene | | n-xylene | | 111 | 114 |
| | 8 | 1 | 8 | // // // // // // // // // // // // // | 113 | 115 |
| 2 | 82 | 127 | 82 | LCS %Recovery Qual | 40-140 | 40-140 |
| 3 | 84 | 130 | 84 | LCSD %Recovery Qual | 2 | _ |
| | | | | Qual | | |
| 30 150 | 30-150 | 30-150 | 30-150 | Acceptance Criteria | 50 | 50 |
| æ | ₩ | ≻ | ⊳ | Column | ➤ | Þ |



PESTICIDES

Project Name: Lab Number: 251473 L2522084

Project Number: 251473 **Report Date:** 04/17/25

SAMPLE RESULTS

Lab ID: Date Collected: 04/10/25 14:02 L2522084-01

Date Received: Client ID: SOIL PILE #3 251473-01 04/10/25

Sample Location: Field Prep: Not Specified Not Specified

Sample Depth:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 04/13/25 02:49 1,8081B Analytical Method:

Cleanup Method: EPA 3620B Analytical Date: 04/14/25 10:22 Cleanup Date: 04/13/25 Analyst: **JAG**

Cleanup Method: EPA 3660B 90% Percent Solids: Cleanup Date: 04/13/25

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|------------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westh | orough Lab | | | | | | |
| Delta-BHC | ND | | ug/kg | 1.70 | 0.332 | 1 | Α |
| Lindane | ND | | | | | <u>'</u> 1 | |
| | | | ug/kg | 0.706 | 0.316 | • | Α |
| Alpha-BHC | ND | | ug/kg | 0.706 | 0.200 | 1 | Α |
| Beta-BHC | ND | | ug/kg | 1.70 | 0.643 | 1 | Α |
| Heptachlor | ND | | ug/kg | 0.848 | 0.380 | 1 | Α |
| Aldrin | ND | | ug/kg | 1.70 | 0.597 | 1 | Α |
| Heptachlor epoxide | ND | | ug/kg | 3.18 | 0.953 | 1 | Α |
| Endrin | ND | | ug/kg | 0.706 | 0.290 | 1 | Α |
| Endrin aldehyde | ND | | ug/kg | 2.12 | 0.742 | 1 | Α |
| Endrin ketone | ND | | ug/kg | 1.70 | 0.436 | 1 | Α |
| Dieldrin | ND | | ug/kg | 1.06 | 0.530 | 1 | Α |
| 4,4'-DDE | 1.77 | | ug/kg | 1.70 | 0.392 | 1 | В |
| 4,4'-DDD | ND | | ug/kg | 1.70 | 0.604 | 1 | Α |
| 4,4'-DDT | ND | | ug/kg | 1.70 | 1.36 | 1 | Α |
| Endosulfan I | ND | | ug/kg | 1.70 | 0.400 | 1 | Α |
| Endosulfan II | ND | | ug/kg | 1.70 | 0.566 | 1 | Α |
| Endosulfan sulfate | ND | | ug/kg | 0.706 | 0.336 | 1 | Α |
| Methoxychlor | ND | | ug/kg | 3.18 | 0.989 | 1 | Α |
| Toxaphene | ND | | ug/kg | 31.8 | 8.90 | 1 | Α |
| cis-Chlordane | 0.624 | J | ug/kg | 2.12 | 0.590 | 1 | В |
| trans-Chlordane | 0.660 | J | ug/kg | 2.12 | 0.559 | 1 | В |
| Chlordane | ND | | ug/kg | 14.1 | 5.61 | 1 | Α |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-01 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #3 251473-01 Date Received: 04/10/25 Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter Result Qualifier Units RL MDL Dilution Factor Column

Organochlorine Pesticides by GC - Westborough Lab

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 52 | | 30-150 | Α |
| Decachlorobiphenyl | 51 | | 30-150 | Α |
| 2,4,5,6-Tetrachloro-m-xylene | 82 | | 30-150 | В |
| Decachlorobiphenyl | 74 | | 30-150 | В |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-01 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #3 251473-01 Date Received: 04/10/25
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 8151A
Analytical Method: 1,8151A Extraction Date: 04/15/25 09:00

