

Task 210 Subsurface Site Investigation

Southington Rest Area Truck Parking Improvements **Southington, Connecticut**

June 2025

Connecticut Department of Transportation **Environmental Compliance Unit**

2800 Berlin Turnpike
Newington, Connecticut 06111

State Project Number 0170-3637
Assignment Number 623-8459

June 17, 2025

Mr. Daniel Imig, P.E.
Transportation Supervising Engineer
Office of Environmental Compliance
Connecticut Department of Transportation
P.O. Box 317546
Newington, CT 06131-7546

Attention: Mr. Benjamin Silverman

RE: Task Order Environmental Compliance
Southington Rest Area Truck Parking Improvements
Southington, Connecticut
CORE No. 23DOT0143AA, State Project No. 0170-3637, Assignment No. 623-8459
Fuss & O'Neill Project No. 20210730.A62

Dear Mr. Imig:

We are pleased to submit the enclosed Task 210 – Subsurface Site Investigation report conducted at the above-referenced site.

Thank you for the opportunity to conduct this work. Please contact the undersigned if we can be of further assistance.

Sincerely,



Ethan Stewart, CHMM
Senior Environmental Scientist



Robert M. Danielson, LEP
Vice President

Enclosure

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1 Introduction

On behalf of the State of Connecticut Department of Transportation (CTDOT), Fuss & O'Neill, Inc. conducted a Task 210 Subsurface Site Investigation (SSI) in support of State Project No. 0170-3637, Southington Rest Area Truck Parking Improvements project located in Southington, Connecticut. This report provides a brief description of the project area, a discussion of the local environment and receptors, the investigation rationale, a summary of the data obtained during the investigation, an analytical evaluation, and recommendations.

2 Background and Project Information

The objective of this Task 210 SSI is to assess the absence or presence of soil and groundwater (if encountered) contamination, document the nature and extent of contamination, identify source, receptor relationship associated with any releases, and to assess the potential pollutant impacts that may be encountered during construction of the proposed improvements.

The purpose of the transportation project is to construct new truck parking areas with provisions for site circulation, site access, site utility improvements, and associated drainage and stormwater management.

It is anticipated that Task 310 Plans, Specifications and Estimate will subsequently be prepared to assess construction related activities (i.e., proper storage, classification, transport, and disposal of contaminated materials (if any)), in relationship to the environmental conditions prevalent within the project limits, as well as specify remedial work to be included in the Contract Bid Documents.

3 Local Environment and Receptors

3.1 Physiographic Setting

The topography of the overall Site is generally flat with sloped areas towards the east.

3.2 Site Geology

Surficial material at the Site is mapped as till (CT ECO, 2025).

Bedrock beneath the Site is mapped as New Haven Arkose, which is described as reddish, poorly sorted arkose. (Rodgers, 1985).

3.3 Groundwater

The quality of groundwater beneath the Site is classified by the Connecticut Department of Energy and Environmental Protection as GB (DEEP, 2025). GB groundwater is presumed to be used for industrial process water and cooling waters and presumed not suitable for human consumption without treatment (CTDEP, 2011).

The direction of groundwater flow within the surficial geological unit is influenced by a number of factors, including the physical characteristics of the geological unit (such as particle size), the local topography, the presence of surface water bodies, the depth to bedrock, and the type of aquifer. For an unconsolidated,

unconfined aquifer, groundwater generally flows in the direction of the greatest topographic gradient. Based on USGS mapping and field observations of the local topography and surface water hydrology, the inferred groundwater flow direction is to the east.

3.4 Aquifer Protection Area

Aquifer Protection Area (APA) mapping available from Connecticut Environmental Conditions Online (DEEP, 2025) shows the site is not located within an aquifer protection area.

3.5 Surface Water

The nearest surface water body, Quinnipiac River, located approximately 1,300 feet east of the project Site (USGS, 2023) and is classified as Class B.

Designated uses of such inland surface waters are for fish and wildlife habitat, recreational use, agricultural and industrial supply, and other legitimate uses including navigation (CTDEP, 2011).

4 Subsurface Investigation

Based upon the anticipated construction activities and the existing surrounding land use, which is a combination of roadway, commercial and residential developed, Fuss & O'Neill conducted a sampling program within the proposed project limits. The subsurface site investigation was conducted in accordance with our task assignment and the approved Work Plan dated April 2025. The following subsections detail the investigation, which was conducted within the proposed project limits on May 6 and 9, 2025.

4.1 Constituents of Concern

For the purposes of the Site soil investigation, soil handling during construction activities, and potential off-site soil disposal, one or more of the following analytical parameters, listed below, were compared to typical disposal criteria for each soil sample collected from the Site:

- Extractable Petroleum Hydrocarbons (ETPH) by Connecticut ETPH Method
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270
- Volatile Organic Compounds (VOCs) by EPA Method 8260
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Chlorinated Pesticides by EPA Method 8081
- Chlorinated Herbicides by EPA Method 8151
- MCP 14 Metals by EPA Method 6010/7471
- SPLP RCRA 8 Metals + copper, nickel, zinc by EPA Method 6000/7000
- TCLP RCRA 8 Metals + copper, nickel, zinc by EPA Method 1311/6010/7470
- Specific Conductance by SW9050
- Ignitability by SW846-Ignit
- Corrosivity (pH) by SW846-9045
- Reactivity (sulfide/cyanide) by SW846-React

Groundwater was evaluated at various locations throughout the site for the purpose of groundwater handling during construction. Groundwater is compared to the "General Permit for the Discharge of Groundwater

Remediation Wastewater” for construction dewatering purposes with one or more of the following analytical parameters listed below for each groundwater sample collected from the Site.

- Extractable Petroleum Hydrocarbons (ETPH) by Connecticut ETPH Method
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270
- Volatile Organic Compounds (VOCs) by EPA Method 8260
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Chlorinated Pesticides by EPA Method 8081
- Chlorinated Herbicides by EPA Method 8151
- Total and Dissolved RCRA 8 Metals + copper, nickel, zinc by EPA Method 6000/7000

4.2 Task 210 SSI Investigative Procedures

This field investigation included soil sampling at the Site, the sample locations, are shown on *Figures 2 through 5*. The field activities include the following:

- Field marking twenty-one (21) total soil boring locations and notifying “Call Before You Dig” (CBYD), completed on April 28, 2025, CBYD #20251802980.
- The advancement of twenty-one (21) soil borings using Geoprobe™ direct push unit or hand auger on May 6, and 9, 2025.
- The sampling of three (3) monitoring wells on May 6 and 12, 2025.
- Field screening of soil samples for VOCs and petroleum using a photoionization detector (PID).
- The laboratory analysis of thirty-five (35) soil samples and three (3) groundwater samples to evaluate potential releases likely to be encountered during the construction phase of the project.

Geoprobe™ Soil Sampling

On May 6 and 9, 2025 twenty-one (21) soil borings, identified as B-1 through B-21, were advanced up to 15 fbg using a track-mounted Geoprobe direct-push drill rig or hand auger. The depths of soil borings were based on anticipated intrusive construction activities. Soil samples were obtained continuously during advancement of the soil borings using a 2-inch diameter, 5-foot long, sampling device equipped with disposable acetate liners.

A representative portion of each soil core was screened with a PID to detect estimated quantities of total VOCs in vapor emitted from the soil. The PID was equipped with a 10.6 eV bulb and was calibrated to isobutylene standard gas (100 parts per million (ppm)). PID readings were not identified above background (2.0 ppm) and are provided with the boring logs included in Appendix A. No odors or other pertinent information was observed within the borings.

Soil samples were selected for laboratory analysis based upon observations (physical evidence of contamination and/or lithology change), the results of the field screening, and anticipated depth of intrusive construction activities. If visual screening did not indicate contamination, the surficial soil sample was collected for laboratory analyses. The samples were submitted under proper chain of custody Phoenix Environmental Laboratories, Manchester, Connecticut, a State of Connecticut Department of Public Health

certified environmental testing laboratory. Soil samples were analyzed by a State-certified analytical laboratory using Connecticut's reasonable confidence protocols (RCPs).

Field sampling protocols were performed in accordance with the CTDEEP's Guidance for Collecting & Preserving Soil & Sediment Samples for Laboratory Determination of Volatile Organic Compounds document dated March 1, 2006. All boring locations were back-filled upon completion and all down-hole sampling equipment was decontaminated in the field between each use utilizing dry methods and Alconox® solution.

Project Quality Assurance / Quality Control Practices

The DEEP's Quality Assurance and Quality Control (QA/QC) Guidance was used to ensure that the analytical results generated during the investigation are of known and appropriate quality. Specifically, the Laboratory Quality Assurance Control Reasonable Confidence Protocols (RCPs) were utilized for all laboratory analytical methods. The Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation (DQA/DUE) Guidance was utilized to ensure that the analytical data used is of known and sufficient level of quality for the intended purpose.

To assess the collection of samples in the field in terms of the sampling techniques and decontamination procedures followed, QA/QC samples were collected and analyzed.

Laboratory prepared trip blanks (soil and groundwater) accompanied the samples obtained during field sampling activities each day. The soil trip blank consisted of one (1) methanol and two (2) de-ionized 40 ml vials, and the groundwater trip blank consisted of two (2) laboratory prepared vials. The trip blank was placed in the sample cooler with the daily samples until delivery to the laboratory for analysis of EPA Method 8260 volatile organic compounds. The data from the trip blank samples was included in the laboratory report and was used to assess the effectiveness of the decontamination procedures used in the field. Data that may have resulted from cross-contamination due to poor field decontamination and sample storage practices was qualified so that data users are aware of the potential origins of the contaminants. All samples collected in the field were stored in a manner that preserves the integrity of the sample chemistry. Samples intended for organic analyses were stored in an ice-filled cooler until delivery to the laboratory. Chain-of-Custody (COC) forms were filled out and accompanied all the samples collected as a legal record of possession of the samples. The COC is initiated in the field and accompanies the containers during sample collection, transportation to the lab, analysis, and final disposal of the samples.

All sampling equipment was either dedicated to a specific sample or was decontaminated prior to and between each use. Sampling equipment was not placed near solvents, gasoline, or other materials that may impact the integrity of the sampler.

5 Analytical Evaluation

The soil analytical results were compared to the RCS-1 Acceptance Limits for approved facilities under Policy #COMM-15-01 (MassDEP Interim Policy on the Re-Use of Soil for Large Reclamation Projects).

Groundwater is compared to effluent limits for the "General Permit for the Discharge of Groundwater Remediation Wastewater, which is appropriate for handling impacted groundwater during construction activities.

The following summarizes the soil and groundwater limits utilized during this Task 210 SSIR.

5.1 Soil Criteria

If a project generates excess or unsuitable soil and requires off-site disposal, it must be transported to a DOT approved disposal facility. Primarily, disposal facilities and reuse projects located in Massachusetts are typically utilized for projects due to proximity and costs. This report compares the soil data collected to the RCS-1 Acceptance Limits for approved facilities under Policy #COMM-15-01 (MassDEP Interim Policy on the Re-Use of Soil for Large Reclamation Projects) for potential disposal guidance purposes only.