Analytical Date: 04/16/25 22:02

Analyst: DLP Percent Solids: 90%

Methylation Date: 04/16/25 17:21

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|--------------------------------|-----------------|-----------|-------|-----|------|-----------------|--------|
| Chlorinated Herbicides by GC - | Westborough Lab | | | | | | |
| 2,4-D | ND | | ug/kg | 520 | 32.7 | 1 | Α |
| 2,4,5-T | ND | | ug/kg | 520 | 16.1 | 1 | Α |
| 2,4,5-TP (Silvex) | ND | | ug/kg | 520 | 13.8 | 1 | Α |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|------------------------|--------|
| DCAA | 70 | | 30-150 | Α |
| DCAA | 69 | | 30-150 | В |

Extraction Method: EPA 3546

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-02 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #4 251473-02 Date Received: 04/10/25
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8081B Extraction Date: 04/13/25 02:49
Analytical Date: 04/14/25 10:33 Extraction Date: 04/13/25 02:49

Analyst: JAG Cleanup Date: 04/13/25
Percent Solids: 89% Cleanup Method: EPA 3660B

ercent Solids: 89% Cleanup Method: EPA 3000 Cleanup Date: 04/13/25

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-------------------------------------|-----------------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - \ | Vestborough Lab | | | | | | |
| Delta-BHC | ND | | ug/kg | 1.70 | 0.334 | 1 | Α |
| Lindane | ND | | ug/kg | 0.710 | 0.317 | 1 | A |
| Alpha-BHC | ND | | ug/kg | 0.710 | 0.202 | 1 | Α |
| Beta-BHC | ND | | ug/kg | 1.70 | 0.646 | 1 | Α |
| Heptachlor | ND | | ug/kg | 0.852 | 0.382 | 1 | Α |
| Aldrin | ND | | ug/kg | 1.70 | 0.600 | 1 | Α |
| Heptachlor epoxide | ND | | ug/kg | 3.19 | 0.958 | 1 | Α |
| Endrin | ND | | ug/kg | 0.710 | 0.291 | 1 | Α |
| Endrin aldehyde | ND | | ug/kg | 2.13 | 0.745 | 1 | Α |
| Endrin ketone | ND | | ug/kg | 1.70 | 0.439 | 1 | Α |
| Dieldrin | ND | | ug/kg | 1.06 | 0.532 | 1 | Α |
| 4,4'-DDE | 1.89 | | ug/kg | 1.70 | 0.394 | 1 | В |
| 4,4'-DDD | ND | | ug/kg | 1.70 | 0.608 | 1 | Α |
| 4,4'-DDT | ND | | ug/kg | 1.70 | 1.37 | 1 | Α |
| Endosulfan I | ND | | ug/kg | 1.70 | 0.402 | 1 | Α |
| Endosulfan II | ND | | ug/kg | 1.70 | 0.569 | 1 | Α |
| Endosulfan sulfate | ND | | ug/kg | 0.710 | 0.338 | 1 | Α |
| Methoxychlor | ND | | ug/kg | 3.19 | 0.994 | 1 | Α |
| Toxaphene | ND | | ug/kg | 31.9 | 8.94 | 1 | Α |
| cis-Chlordane | 0.623 | J | ug/kg | 2.13 | 0.593 | 1 | В |
| trans-Chlordane | 0.600 | J | ug/kg | 2.13 | 0.562 | 1 | В |
| Chlordane | ND | | ug/kg | 14.2 | 5.64 | 1 | Α |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-02 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #4 251473-02 Date Received: 04/10/25 Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter Result Qualifier Units RL MDL Dilution Factor Column

Organochlorine Pesticides by GC - Westborough Lab

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 54 | | 30-150 | Α |
| Decachlorobiphenyl | 52 | | 30-150 | Α |
| 2,4,5,6-Tetrachloro-m-xylene | 85 | | 30-150 | В |
| Decachlorobiphenyl | 77 | | 30-150 | В |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-02 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #4 251473-02 Date Received: 04/10/25
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 8151A

Analytical Method: 1 8151A Extraction Date: 04/15/25 09:0

Analytical Method: 1,8151A Extraction Date: 04/15/25 09:00
Analytical Date: 04/16/25 22:39

Analyst: DLP Percent Solids: 89%

Methylation Date: 04/16/25 17:21

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column | |
|--|--------|-----------|-------|-----|------|-----------------|--------|--|
| Chlorinated Herbicides by GC - Westborough Lab | | | | | | | | |
| 2,4-D | ND | | ug/kg | 519 | 32.7 | 1 | Α | |
| 2,4,5-T | ND | | ug/kg | 519 | 16.1 | 1 | Α | |
| 2,4,5-TP (Silvex) | ND | | ug/kg | 519 | 13.8 | 1 | Α | |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|------------------------|--------|
| DCAA | 76 | | 30-150 | Α |
| DCAA | 72 | | 30-150 | В |