5.2 Groundwater Criteria

Under the DEEP RSRs contaminants in the groundwater are compared either to background quality or the Ground Water Protection Criteria (GWPC), the Volatilization Criteria (VC), as well as the Surface Water Protection Criteria (SWPC). However, CTDOT has had numerous discussions with DEEP staff regarding groundwater encountered during “Construction Projects” and the applicability of the RSRs to these situations. Based on the guidance provided by DEEP, groundwater samples collected are also compared to the MCLs for the “*General Permit for the Discharge of Groundwater Remediation Wastewater*” to determine if GW AOEC(s) for construction dewatering exist within the project limits that would require special handling.

6 Soil Analytical Results

This section presents the findings of the Subsurface Site Investigation. Boring logs are included in *Appendix A*, laboratory analytical reports are provided in *Appendix B*, and sampling locations are shown on *Figures 2 through 5*. Analytical results are summarized in *Table 1*.

6.1 Soil Analytical Results

To determine if releases may have occurred where future construction and excavation activities will be conducted for the proposed project, twenty-one soil borings (B-1 through B-21) were advanced to depths up to 15 feet below grade (fbg). *Table 1* summarizes the soil analytical results comparing them to the RCS-1 limits. Analytical results and field observations are discussed below.

6.1.1 Subsurface Material

As indicated in soil boring logs included in *Appendix A*, the subsurface materials encountered in borings conducted at the site consist primarily of silty-sand material with varying amounts of gravel, silt, and clay. PID readings were not detected above background concentrations in any of the soil borings.

6.1.2 ETPH and SVOC Analytical Results

A total of thirty-five (35) soil samples were analyzed for ETPH and SVOCs. ETPH was not detected above laboratory detection limits in any of the samples analyzed.

SVOCs were not detected above laboratory detection limits in any of the samples analyzed.

6.1.3 VOC Analytical Results

A total of thirty-five (35) soil samples were analyzed for VOCs. No VOCs were detected above laboratory reporting limits in any of the soil samples analyzed.

6.1.4 PCB Analytical Results

A total of thirty-five (35) soil samples were analyzed for PCBs. PCBs were not detected above the laboratory reporting limits in any of the soil samples analyzed.

6.1.5 Herbicide and Pesticide Analytical Results

A total of thirty-five (35) soil samples were analyzed for chlorinated herbicides. Herbicides were not detected above the laboratory reporting limits in any of the soil samples analyzed.

A total of thirty-five (35) soil samples were analyzed for chlorinated pesticides. Chlorinated pesticides were not detected above the laboratory reporting limits in any of the soil samples analyzed.

6.1.6 Metals Analytical Results

A total of thirty-five (35) soil samples were submitted to the laboratory for total metals. One or more of the following MCP 14 metals; arsenic, barium, beryllium, cadmium, chromium, lead, mercury, nickel, vanadium, and zinc were detected above the laboratory reporting limits, but below RCS-1 limits.

A total of thirty-five (35) soil samples were analyzed for TCLP RCRA 8 metals, total copper, nickel, and zinc. One or more of the following metals: barium, chromium, copper, nickel, zinc were detected above laboratory detection limits, but below RCS-1 limits.

In addition, a total of thirty-five (35) soil samples were analyzed for leachable metals by SPLP, which will be used to evaluate soil for re-use. Results were not compared to RCS-1 limits and should be evaluated during project planning comparing the soil to applicable Connecticut criteria.

6.1.7 Specific Conductance, Flashpoint, Ignitability, Corrosivity, pH, Conductivity, Reactivity Analytical Results, and Field Screening

A total of thirty-five (35) samples were submitted to the laboratory for typical soil disposal analytical including specific conductance, flashpoint, ignitability, corrosivity, pH, conductivity, and reactivity analysis. The pH result in soil sample B-14 (1-3') at 4.84 s.u. is below typical soil background results and typical disposal limits.

Field screening of all soil during the field investigation was performed with a handheld PID. None of the soil screened registered above 0.0 ppm.

7 Groundwater Analytical Results

One (1) grab groundwater sample was analyzed from a temporarily installed monitoring well at the location of soil boring, B-10 (MW-10). Two (2) groundwater samples were collected and analyzed from existing monitoring wells, labeled accordingly by the nearest soil boring collected, B-4 (MW-4), B-7 (MW-7).

7.1.1 ETPH and SVOC Analytical Results

Three (3) groundwater samples were analyzed for ETPH and SVOCs.

ETPH and SVOCs were not detected above laboratory reporting limits in the groundwater samples obtained.

7.1.2 VOC Analytical Results

Three (3) groundwater samples were analyzed for VOCs. No VOCs were detected above laboratory reporting limits in the groundwater samples obtained from MW-10. Chloroform was detected at 2.2 ug/L at both MW-4 and MW-7. Chloroform does not have an MCL and is a common laboratory contaminant and likely not representative of the groundwater.

7.1.3 PCB Analytical Results

Three (3) groundwater samples were analyzed for PCBs. PCB compounds were not detected above the laboratory reporting limits in the groundwater samples obtained.

7.1.4 Herbicide and Pesticide Analytical Results

Three (3) groundwater samples were analyzed for chlorinated herbicides and pesticides. Herbicides and pesticides were not detected above the laboratory reporting limits in the groundwater samples analyzed.

7.1.5 Metals Analytical Results

Three (3) groundwater samples were submitted to the laboratory for total and dissolved metals analysis. Total metals: arsenic, barium, cadmium, chromium, copper, lead, nickel, and zinc were detected above laboratory detection limits in MW-4, MW-7, and MW-10. Dissolved metals: barium, nickel, and zinc were detected above laboratory detection limits in samples MW-4, MW-7, and MW-10. Dissolved copper was also detected above laboratory detection limits in sample MW-7.

Multiple total metals were detected above the Surface Water MCLs in samples MW-4, MW-7, and MW-10. Total barium was reported above the POTW MCL in water sample MW-4.

Multiple dissolved metals were detected in samples MW-4, MW-7, and MW-10 above laboratory detection limits, but below both Surface Water and POTW MCLs.

8 Quality Assurance/Quality Control

All equipment intended for use during the sampling program was decontaminated before arrival at the site. In addition, all non-dedicated sample collection equipment was decontaminated in the field between each discrete sampling location to avoid cross contamination. The following QA/QC procedures were followed at the site:

- Selection of analytical methods with appropriate detection limits
- Use of pre-determined sampling handling and custody procedures
- Use of pre-determined data management and documentation procedures
- Selection of sampling locations and COCs appropriate to the potential release area
- Use of trip blanks for quality assurance/quality control
- Use of Connecticut's RCP and laboratory QA/QC procedures

The analytical data is of adequate quality for the intended purpose of the project.

9 Discussion of Affected Resources

The following provides a summary of the potential sources of soil and groundwater contamination identified during completion of this Task 210 SSI, an evaluation of potential pathways for migration, and the identification of preliminary Areas of Environmental Concern (AOECs), defined as soil and/or groundwater concentrations greater than RCS-1 limits and General Permit limits within the project area.

Based on the Task 210 SSI results, no soil or groundwater AOECs were identified within the project limits.

10 Conclusion and Recommendations

The results of the environmental investigation indicated that no contaminants of concern (COCs) locally exist in soil and groundwater within the proposed project limits at concentrations above typical disposal limits or groundwater discharge limits per the general permit, therefore no AOECs have been identified within the project limits.

- Metals detected in the soil samples collected were reported at concentrations of typical background levels.
- Laboratory analysis indicated no COC being reported above laboratory detection limits in the soil samples collected.
- Laboratory analyses indicated that soil sampled from B-14 (1-3') within the project limits has reported low pH, slightly below typical background, and disposal concentrations, but not considered an AOEC.
- The groundwater within the project limits is designated as GB and all samples analyzed for SPLP metals were below the GB PMC criteria. However, some of the SPLP results for metals were above the GA PMC, which may limit excess soil reuse outside the project limits and/or disposal facilities based on specific facility requirements.

- General construction sediment controls for dewatering activities would be necessary prior to discharge. Groundwater was not impacted with contaminants that would require special treatment, other than sediment control in the areas tested.

Fuss & O'Neill recommends that a Task 310 – Plans, Specifications, and Estimates be assigned to prepare plans and specifications for the proper management and/or disposal of controlled materials (soil) that may be reused, removed, handled, transported, or disposed during construction activities and for the establishment of appropriate worker health and safety protocols, due to site historical operations.

11 References

State of Connecticut Department of Energy and Environmental Protection (CTDEEP), Remediation Standard Regulations, Sections 22a-133k-1 through –3 of the Regulations of Connecticut State Agencies, February 2021.

CTDEEP, “Water Quality Classifications Map of Manchester”, CTECO website.

CTDEEP, “Recommended Numeric Criteria for Common Additional Polluting Substances and Certain Alternative Criteria”, December 10, 2015.

State of Connecticut Department of Transportation, Division of Environmental Compliance, CTDOT “On-Call Contaminated Soil/Groundwater Scopes” Manual.

Rogers, John, USGS, “Bedrock Geological Map of Connecticut”, dated 1985.

Stone, J., USGS, “Surficial Materials Map of Connecticut”, dated 1992.

12 Limitations of Work

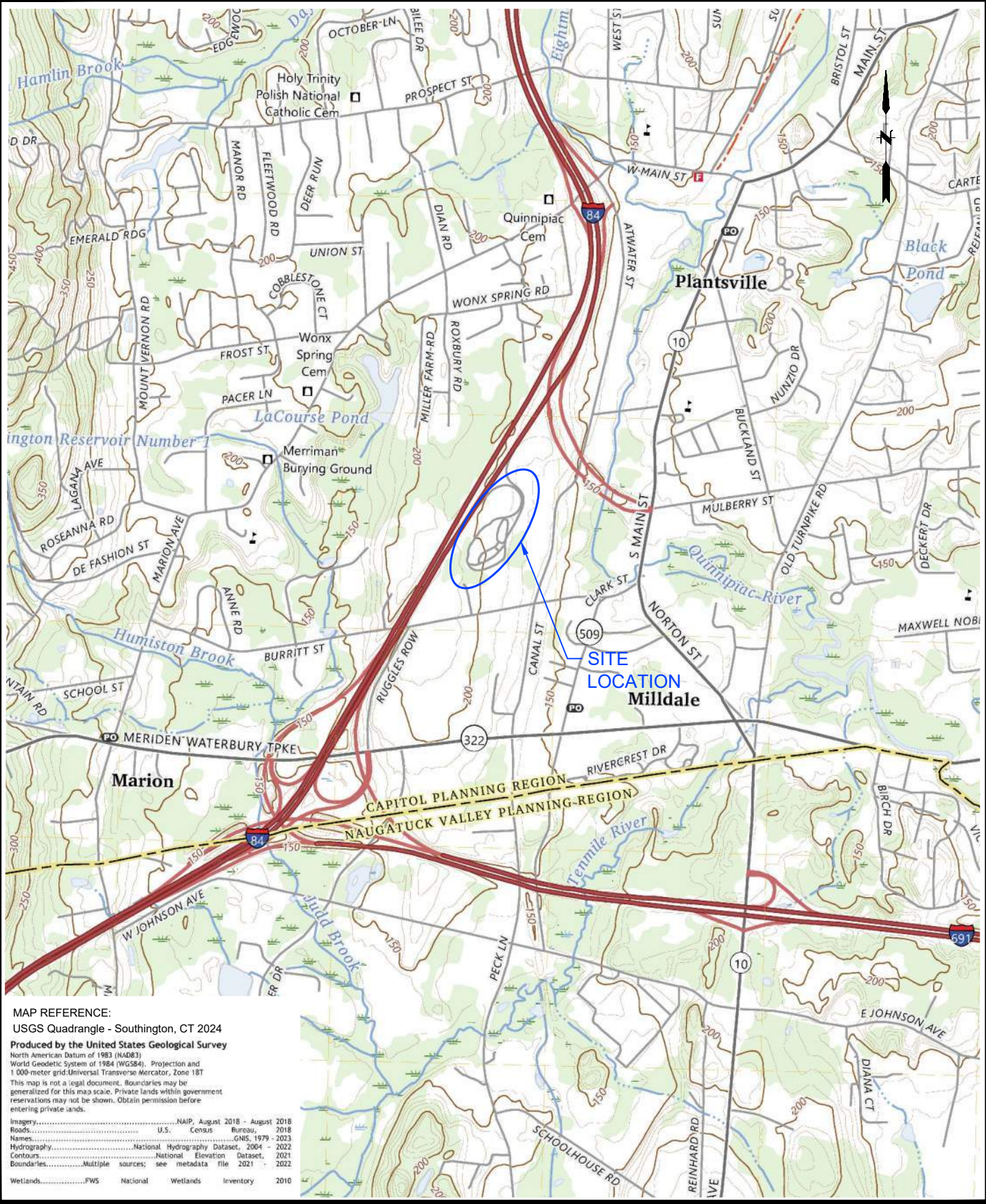
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1. Consultant represents that it prepared the work product in accordance with the professional and industry standards prevailing at the time such services were rendered.
2. The work product may contain information that is time sensitive. The work product was prepared by Consultant subject to the particular scope limitations, budgetary and time constraints and business objectives of the Client which are detailed therein or in the contract between Consultant and Client. Changes in use, tenants, work practices, storage, Federal, state, or local laws, rules or regulations may affect the work product.
3. The observations described and upon which the work product was based were made under the conditions stated therein. Any conclusions presented in the work product were based solely upon the services described therein, and not on scientific or engineering tasks or procedures beyond the scope of described services.
4. In preparing its work product, Consultant may have relied on certain information provided by state and local officials and information and representations made by other parties referenced therein, and on information contained in the files of state and/or local agencies made available at the time of the project. To the extent that such files which may affect the conclusions of the work product are missing, incomplete, inaccurate, or not provided, Consultant is not responsible. Although there may have been some degree of overlap in the information provided by these various sources, Consultant did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this project. Consultant assumes no responsibility or liability to discover or determine any defects in such information which could result in failure to identify contamination or other defect in, at or near the site. Unless specifically stated in the work product, Consultant assumes no responsibility or liability for the accuracy of drawings and reports obtained, received, or reviewed.
5. If the purpose of this project was to assess the physical characteristics of the subject site with respect to the presence in the environment of hazardous substances, waste or petroleum and chemical products and wastes as defined in the work product, unless otherwise noted, no specific attempt was made to check the compliance of present or past owners or operators of the subject site with Federal, state, or local laws and regulations, environmental or otherwise.
6. If water level readings have been made, these observations were made at the times and under the conditions stated in the report. However, it must be noted that fluctuations in water levels may occur due to variations in rainfall, passage of time and other factors and such fluctuations may affect the conclusions and recommendations presented herein.

7. Except as noted in the work product, no quantitative laboratory testing was performed as part of the project. Where such analyses have been conducted by an outside laboratory, Consultant has relied upon the data provided, and unless otherwise described in the work product has not conducted an independent evaluation of the reliability of these tests.
8. If the conclusions and recommendations contained in the work product are based, in part, upon various types of chemical data, then the conclusions and recommendations are contingent upon the validity of such data. These data (if obtained) have been reviewed and interpretations made by Consultant. If indicated in the work product, some of these data may be preliminary or screening-level data and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time and other factors.
9. Chemical analyses may have been performed for specific parameters during the course of this project, as described in the work product. However, it should be noted that additional chemical constituents not included in the analyses conducted for the project may be present in soil, groundwater, surface water, sediments or building materials at the subject site.
10. Ownership and property interests of all documents, including reports, electronic media, drawings and specifications, prepared or furnished by Consultant pursuant to this project are subject to the terms and conditions specified in the contract between the Consultant and Client, whether or not the project is completed.
11. Unless otherwise specifically noted in the work product or a requirement of the contract between the Consultant and Client, any reuse, modification or disbursement of documents to third parties will be at the sole risk of the third party and without liability or legal exposure to Consultant.
12. In the event that any questions arise with respect to the scope or meaning of Consultant's work product, immediately contact Consultant for clarification, explanation or to update the work product. In addition, Consultant has the right to verify, at the party's expense, the accuracy of the information contained in the work product, as deemed necessary by Consultant, based upon the passage of time or other material change in conditions since conducting the work.
13. Any use of or reliance on the work product shall constitute acceptance of the terms hereof.

Figures

File: J:\DWG\20210730A62\Environmental\Plan\20210730A62_ST01_site loc.dwg Layout: 08.5X11-P Plotted: 2025-06-11 9:46 AM User: sarah.rocheit
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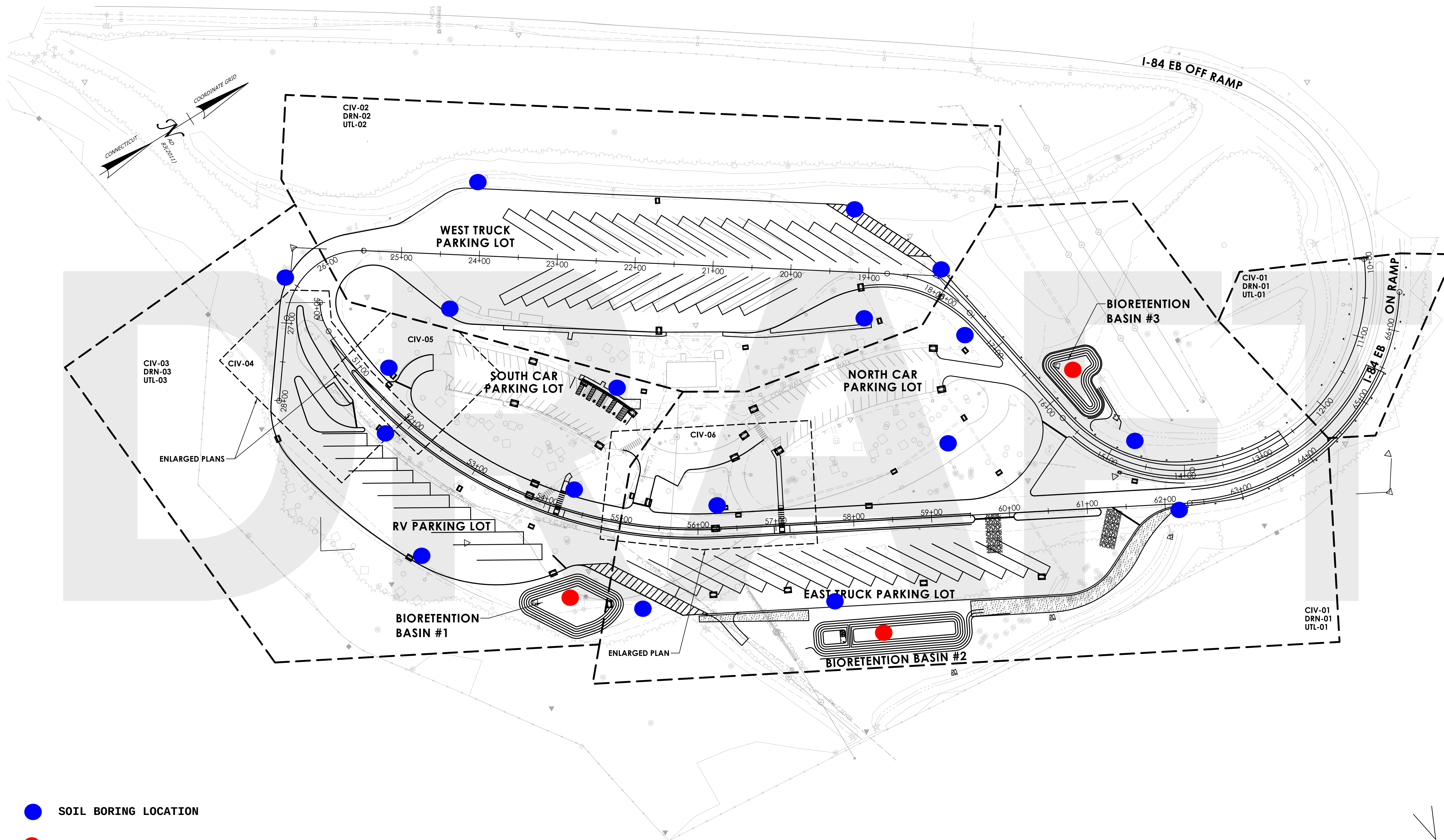


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0 1000' 2000'
GRAPHIC SCALE

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CTDOT
SITE LOCATION MAP
SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS
SOUTHINGTON CONNECTICUT