Project Name: Lab Number: 251473 L2522084

Project Number: 251473 **Report Date:** 04/17/25

SAMPLE RESULTS

Lab ID: Date Collected: 04/10/25 14:02 L2522084-03

Date Received: Client ID: SOIL PILE #5 251473-03 04/10/25

Sample Location: Field Prep: Not Specified Not Specified

Sample Depth:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 04/13/25 02:49 Analytical Method: 1,8081B

Cleanup Method: EPA 3620B Analytical Date: 04/14/25 10:44 Cleanup Date: 04/13/25 Analyst: **JAG**

Cleanup Method: EPA 3660B 87% Percent Solids: Cleanup Date: 04/13/25

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab | | | | | | | |
| Delta-BHC | ND | | ug/kg | 1.77 | 0.347 | 1 | Α |
| Lindane | ND | | ug/kg | 0.739 | 0.330 | 1 | Α |
| Alpha-BHC | ND | | ug/kg | 0.739 | 0.210 | 1 | Α |
| Beta-BHC | ND | | ug/kg | 1.77 | 0.673 | 1 | Α |
| Heptachlor | ND | | ug/kg | 0.887 | 0.398 | 1 | Α |
| Aldrin | ND | | ug/kg | 1.77 | 0.624 | 1 | Α |
| Heptachlor epoxide | ND | | ug/kg | 3.33 | 0.998 | 1 | Α |
| Endrin | ND | | ug/kg | 0.739 | 0.303 | 1 | Α |
| Endrin aldehyde | ND | | ug/kg | 2.22 | 0.776 | 1 | Α |
| Endrin ketone | ND | | ug/kg | 1.77 | 0.457 | 1 | Α |
| Dieldrin | ND | | ug/kg | 1.11 | 0.554 | 1 | Α |
| 4,4'-DDE | 1.76 | J | ug/kg | 1.77 | 0.410 | 1 | В |
| 4,4'-DDD | ND | | ug/kg | 1.77 | 0.633 | 1 | Α |
| 4,4'-DDT | ND | | ug/kg | 1.77 | 1.43 | 1 | Α |
| Endosulfan I | ND | | ug/kg | 1.77 | 0.419 | 1 | Α |
| Endosulfan II | ND | | ug/kg | 1.77 | 0.593 | 1 | Α |
| Endosulfan sulfate | ND | | ug/kg | 0.739 | 0.352 | 1 | Α |
| Methoxychlor | ND | | ug/kg | 3.33 | 1.03 | 1 | Α |
| Toxaphene | ND | | ug/kg | 33.3 | 9.31 | 1 | Α |
| cis-Chlordane | 0.622 | J | ug/kg | 2.22 | 0.618 | 1 | Α |
| trans-Chlordane | ND | | ug/kg | 2.22 | 0.585 | 1 | В |
| Chlordane | ND | | ug/kg | 14.8 | 5.88 | 1 | Α |

Project Name: Lab Number: 251473 L2522084

Report Date: **Project Number:** 251473 04/17/25

SAMPLE RESULTS

Lab ID: Date Collected: 04/10/25 14:02 L2522084-03

Date Received: Client ID: SOIL PILE #5 251473-03 04/10/25 Sample Location: Field Prep: Not Specified Not Specified

Sample Depth:

Qualifier RL MDL Parameter Result Units **Dilution Factor** Column

Organochlorine Pesticides by GC - Westborough Lab

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 56 | | 30-150 | Α |
| Decachlorobiphenyl | 46 | | 30-150 | Α |
| 2,4,5,6-Tetrachloro-m-xylene | 76 | | 30-150 | В |
| Decachlorobiphenyl | 63 | | 30-150 | В |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-03 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #5 251473-03 Date Received: 04/10/25
Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 8151A

Analytical Method: 1,8151A Extraction Date: 04/15/25 09:00
Analytical Date: 04/16/25 22:57