PROJ. No.: 20210730.A62
DATE: JUNE 2025
FIGURE 1

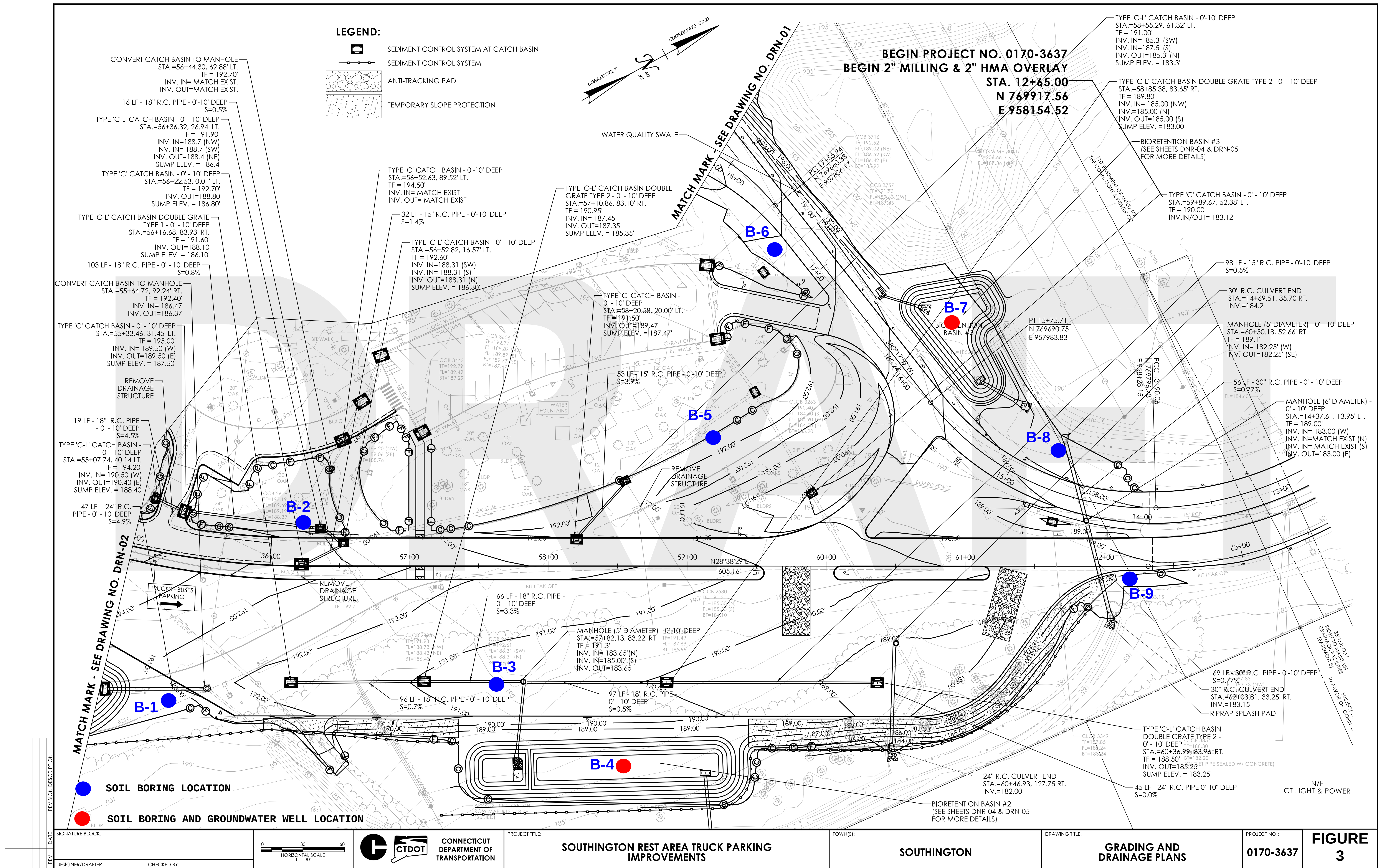


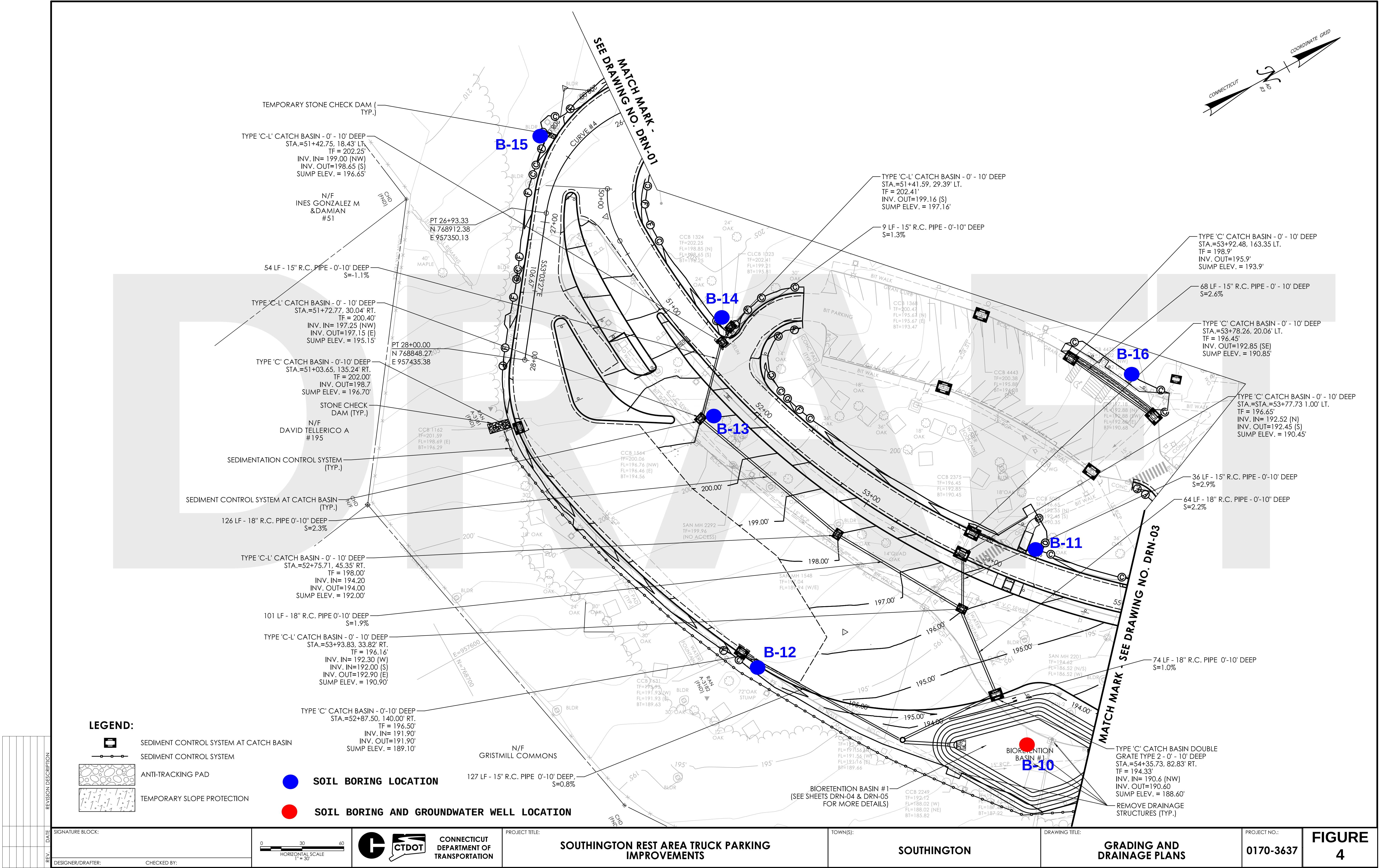
- SOIL BORING LOCATION
- SOIL BORING AND GROUNDWATER WELL LOCATION

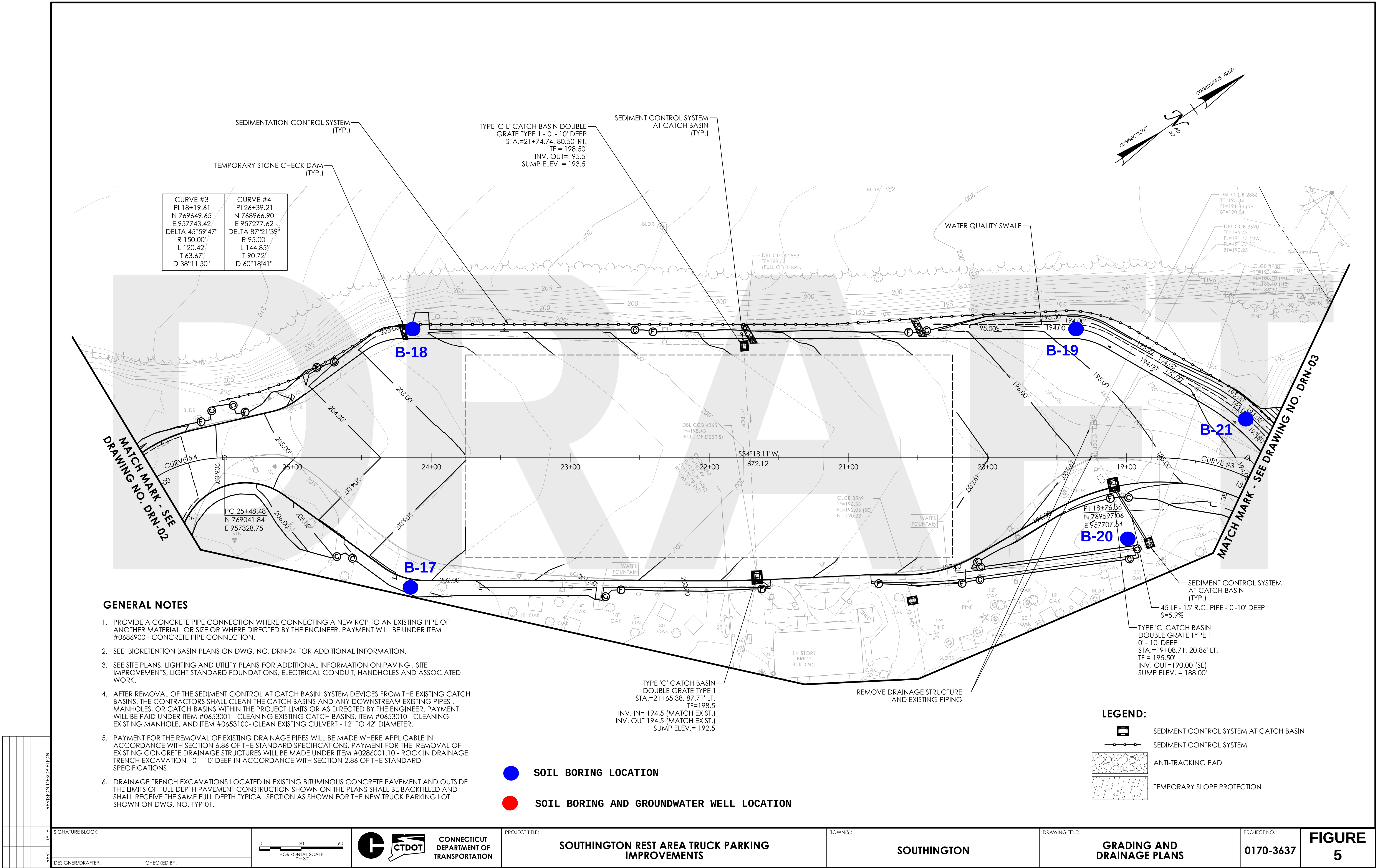
REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: DESIGNER/DRAFTER: REH CHECKED BY: JSP		0 60' 120' HORIZONTAL SCALE 1" = 60'		CTDOT CONNECTICUT DEPARTMENT OF TRANSPORTATION		PROJECT TITLE: SOUTHINGTON REST AREA TRUCK PARKING IMPROVEMENTS		TOWN(S): SOUTHINGTON		DRAWING TITLE: KEY PLAN		PROJECT NO.: 0170-3637		FIGURE 2	

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Tables

Table 1
Summary of Detected Constituents in Soil - RCS-1 Limits
Southington Real Area Truck Parking Improvements
Southington, Connecticut

Sample Location		B-1	B-1	B-2	B-2	B-3	B-3	B-4	B-5	B-5	B-6	B-6	B-7	B-7	B-8	B-8	B-9	B-9
Sample Depth (feet)		1.3	7.9	1.3	5.7	1.3	5.7	6.2	1.3	7.9	1.3	7.9	1.3	1.3	1.3	1.3	1.3	1.3
Sample ID		1960250506-81 (1-3)	1960250506-81 (1-3)	1960250506-82 (1-3)	1960250506-82 (1-3)	1960250506-83 (1-3)	1960250506-83 (1-3)	1960250511-84 (1-2)	1960250509-85 (1-3)	1960250509-85 (4-6)	1960250509-86 (1-4)	1960250509-86 (4-6)	1960250509-87 (1-3)	1960250509-88 (1-3)	1960250509-88 (1-3)	1960250509-88 (1-3)	1960250509-89 (1-3)	1960250509-89 (1-3)
Sample Date		5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/12/2025	5/12/2025	5/9/2025	5/9/2025	5/9/2025	5/9/2025	5/9/2025	5/9/2025	5/9/2025	5/9/2025	5/9/2025
Laboratory Report Number		CT25295	CT25297	CT25298	CT25299	CT25310	CT25311	CT25486	CT25488	CT25489	CT25495	CT25497	CT25494	CT25495	CT25495	CT25495	CT25495	CT25495
Parameter																		
Extractable Total Petroleum Hydrocarbon (CT-179) (mg/kg)		500																
ETPH																		
Metals (EPA 625C & 7471B) (mg/kg)																		
Antimony		10	<3.8	<3.3	<4.1	<3.9	<3.6	<3.9	<5.3	<3.7	<3.5	<3.4	<3.5	<4.4	<3.9	<4.0	<3.8	<4.1
Arsenic		20	1.57	3.24	1.5	3.49	2.77	5.36	2.9	1.56	3.09	1.44	3.64	1.15	1.48	4.44	5.49	2.76
Barium		375	102	87.8	84.1	145	84.1	193	115	80.1	147	82.7	137	82.6	119	165	169	193
Beryllium		4	0.99	0.71	1.26	0.85	0.86	0.71	0.85	0.79	0.45	0.78	0.46	0.46	0.51	1.49	1.66	1.16
Cadmium		20	0.99	<0.33	<0.43	<0.39	0.53	<0.33	<0.33	<0.37	<0.35	<0.34	<0.35	<0.44	<0.39	<0.40	<0.38	<0.41
Chromium		100	12.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	11	12.4	16	12.4	16	21.5	26.5	23.7
Lead		200	16.4	9.48	8.12	12.2	33.7	13.5	37.3	10	6.14	16.2	11.4	6.65	6.18	20.4	24	16.6
Mercury		3	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	0.04	0.04	<0.03	<0.03	<0.03	<0.04	<0.03	<0.03	<0.03	<0.03
Nickel		150	31.8	10	8.39	11.4	14.2	20	12.3	16.4	7.92	10.9	11	9.81	8.07	19.7	22.2	15.4
Selenium		5	<1.5	<1.3	<1.6	<1.6	<1.5	<1.5	<2.1	<1.5	<1.4	<1.4	<1.4	<1.7	<1.6	<1.6	<1.5	<1.5
Silver		6	<0.38	<0.33	<0.41	<0.39	<0.36	<0.39	<0.33	<0.37	<0.35	<0.34	<0.35	<0.44	<0.39	<0.38	<0.42	<0.37
Thallium		6	<3.4	<3.0	<3.7	<3.5	<3.3	<4.7	<3.3	<3.1	<3.1	<3.1	<3.9	<3.5	<3.6	<3.4	<3.7	<3.4
Vanadium		225	47.7	23.4	29.9	43.7	39.7	42.7	52.2	33.3	36.7	35.6	37.7	31.4	48.3	37.2	45.6	34.1
Zinc		100	74.9	24	29.2	32.1	70.5	56	75.2	38.7	33	28.8	35.9	27.3	46.9	39.6	40	50.8
Metals, TCLP EPA 6200A (mg/L)																		
Arsenic		<5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium		<100	0.45	0.35	0.59	0.63	0.53	0.45	0.3	0.5	0.56	0.7	0.27	0.45	0.73	0.43	0.4	0.45
Cadmium		<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium		<5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper		NE	<0.010	<0.010	<0.010	<0.010	0.018	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead		<5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Mercury		<0.2	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel		NE	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Selenium		<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver		<5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc		NE	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Metals, SWP EPA 6200 (mg/L)																		
Arsenic			0.004	0.005	0.005	<0.004	<0.004	0.014	<0.004	<0.004	0.013	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium			0.034	0.17	0.444	0.187	0.071	0.572	0.13	0.02	0.021	0.099	0.046	0.115	0.022	0.022	0.192	0.027
Cadmium		Information	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium		Collected For Sol	<0.010	<0.010	0.023	<0.010	0.010	0.036	<0.010	<0.010	<0.010	<0.010	<0.010	0.016	<0.010	0.016	0.01	<0.010
Copper		Re-use Purposes	0.02	<0.010	0.014	<0.010	0.062	0.096	0.066	<0.010	0.027	<0.010	<0.010	0.018	<0.010	<0.010	<0.010	<0.010
Lead		Analytical To Be	<0.010	<0.010	0.021	<0.010	0.061	0.061	0.04	<0.010	<0.010	0.085	<0.010	<0.010	0.01	<0.010	0.012	<0.010
Mercury		Compared to CT	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel		ISRs for Re-use	0.212	<0.010	0.011	<0.010	0.012	<0.010	0.02	<0.010	<0.010	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Selenium		In CT	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Silver			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc			0.04	0.02	0.054	0.026	0.062	0.026	0.081	0.022	0.022	<0.020	0.026	0.035	0.029	0.028	0.038	<0.010
Pesticides EPA 823B (mg/kg)																		
Total Pesticides		various	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Organophates & Dioxane By SW8260 (DXY)		various	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total Organophates & Dioxane																		
Polychlorinated Biphenyls (PCBs) EPA 823A (mg/kg)																		
Total PCBs		0.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mercury EPA 8151A (mg/kg)																		
Total Mercury		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Volatile Organic Compounds EPA 826C (mg/kg)																		
Total VOCs		various	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Semi-volatile Organic Compounds EPA 8270 (mg/kg)																		
Total SVOCs		various	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EPA 1810B (°F)																		
Flashpoint		Non-ignitable	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200
SW 846 - Ignit (°F)																		
Ignitability		>140 °F	Negative	Negative	Negative	Negative	Negative	Negative	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed	Passed
SW 846 - React (mg/kg)																		
Reactive Cyanide		<250	<5	<5	<5	<5	<6	<6	<7	<5	<5	<5	<5	<6	<5	<5	<6	<5
Reactive Sulfide		<500	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
SW 846 - Cor (mg/kg)																		
Corrosivity		Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative
EPA 8260 (ppm Units)																		
pH		5.0-9.0 S.U.*	7.46	7.36	6.02	6.31	7.51	7.43	6.4	6.37	6.81	7.35	8.14	5.86	6.38	6.17	7.25	6.97
SW 8260A (umho/cm)																		
Conductivity		2,000	39	74	13	80	29	38	16	31	1,080	1,130	216	222	7	482	171	730
SW 846 (mg/kg)																		
Reactivity		Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative
SW 2549 (mg/kg)																		
Percent Solids		89	90	89	84	86	83	83	83	67	91	91	90	89	70	87	90	84
SW 846 (mg/kg)												</						

Table 1
Summary of Detected Constituents in Soil - RCS-1 Limits
Southington Real Area Truck Parking Improvements
Southington, Connecticut

Sample Location		B-10	B-10	B-11	B-11	B-12	B-12	B-13	B-13	B-14	B-14	B-15	B-16	B-16	B-17	B-18	B-19	B-20	B-21
Sample ID		5	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sample Date		5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025	5/6/2025
Laboratory Report Number		CT21514	CT21515	CT21516	CT21517	CT21518	CT21519	CT21520	CT21521	CT21522	CT21523	CT21524	CT21525	CT21526	CT21527	CT21528	CT21529	CT21530	CT21531
Parameter																			
Extractable Total Petroleum Hydrocarbon (C1-ETPH) (mg/kg)		500																	
ETPH																			
Metals (EPA 6010C & 7471B) (mg/kg)																			
Antimony	10	<1.4	<1.5	<4.4	<3.4	<3.4	<3.7	<3.3	<3.6	<3.7	<3.9	<3.7	<4.2	<4.0	<3.7	<3.4	<4.2	<3.2	<3.4
Arsenic	20	1.92	1.72	6.23	2.39	1.55	2.76	1.29	1.2	2.01	1.2	1.02	2.63	2.42	3.02	2.37	1.81	1.89	4.86
Barium	375	80.5	84.8	85.8	54.1	112	119	65.7	70	45.6	51.9	45.8	74.7	74.7	47.1	76.9	89.8	69.2	144
Beryllium	4	0.6	0.76	0.44	0.43	0.77	0.77	0.33	0.36	0.33	0.37	0.36	0.77	0.84	0.37	0.64	0.62	0.64	1.27
Cadmium	20	<0.42	<0.34	<0.34	<0.35	<0.45	<0.37	<0.36	<0.35	<0.37	<0.33	<0.39	<0.37	<0.37	<0.37	<0.34	<0.45	<0.33	<0.34
Chromium	100	17.8	14.4	9.66	12.7	10.5	12.1	8.7	8.78	11.5	11.6	14.3	13.1	13.1	10.7	17.2	26.1	19.1	19.1
Cobalt	10	<0.04	<0.03	<0.03	<0.03	<0.04	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	<0.03	<0.03
Copper	100	11.8	8.95	6.25	4.93	10.5	9.78	7.02	7.02	5.95	7.19	6.2	7.45	7.45	9.68	15.2	23	18.7	36.7
Lead	20	<0.42	<0.34	<0.34	<0.35	<0.45	<0.37	<0.36	<0.35	<0.37	<0.33	<0.39	<0.37	<0.37	<0.37	<0.34	<0.45	<0.33	<0.34
Mercury	3	<0.04	<0.03	<0.03	<0.03	<0.04	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	<0.03	<0.03
Nickel	100	11.8	8.95	6.25	4.93	10.5	9.78	7.02	7.02	5.95	7.19	6.2	7.45	7.45	9.68	15.2	23	18.7	36.7
Selenium	5	<1.7	<1.6	<1.4	<1.4	<1.8	<1.4	<1.4	<1.5	<1.3	<1.4	<1.5	<1.5	<1.5	<1.5	<1.4	<1.8	<1.3	<1.4
Silver	6	<0.42	<0.34	<0.34	<0.35	<0.45	<0.37	<0.36	<0.35	<0.37	<0.33	<0.39	<0.37	<0.37	<0.37	<0.34	<0.45	<0.33	<0.34
Thallium	6	<3.8	<3.6	<3.1	<3.1	<4.0	<3.1	<3.1	<3.3	<3.0	<3.3	<3.3	<3.3	<3.3	<3.3	<3.1	<4.1	<2.9	<3.1
Zinc	225	32.8	26.4	21.3	18.5	33.6	26.1	38	26.2	21.7	34.7	34	31	27.7	71.6	63.5	50.5	40.9	49.7
Zinc	500	48.1	23.8	14.2	13	32.9	27.1	36.5	17.6	10.3	14.1	22.9	16.1	16.8	26.5	50.7	37.1	43.8	45.5
Metals, TCLP EPA 6020A (mg/L)																			
Arsenic	<5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04
Barium	<100	0.49	0.33	0.6	0.42	0.61	0.33	0.44	0.28	0.65	0.61	0.37	0.61	0.61	0.47	0.38	0.39	0.73	0.38
Cadmium	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	<5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper	NE	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.01	<0.010	0.014	<0.010	<0.010
Lead	<5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Mercury	<0.2	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	NE	0.027	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Selenium	<5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver	<5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc	NE	0.067	0.064	0.099	0.061	0.091	0.1	0.063	0.065	0.051	0.071	0.051	0.062	0.077	0.061	0.123	0.092	0.096	0.061
Metals, SWP EPA 6020 (mg/L)																			
Arsenic	0.005	0.01	0.017	<0.004	<0.004	0.019	0.006	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium	0.308	0.307	0.633	0.079	0.38	0.537	0.33	0.127	<0.010	<0.010	<0.010	<0.010	0.075	<0.010	0.083	0.116	0.099	0.085	0.085
Cadmium	Information	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	Collected for Use	0.016	0.026	0.026	0.011	0.094	0.021	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Copper	Re-use Purposes	<0.010	0.011	0.005	<0.010	0.015	0.122	0.013	0.010	0.010	0.010	0.010	0.010	0.010	0.01	0.010	0.012	0.010	0.010
Lead	Analytical To Re	0.011	0.017	0.022	<0.010	0.015	0.076	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	0.010	0.010	0.010	0.010
Mercury	Conserved to CT	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	RSLs for Re-use	<0.010	0.011	0.014	<0.010	0.012	0.019	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	<0.010	<0.010	<0.010	<0.010
Selenium	in CT	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver	<5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc	0.034	0.043	0.045	0.025	0.097	0.114	0.055	<0.010	<0.010	<0.010	<0.010	<0.010	0.023	0.022	0.027	0.024	0.022	0.022	0.02
Pesticides EPA 80618 (mg/kg)																			
Total Pesticides	various																		
Organophosphates & Glucanase By SW82600 (DXY)																			
Total Organophosphates & Glucanase	various																		
Polychlorinated Biphenyls (PCBs) EPA 8082A (mg/kg)																			
Total PCBs	0.1																		
Polychlorinated Biphenyls (PCBs) EPA 8151A (mg/kg)																			
Total PCBs																			
Total PCBs																			
Volatile Organic Compounds (VOCs) EPA 8260C (mg/kg)																			
Total VOCs	various																		
Semivolatile Organic Compounds (SVOCs) EPA 8270D (mg/kg)																			
Total SVOCs	various																		
EPA 1818B (°F)																			
Flammability	Non-ignitable	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200
SW 846 - Ignite (°F)																			
Ignitability	>140°F	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Passed	Passed	Passed	Passed
SW 846 - React (mg/kg)																			
Reactive Compounds	<250	<7	<5	<5	<6	<6	<5	<5	<5	<5	<5	<6	<5	<5	<5	<5	<5	<5	<5
Reactive Solids	<500	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
SW 846 - Cor (mg/kg)																			
Corrosivity	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative
EPA 50420 (g/L) (mg/L)																			
pH	5.0-9.0 U.S.U.	7.06	6.69	7.59	8.3	5.86	6.48	6.89	7.95	4.84	6.08	6.15	6.25	7.89	5.82	8.19	8.35	8.36	7.45
SW 846 - Conductivity (mg/L)																			
Conductivity	2,000	10	59	20	16	95	40	41	12	313	338	14							