Analyst: DLP Percent Solids: 87%

Methylation Date: 04/16/25 17:21

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|--------------------------------------|------------|-----------|-------|-----|------|-----------------|--------|
| Chlorinated Herbicides by GC - Westk | orough Lab | | | | | | |
| 2,4-D | ND | | ug/kg | 187 | 11.8 | 1 | Α |
| 2,4,5-T | ND | | ug/kg | 187 | 5.81 | 1 | Α |
| 2,4,5-TP (Silvex) | ND | | ug/kg | 187 | 4.98 | 1 | Α |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|------------------------|--------|
| DCAA | 72 | | 30-150 | Α |
| DCAA | 67 | | 30-150 | В |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B Analytical Date: 04/14/25 08:35

Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 04/12/25 13:49
Cleanup Method: EPA 3620B
Cleanup Date: 04/13/25
Cleanup Method: EPA 3660B
Cleanup Date: 04/13/25

| Parameter | Result | Qualifier | Units | RL | | MDL | Column |
|---------------------------------|--------------|-----------|------------|-------|--------|-------|---------|
| Organochlorine Pesticides by GC | - Westboroug | h Lab for | sample(s): | 01-03 | Batch: | WG20 | 53011-1 |
| Delta-BHC | ND | | ug/kg | 1.55 | | 0.303 | Α |
| Lindane | ND | | ug/kg | 0.646 | | 0.288 | Α |
| Alpha-BHC | ND | | ug/kg | 0.646 | | 0.183 | Α |
| Beta-BHC | ND | | ug/kg | 1.55 | | 0.587 | Α |
| Heptachlor | ND | | ug/kg | 0.775 | | 0.347 | Α |
| Aldrin | ND | | ug/kg | 1.55 | | 0.546 | Α |
| Heptachlor epoxide | ND | | ug/kg | 2.90 | | 0.872 | Α |
| Endrin | ND | | ug/kg | 0.646 | | 0.265 | Α |
| Endrin aldehyde | ND | | ug/kg | 1.94 | | 0.678 | Α |
| Endrin ketone | ND | | ug/kg | 1.55 | | 0.399 | Α |
| Dieldrin | ND | | ug/kg | 0.968 | | 0.484 | Α |
| 4,4'-DDE | ND | | ug/kg | 1.55 | | 0.358 | Α |
| 4,4'-DDD | ND | | ug/kg | 1.55 | | 0.553 | Α |
| 4,4'-DDT | ND | | ug/kg | 1.55 | | 1.24 | Α |
| Endosulfan I | ND | | ug/kg | 1.55 | | 0.366 | Α |
| Endosulfan II | ND | | ug/kg | 1.55 | | 0.518 | Α |
| Endosulfan sulfate | ND | | ug/kg | 0.646 | | 0.307 | Α |
| Methoxychlor | ND | | ug/kg | 2.90 | | 0.904 | Α |
| Toxaphene | ND | | ug/kg | 29.0 | | 8.13 | Α |
| cis-Chlordane | ND | | ug/kg | 1.94 | | 0.540 | Α |
| trans-Chlordane | ND | | ug/kg | 1.94 | | 0.511 | Α |
| Chlordane | ND | | ug/kg | 12.9 | | 5.13 | Α |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B Analytical Date: 04/14/25 08:35

Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 04/12/25 13:49
Cleanup Method: EPA 3620B
Cleanup Date: 04/13/25
Cleanup Method: EPA 3660B
Cleanup Date: 04/13/25

ParameterResultQualifierUnitsRLMDLColumnOrganochlorine Pesticides by GC - Westborough Lab for sample(s):01-03Batch:WG2053011-1

| | | A | Acceptanc | e |
|------------------------------|-----------|-----------|-----------|--------|
| Surrogate | %Recovery | Qualifier | Criteria | Column |
| 2,4,5,6-Tetrachloro-m-xylene | 71 | | 30-150 | Α |
| Decachlorobiphenyl | 57 | | 30-150 | Α |
| 2,4,5,6-Tetrachloro-m-xylene | 86 | | 30-150 | В |
| Decachlorobiphenyl | 98 | | 30-150 | В |

Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8151A Analytical Date: 04/16/25 20:30