Table 2
Summary of Detected Constituents in Groundwater - General Permit MCLs
Southington Rest Area Trucking Parking Improvements
Southington, Connecticut

Sample Location Field ID Sampled Date Laboratory Report Number	General Permit for the Discharge of Groundwater Remediation Wastewater		MW-4	MW-7	MW-10
	MCLs		1960250512-MW-4	1960250512-MW-7	1960250506-MW-10
	Surface Water Limit	POTW Limit	5/12/2025 CT25437	5/12/2025 CT25438	5/6/2025 CT21526
Parameter					
CT-ETPH (mg/L)					
ETPH	5	100	--	--	--
Total Metals EPA 6010/200.7 (µg/L)					
Arsenic	0.021	100	81	4	28
Barium	NE	5,000	5,050	673	1,910
Cadmium	10	100	20	3	6
Chromium	342	1,000	564	72	426
Copper	48	1,000	243	452	184
Lead	9.8	100	299	7	30
Mercury	ND	ND	--	--	--
Nickel	235	1,000	434	109	106
Selenium	40	1,000	--	--	--
Silver	5	100	--	--	--
Zinc	322	1,000	945	109	191
Dissolved Metals per EPA 6010/200.7 (µg/L)					
Arsenic	0.021	100	--	--	--
Barium	NE	5,000	156	83	69
Cadmium	10	100	--	--	--
Chromium	342	1,000	--	--	--
Copper	48	1,000	--	11	--
Lead	9.8	100	--	--	--
Mercury	ND	ND	--	--	--
Nickel	235	1,000	4	53	4
Selenium	40	1,000	--	--	--
Silver	5	100	--	--	--
Zinc	322	1,000	4	5	3
Pesticides per EPA 8081 (µg/L)					
Total Pesticides	various	various	--	--	--
PCBs EPA 8082 (µg/L)					
Total PCBs	<0.1	<1	--	--	--
Herbicides per EPA 8151 (µg/L)					
Total Herbicides	various	various	--	--	--
SVOCs EPA 8270 (µg/L)					
Total SVOCs	various	various	--	--	--
Semi-Volatiles (SIM) SW8270E					
Phenanthrene	NE	NE	--	0.11	--
VOCs EPA 8260 (µg/L)					
Chloroform	NE	NE	2.2	2.2	--
Oxygentates & Dioxanes SW8260D					
Total Oxygentates & Dioxanes	NE	NE	--	--	--

NOTES:

MCL = maximum concentration limits listed in the DEEP General Permit for Discharge of Groundwater

mg/l = milligrams per liter

ug/l = micrograms per liter

-- = analyte not detected at or above the laboratory reporting limit

NA = Not Analyzed

NE = Not Established

BOLD TEXT = Exceeds Surface Water MCL

SHADED BOX = Exceeds Sanitary Sewer MCL

Appendix A

Soil Boring Logs

	BORING LOG		Location ID: <u> B-1 </u>	
	Project Name: <u>Southington Rest Area</u>		Sheet #: <u> 1 </u> of <u> 1 </u>	
	Project Location: <u>Southington, CT</u>		Project #: <u>20210730.A62</u> Weather: <u>Rainy, 60°</u>	

Contractor: <u> Cisco Geotechnical, LLC </u> Operator: <u> Max </u> F&O Representative: <u> Will Grob (F&O) </u> Drilling Method: <u> Direct Push </u> Sampling Method: <u> MarcoCore/Acetate Sleeves </u> Hammer Weight: <u> --- </u> Hammer Fall (inches): <u> --- </u>	Location Description: <u> See Figure </u> Date Started: <u> 5/6/2025 </u> Date/Time Completed: <u> 5/9/2025 </u> Depth to Saturated Zone: <u> 8 feet </u> Sample # Prefix: <u> 1960250506-B1(1-3)&(7-9) </u>

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO- LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0	N/A		0.0'- 1.5'	NO RECOVERY	ND	NR			
			1.5'- 2.0'	Topsoil	ND	TS			
			2.0'- 3.0'	SAND, F-M, trace gravel, And organics, brown, no odor.	ND	GP	-B1 0950	1.0-3.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
			3.0'- 4.5'	SAND, F-M, little silt, some gravel, light brown, rock layer at 4.5'-4.75', no odor.	ND	ML			
4.5			4.5'- 7.0'	SAND, F-M, And gravel, trace silt, brown, no odor	ND	SW			
			7.0'- 8.0'	SAND, F-M, trace gravel, moist, brown, no odor.	ND	SW	-B1 1007	7.0-9.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
			8.0'- 9.0'	SAND, F-M, trace gravel, some silt, trace clay, wet, brown, no odor.	ND	ML			
9			9.0'- 10.0'	ROCK	ND	RK			

BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS Field Instrument = _____ If refusal is encountered, describe all efforts used to confirm. PID/OVM Field Decon: Yes / No / Dedicated Device
2"	Geoprobe	10 feet	

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50% EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff: _____	BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/Native Material <u> 0.0 </u> To <u> 10.0 </u> Other _____ To _____

	BORING LOG		Location ID: <u>B-2</u>	
	Project Name: <u>Southington Rest Area</u>		Sheet #: <u>1</u> of <u>1</u>	
	Project Location: <u>Southington, CT</u>		Project #: <u>20210730.A62</u> Weather: <u>Rainy, 60°</u>	

Contractor: <u>Cisco Geotechnical, LLC</u> Operator: <u>Max</u> F&O Representative: <u>Will Grob (F&O)</u> Drilling Method: <u>Direct Push</u> Sampling Method: <u>MarcoCore/Acetate Sleeves</u> Hammer Weight: <u>---</u> Hammer Fall (inches): <u>---</u>	Location Description: <u>See Figure</u> Date Started: <u>5/6/2025</u> Date/Time Completed: <u>5/9/2025</u> Depth to Saturated Zone: <u>---</u> Sample # Prefix: <u>1960250506-B2(1-3)&(5-7)</u>

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO- LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0	N/A		0.0'-1.5'	NO RECOVERY	ND	NR			
1.5			1.5'-2.0'	Topsoil	ND	TS			
2			2.0'-2.5'	SAND, F-M, And SILT, some clay, light – dark brown, no odor.	ND	ML	-B2 1335	1.0-3.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
2.5			2.5'-3.5'	SAND, F-M, And gravel, little clay, some silt, brown, no odor.	ND	SP			
3.5			3.5'-5.0'	SAND, F-M, some gravel, light brown, loose, no odor	ND	SP	-B2 1345	5.0-7.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
5			5.0'-6.5'	SAND, F-M, some silt, trace gravel, moist, brown, no odor.	ND	SM			
6.5			6.5'-8.5'	SAND, F-M, And gravel, packed and hard, red-brown color, no odor.	ND	SP			
8.5			8.5'-10.0'	Drill stuck, cut off.					

BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS Field Instrument = _____ If refusal is encountered, describe all efforts used to confirm. PID/OVM _____ Field Decon: Yes / No / Dedicated Device
2"	Geoprobe	10 feet	

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50%	BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/Native Material <u>0.0</u> To <u>10.0</u> Other _____ To _____
EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor.	
Reviewed by Staff: _____	

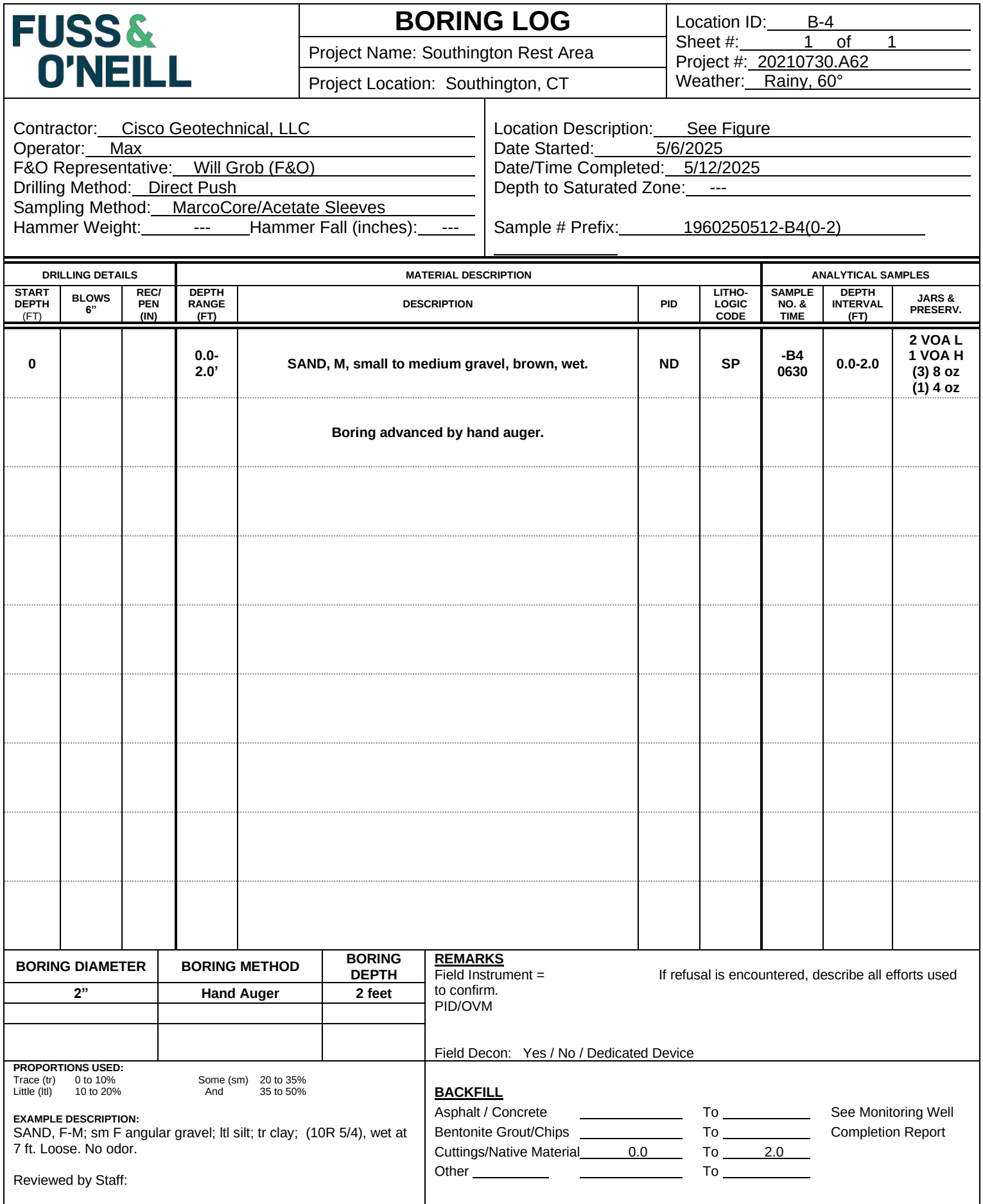
	BORING LOG		Location ID: <u> B-3 </u>	
	Project Name: <u>Southington Rest Area</u>		Sheet #: <u> 1 </u> of <u> 1 </u>	
	Project Location: <u>Southington, CT</u>		Project #: <u>20210730.A62</u> Weather: <u>Rainy, 60°</u>	

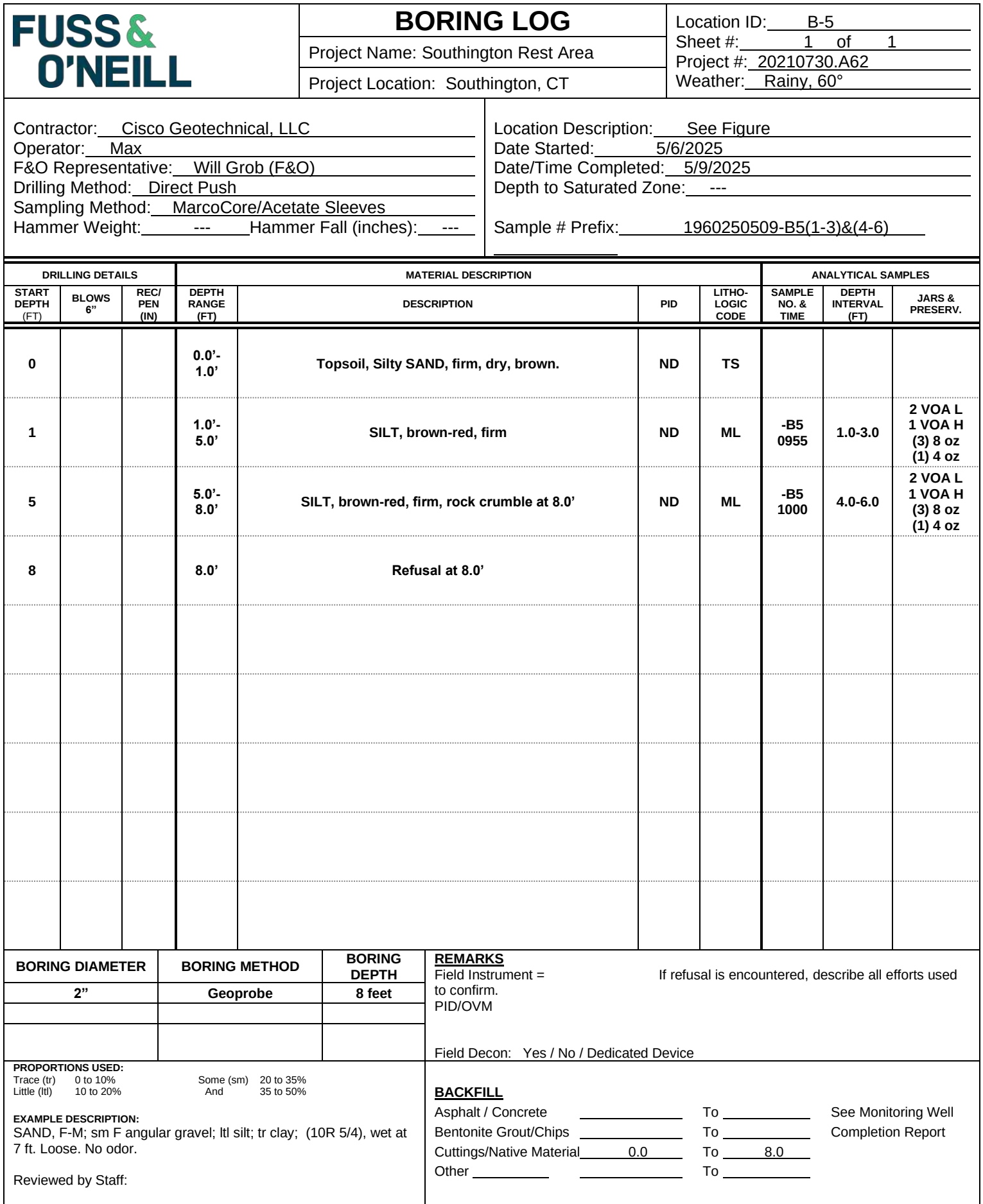
Contractor: <u> Cisco Geotechnical, LLC </u> Operator: <u> Max </u> F&O Representative: <u> Will Grob (F&O) </u> Drilling Method: <u> Direct Push </u> Sampling Method: <u> MarcoCore/Acetate Sleeves </u> Hammer Weight: <u> --- </u> Hammer Fall (inches): <u> --- </u>	Location Description: <u> See Figure </u> Date Started: <u> 5/6/2025 </u> Date/Time Completed: <u> 5/9/2025 </u> Depth to Saturated Zone: <u> --- </u> Sample # Prefix: <u> 1960250506-B3(1-3)&(5-7) </u>

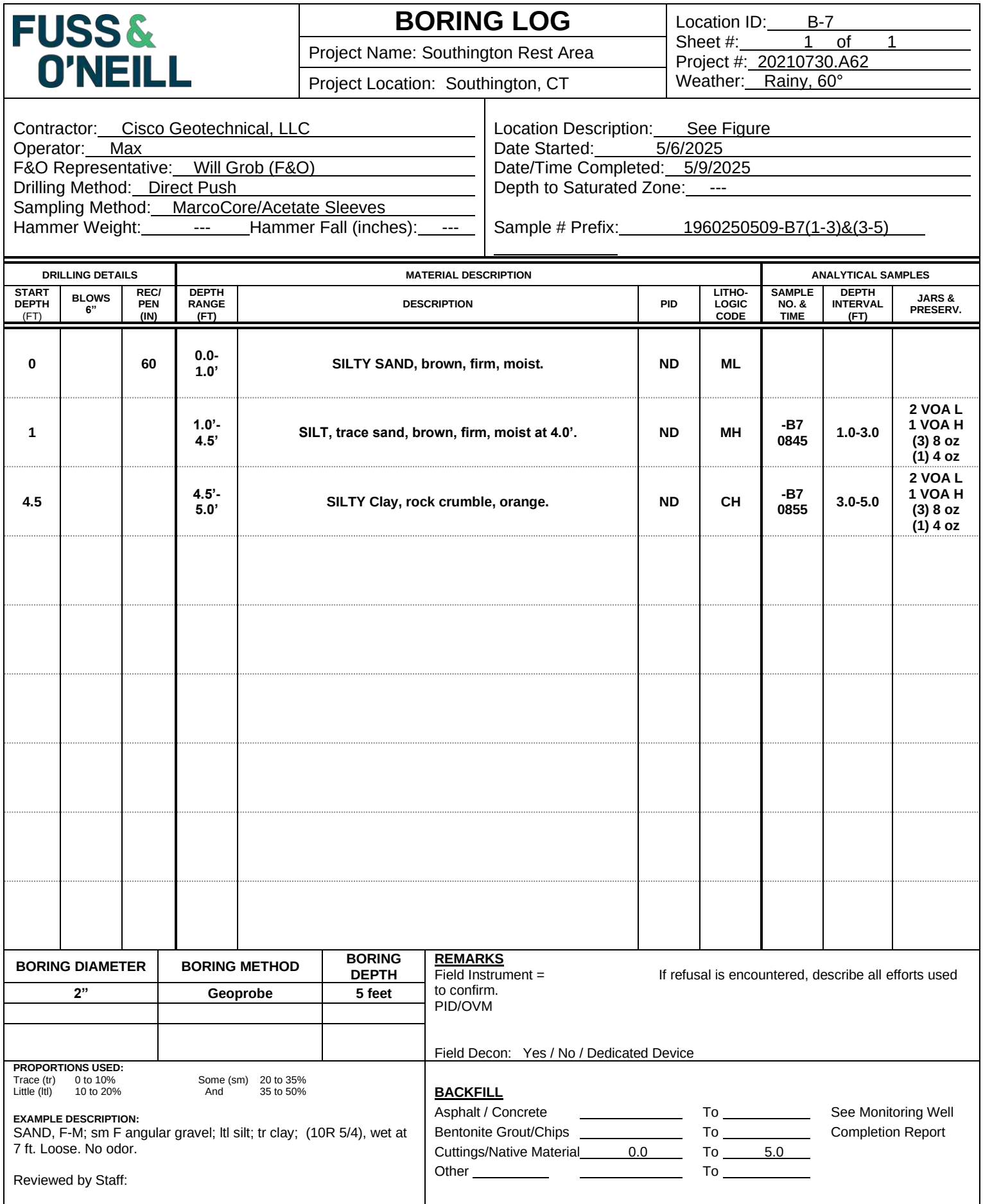
DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO- LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0	N/A		0.0- 2.0'	NO RECOVERY	ND	NR			
2			2.0'- 2.5'	Topsoil/Asphalt	ND	TS/AS			
2.5			2.5'- 4.0'	SAND, F-M, And gravel, rock @ 3.5', trace organics, dark-light brown, no odor.	ND	SP	-B3 1215	1.0-3.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
4			4.0'- 5.0'	SAND, F-M, And SILT, trace clay material, trace gravel, light – dark brown, no odor.	ND	SM			
5			5.0'- 6.5'	SILT, And CLAY, trace gravel, wet, dark brown, no odor.	ND	CL	-B3 1230	5.0-7.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
6.5			6.5'- 8.0'	SILT, And CLAY, trace gravel, some sand (F-M), light – dark brown, no odor.	ND	CL			
8			8.0'- 8.5'	CLAY, trace gravel, some silt, no odor.	ND	CH			
8.5			8.5'- 10.0'	SAND, F-M, And gravel, rock @ 9.5', light brown, no odor.	ND	SP			