Analyst: JAG

Methylation Date: 04/16/25 17:21

Extraction Method: EPA 8151A Extraction Date: 04/15/25 09:00

| Parameter | Result | Qualifier | Units | I | RL | MDL | Column |
|------------------------------------|-------------|-------------|---------|-------|--------|-----------|--------|
| Chlorinated Herbicides by GC - Wes | stborough L | .ab for sam | ple(s): | 01-03 | Batch: | WG2053942 | -1 |
| 2,4-D | ND | | ug/kg | 1 | 65 | 10.4 | Α |
| 2,4,5-T | ND | | ug/kg | 1 | 65 | 5.12 | Α |
| 2,4,5-TP (Silvex) | ND | | ug/kg | 1 | 65 | 4.39 | Α |

| | | Acceptanc | e |
|-----------|---------------------|-----------|--------|
| Surrogate | %Recovery Qualifier | Criteria | Column |
| | | | |
| DCAA | 72 | 30-150 | Α |
| DCAA | 77 | 30-150 | В |

Project Number: Project Name:

251473 251473

| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG2053011-2 WG2053011-3 | Parameter |
|--|------------------------|
| - Westborough Lab Ass | LCS %Recovery Qual |
| sociated sa | Qual |
| mple(s): 01-03 | LCSD %Recovery |
| Batch: | Qual |
| WG2053011-2 | %Recovery |
| WG2053011-3 | RPD |
| | Qual |
| | RPD Qual Limits Column |
| | Column |

| arameter | %Recovery | Qual | %Recovery | Qual | Limits | RPD | Qual | Limits | Limits Column |
|---|----------------|---------------|--------------|--------|-------------|--------------------------------|------|--------|---------------|
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 | orough Lab Ass | sociated samp | le(s): 01-03 | Batch: | WG2053011-2 | Batch: WG2053011-2 WG2053011-3 | | | |
| Delta-BHC | 84 | | 85 | | 30-150 | _ | | 30 | ⊳ |
| Lindane | 92 | | 95 | | 30-150 | ω | | 30 | Þ |
| Alpha-BHC | 78 | | 80 | | 30-150 | ω | | 30 | Þ |
| Beta-BHC | 84 | | 87 | | 30-150 | 4 | | 30 | Þ |
| Heptachlor | 87 | | 90 | | 30-150 | ω | | 30 | А |
| Aldrin | 90 | | 94 | | 30-150 | 4 | | 30 | A |
| Heptachlor epoxide | 53 | | 54 | | 30-150 | 2 | | 30 | Α |
| Endrin | 87 | | 90 | | 30-150 | ω | | 30 | Þ |
| Endrin aldehyde | 60 | | 65 | | 30-150 | œ | | 30 | ➤ |
| Endrin ketone | 80 | | 84 | | 30-150 | Ŋ | | 30 | ➤ |
| Dieldrin | 90 | | 94 | | 30-150 | 4 | | 30 | Þ |
| 4,4'-DDE | 89 | | 91 | | 30-150 | 2 | | 30 | Þ |
| 4,4'-DDD | 93 | | 97 | | 30-150 | 4 | | 30 | Þ |
| 4,4'-DDT | 90 | | 94 | | 30-150 | 4 | | 30 | Þ |
| Endosulfan I | 83 | | 85 | | 30-150 | 2 | | 30 | Þ |
| Endosulfan II | 82 | | 86 | | 30-150 | Ŋ | | 30 | Þ |
| Endosulfan sulfate | 70 | | 73 | | 30-150 | 4 | | 30 | Þ |
| Methoxychlor | 79 | | 82 | | 30-150 | 4 | | 30 | Þ |
| cis-Chlordane | 76 | | 79 | | 30-150 | 4 | | 30 | Þ |
| trans-Chlordane | 88 | | 91 | | 30-150 | ω | | 30 | A |



Report Date: Lab Number:

04/17/25 L2522084

Lab Number:

L2522084

04/17/25

Project Number: 251473 Report Date: Project Name:

251473

| | LCS | | LCSD | | %Recovery | | | RPD | |
|--|-------------------|-------------|----------------|--------|-------------|-------------|------|--------|--|
| ^o arameter | %Recovery Qual | Qual | %Recovery Qual | Qual | Limits | RPD | Qual | Limits | |
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG2053011-2 WG2053011-3 | stborough Lab Ass | ociated sam | ole(s): 01-03 | Batch: | WG2053011-2 | WG2053011-3 | | | |
| | | | | | | | | | |

| 2,4,5,6-Tetrachloro-m-xylene Decachlorobiphenyl 2,4,5,6-Tetrachloro-m-xylene Decachlorobiphenyl | Surrogate | chlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG2053011-2 |
|---|------------------------|--|
| 67 56 81 76 | LCS %Recovery Qual | .03 Batch: WG |
| | Qual | 2053011 |
| 68 54 85 78 | LCSD %Recovery Qual | -2 WG2053011- |
| | Qual | 1-3 |
| 30-150 30-150 30-150 30-150 | Acceptance Criteria | |
| ∞∞>> | Column | |



Project Number: Project Name:

251473

Parameter

251473

Report Date: Lab Number:

L2522084

04/17/25

| LCS %Recovery Qual | |
|-----------------------|--|
| Qual | |
| LCSD %Recovery | |
| Qual | |
| %Recovery Limits | |
| RPD | |
| Qual | |
| RPD Limits | |
| Column | |
| | |

| | | 2,4,5-TP (Silvex) | 2,4,5-T | 2,4-D | Chlorinated Her |
|------------------|------------------------|-------------------|---------|--------|---|
| DCAA DCAA | Surrogate | 9X) | | | Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG2053942-2 WG2053942-3 |
| | | 77 | 73 | 71 | gh Lab Associ |
| | | | | | ated sample(s) |
| | | 84 | 81 | 79 | : 01-03 |
| 73 83 | LCS %Recovery | | | | Batch: WG2 |
| | ' Qual | 30-150 | 30-150 | 30-150 | 053942-2 |
| 89 | LCSD %Recovery Qual | | | | WG205394 |
| | ry Qual | 9 | 10 | 11 | 2-3 |
| 30-150 30-150 | Acceptance Criteria | 30 | 30 | 30 | |
| B≯ | Column | Þ | Þ | Þ | |



INORGANICS & MISCELLANEOUS

Project Name: Lab Number: 251473 L2522084 Project Number: 251473

Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: Date Collected: L2522084-01 04/10/25 14:02

Client ID: Date Received: SOIL PILE #3 251473-01 04/10/25 Not Specified Sample Location: Not Specified Field Prep:

Sample Depth:

Matrix: Soil

| Parameter | Result C | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - W | /estborough Lab | | | | | | | | | |
| Solids, Total | 89.5 | | % | 0.100 | NA | 1 | - | 04/11/25 11:33 | 121,2540G | ROI |
| Cyanide, Reactive | ND | | mg/kg | 10 | 10. | 1 | 04/15/25 18:15 | 04/15/25 20:02 | 125,7.3 | TLH |
| Sulfide, Reactive | ND | | mg/kg | 10 | 10. | 1 | 04/15/25 18:15 | 04/15/25 19:55 | 125,7.3 | TLH |



Project Name: 251473

Lab Number: L2522084

Project Number: 251473

Report Date: 24/47/05

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-02 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #4 251473-02 Date Received: 04/10/25 Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Parameter | Result C | Qualifier (| Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|----------------|-------------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - W | estborough Lab | | | | | | | | | |
| Solids, Total | 89.4 | | % | 0.100 | NA | 1 | - | 04/11/25 11:33 | 121,2540G | ROI |
| Cyanide, Reactive | ND | r | ng/kg | 10 | 10. | 1 | 04/15/25 18:15 | 04/15/25 20:02 | 125,7.3 | TLH |
| Sulfide, Reactive | ND | r | ng/kg | 10 | 10. | 1 | 04/15/25 18:15 | 04/15/25 19:55 | 125,7.3 | TLH |



Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

SAMPLE RESULTS

Lab ID: L2522084-03 Date Collected: 04/10/25 14:02

Client ID: SOIL PILE #5 251473-03 Date Received: 04/10/25 Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|-----------------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - W | Vestborough Lab | | | | | | | | | |
| Solids, Total | 87.4 | | % | 0.100 | NA | 1 | - | 04/11/25 11:33 | 121,2540G | ROI |
| Cyanide, Reactive | ND | | mg/kg | 10 | 10. | 1 | 04/15/25 18:15 | 04/15/25 20:02 | 125,7.3 | TLH |
| Sulfide, Reactive | ND | | mg/kg | 10 | 10. | 1 | 04/15/25 18:15 | 04/15/25 19:55 | 125,7.3 | TLH |



Project Name: 251473 Lab Number: L2522084

Project Number: 251473 Report Date: 04/17/25

Method Blank Analysis Batch Quality Control

| Parameter | Result Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-----------------------|------------------------|-------------|--------|----------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - W | estborough Lab for sam | ple(s): 01- | -03 Ba | itch: WO | 32054250- | 1 | | | |
| Sulfide, Reactive | ND | mg/kg | 10 | 10. | 1 | 04/15/25 18:15 | 04/15/25 19:53 | 125,7.3 | TLH |
| General Chemistry - W | estborough Lab for sam | ple(s): 01- | -03 Ba | itch: WO | G2054255- | 1 | | | |
| Cyanide, Reactive | ND | mg/kg | 10 | 10. | 1 | 04/15/25 18:15 | 04/15/25 20:01 | 125,7.3 | TLH |



Project Name: 251473
Project Number: 251473

Batch Quality Control

Lab Number:

Report Date: 04/17/25

L2522084

| Parameter | LCS %Recovery Qual | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Qual RPD Limits |
|--|-----------------------|---------|-------------------|-------|---------------------|-----|------|---------------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG2054250-2 | iated sample(s) | : 01-03 | Batch: WG20542 | 250-2 | | | | |
| Sulfide, Reactive | 74 | | | | 60-125 | | | 40 |
| General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG2054255-2 | iated sample(s) | : 01-03 | Batch: WG20542 | 255-2 | | | | |
| Cyanide, Reactive | 83 | | | | 30-125 | | | 40 |



Lab Duplicate Analysis Batch Quality Control

Project Number: 251473

Project Name:

251473

| Parameter | Native Sample | ple Duplicate Sample | Units | RPD | Qual RPD Limits |
|---|-----------------------------|--------------------------|------------|-------------|--|
| General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG2052535-1 | Associated sample(s): 01-03 | | QC Sample: | L2522073-01 | QC Sample: L2522073-01 Client ID: DUP Sample |
| Solids, Total | 87.3 | 87.4 | % | 0 | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG2054250-3 QC Sample: L2522507-01 Client ID: DUP Sample | Associated sample(s): 01-03 | QC Batch ID: WG2054250-3 | QC Sample: | L2522507-01 | Client ID: DUP Sample |
| Sulfide, Reactive | ND | ND | mg/kg | NC | 40 |
| General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG2054255-3 QC Sample: L2522507-01 Client ID: DUP Sample | Associated sample(s): 01-03 | QC Batch ID: WG2054255-3 | QC Sample: | L2522507-01 | Client ID: DUP Sample |
| Cyanide, Reactive | ND | ND | mg/kg | NC | 40 |



Report Date: Lab Number:

L2522084 04/17/25

Serial_No:04172512:31 Lab Number: L2522084

Report Date: 04/17/25

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Sample Receipt and Container Information

Cooler Information Were project specific reporting limits specified? Project Number: 251473

Project Name:

251473

YES

| Cooler A | Custody Seal Absent |
|-------------|------------------------|
| Α | Absent |

| Container ID | Container Information |
|----------------|-----------------------|
| Container Type | rmation |
| | |

| L2522084-03A | |
|-----------------------------|--|
| Glass 120ml/4oz unpreserved | |
| Þ | |
| NA | |
| 3. <u>1</u> | |
| ~ | |

L2522084-02A

Glass 120ml/4oz unpreserved

⊳

Ϋ́

<u>ω</u>

~

Absent

Absent

NYTCL-8270(14), REACTS(14), HERB-APA(14), TS(7), NYTCL-8081(14), NYTCL-8082(365), REACTCN(14)

L2522084-01A

Glass 120ml/4oz unpreserved

⊳

Ϋ́

<u>ω</u>

~

Absent

| Cooler | |
|-------------|---------|
| ρH | Initial |
| рН | Final |
| deg C | Temp |
| Pres | |
| Seal | |
| Date/Time | Frozen |
| Analysis(*) | |

REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14) NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14)



Project Name: Lab Number: 251473 L2522084 **Report Date: Project Number:** 251473 04/17/25

GLOSSARY

Acronyms

LCSD

MS

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.

 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

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

MDI - 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.

> - 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.

TEO - 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:
 251473
 Lab Number:
 L2522084

 Project Number:
 251473
 Report Date:
 04/17/25

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

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, Benza(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

peaks eluting from Hexane through Dodecane.

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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:
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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- 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.
- 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.)

Report Format: DU Report with 'J' Qualifiers



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 Lab Number:
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 Project Number:
 251473
 Report Date:
 04/17/25

REFERENCES

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.
- Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

LIMITATION OF LIABILITIES

Pace Analytical Services 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 Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services 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 Pace Analytical Services.

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.



Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

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Certification Information

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

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.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

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.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

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,

 ${\sf EPA~180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B}$

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 II, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables)

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

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

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Pace Analytical Services LLC

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

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Certification IDs:

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

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