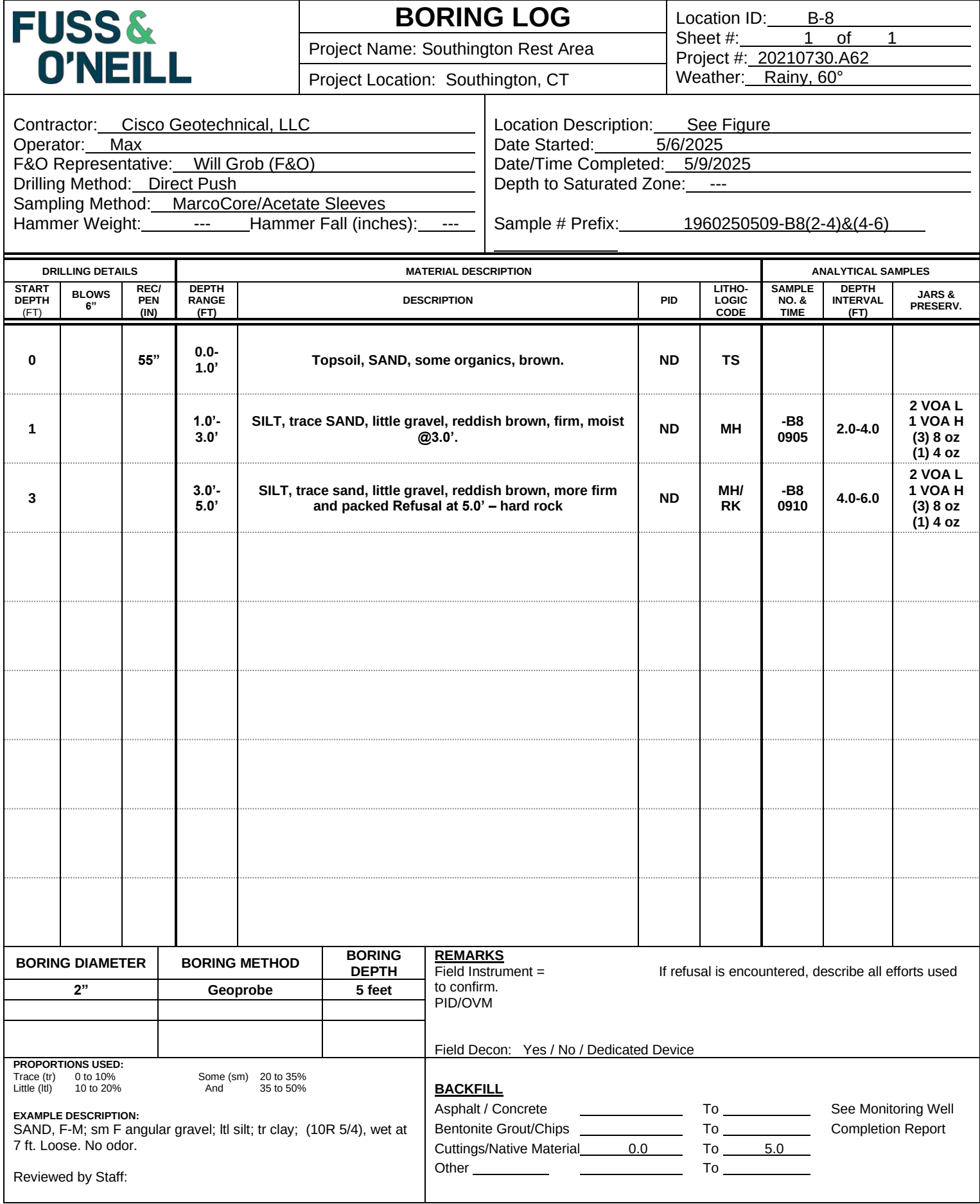
BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS Field Instrument = _____ If refusal is encountered, describe all efforts used to confirm. PID/OVM _____ Field Decon: Yes / No / Dedicated Device
2"	Geoprobe	10 feet	

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50%	BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/Native Material <u> 0.0 </u> To <u> 10.0 </u> Other _____ To _____
EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff: _____	









	BORING LOG		Location ID: <u>B-9</u>	
	Project Name: <u>Southington Rest Area</u>		Sheet #: <u>1</u> of <u>1</u>	
	Project Location: <u>Southington, CT</u>		Project #: <u>20210730.A62</u> Weather: <u>Rainy, 60°</u>	

Contractor: <u>Cisco Geotechnical, LLC</u> Operator: <u>Max</u> F&O Representative: <u>Will Grob (F&O)</u> Drilling Method: <u>Direct Push</u> Sampling Method: <u>MarcoCore/Acetate Sleeves</u> Hammer Weight: <u>---</u> Hammer Fall (inches): <u>---</u>	Location Description: <u>See Figure</u> Date Started: <u>5/6/2025</u> Date/Time Completed: <u>5/9/2025</u> Depth to Saturated Zone: <u>---</u> Sample # Prefix: <u>1960250509-B9(1-3)&(5-7)</u>

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO- LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0			0.0'-1.5'	Topsoil with Silty SAND, brown.	ND	TS			
1.5			1.5'-3.0'	Silty SAND, red/brown, firm, damp	ND	SM	-B9 0935	1.0-3.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
3			3.0'-3.5'	Silty SAND, red/brown, firm, crumbly, dry.	ND	SM			
3.5			3.5'-5.0'	Silty SAND, red/brown, firm, crumbly, dry.	ND	SM	-B9 0940	5.0-7.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
5			5.0'-7.5'	ROCK, refusal at 7.5'	ND	RK			

BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS Field Instrument = _____ If refusal is encountered, describe all efforts used to confirm. PID/OVM _____ Field Decon: Yes / No / Dedicated Device
2"	Geoprobe	7.5 feet	

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50% EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff: _____	BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/Native Material <u>0.0</u> To <u>7.5</u> Other _____ To _____

	BORING LOG		Location ID: <u>B-10</u>	
	Project Name: <u>Southington Rest Area</u>		Sheet #: <u>1</u> of <u>1</u>	
	Project Location: <u>Southington, CT</u>		Project #: <u>20210730.A62</u> Weather: <u>Rainy, 60°</u>	

Contractor: <u>Cisco Geotechnical, LLC</u> Operator: <u>Max</u> F&O Representative: <u>Will Grob (F&O)</u> Drilling Method: <u>Direct Push</u> Sampling Method: <u>MarcoCore/Acetate Sleeves</u> Hammer Weight: <u>---</u> Hammer Fall (inches): <u>---</u>	Location Description: <u>See Figure</u> Date Started: <u>5/6/2025</u> Date/Time Completed: <u>5/9/2025</u> Depth to Saturated Zone: <u>---</u> Sample # Prefix: <u>1960250506-B10(3-5)&(7-9)</u>

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO- LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0			0.0'-1.0'	NO RECOVERY	ND	NR			
1			1.0'-2.5'	Asphalt	ND	AS			
2.5			2.5'-5.0'	SAND, F-M, trace gravel, light brown, no odor.	ND	SP	-B10 0859	3.0-5.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
5			5.0'-6.5'	SAND, F-M, some gravel, light-dark brown, wet @6.5', no odor.	ND	SP			
6.5			6.5'-7.5'	SAND, coarse, some gravel, darker layer @ 7.0', no odor.	ND	SP	-B10 0920	7.0-9.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
7.5			7.5'-9.0'	SAND, F-M, little silt, trace gravel, light brown, no odor.	ND	SM			
9			9.0'-10.0'	SAND, F-M, some silt, trace gravel, wet, light brown, no odor.	ND	SM			

BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS Field Instrument = _____ If refusal is encountered, describe all efforts used to confirm. PID/OVM _____ Field Decon: Yes / No / Dedicated Device
2"	Geoprobe	10 feet	

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50%	BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/Native Material <u>0.0</u> To <u>10.0</u> Other _____ To _____
EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff: _____	

	BORING LOG		Location ID: <u>B-11</u>	
	Project Name: <u>Southington Rest Area</u>		Sheet #: <u>1</u> of <u>1</u>	
	Project Location: <u>Southington, CT</u>		Project #: <u>20210730.A62</u> Weather: <u>Rainy, 60°</u>	

Contractor: <u>Cisco Geotechnical, LLC</u> Operator: <u>Max</u> F&O Representative: <u>Will Grob (F&O)</u> Drilling Method: <u>Direct Push</u> Sampling Method: <u>MarcoCore/Acetate Sleeves</u> Hammer Weight: <u>---</u> Hammer Fall (inches): <u>---</u>	Location Description: <u>See Figure</u> Date Started: <u>5/6/2025</u> Date/Time Completed: <u>5/9/2025</u> Depth to Saturated Zone: <u>---</u> Sample # Prefix: <u>1960250506-B11(1-3)&(5-7)</u>

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO- LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0			0.0'-1.5'	NO RECOVERY	ND	NR			
1.5			1.5'-2.0'	Topsoil	ND	TS			
2			2.0'-3.0'	SAND, F-M, some gravel, trace organics, trace silt, moist, light brown, no odor.	ND	SP	-B11 1405	1.0-3.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
3			3.0'-5.0'	SAND, F-M, And gravel, some SILT, moist, rock at 4.5', no odor.	ND	SP/SM			
5			5.0'-7.0'	SAND, F-M, And SILT, trace clay, trace organics, light-dark brown, no odor.	ND	SM			
7			7.0'-10.0'	SAND, F-M, And gravel, some SILT, rock @ 7.25' and 9.25', light-dark brown, no odor.	ND	SP	-B11 1415	5.0-7.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz

BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS Field Instrument = _____ If refusal is encountered, describe all efforts used to confirm. PID/OVM _____ Field Decon: Yes / No / Dedicated Device
2"	Geoprobe	10 feet	

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50% EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff: _____	BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/Native Material <u>0.0</u> To <u>10.0</u> Other _____ To _____

	BORING LOG		Location ID: <u>B-12</u>	
	Project Name: <u>Southington Rest Area</u>		Sheet #: <u>1</u> of <u>1</u>	
	Project Location: <u>Southington, CT</u>		Project #: <u>20210730.A62</u> Weather: <u>Rainy, 60°</u>	

Contractor: <u>Cisco Geotechnical, LLC</u> Operator: <u>Max</u> F&O Representative: <u>Will Grob (F&O)</u> Drilling Method: <u>Direct Push</u> Sampling Method: <u>MarcoCore/Acetate Sleeves</u> Hammer Weight: <u>---</u> Hammer Fall (inches): <u>---</u>	Location Description: <u>See Figure</u> Date Started: <u>5/6/2025</u> Date/Time Completed: <u>5/9/2025</u> Depth to Saturated Zone: <u>---</u> Sample # Prefix: <u>1960250506-B12(2-4)&(4-6)</u>

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO- LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0			0.0'-2.0'	Asphalt	ND	AS			
			2.0'-2.5'	SAND, Coarse, And gravel, light brown, no odor.	ND	SP			
			2.5'-3.0'	SAND, F-M, And SILT, trace gravel, light brown, no odor.	ND	SM	-B12 1030	2.0-4.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
			3.0'-4.0'	SAND, F-M, some gravel, trace organics, dark brown, no odor.	ND	SP			
			4.0'-5.0'	SAND, F-M, some gravel, some SILT, light brown, no odor.	ND	SP			
5			5.0'-6.0'	SAND, And gravel, large rock, light brown, no odor.	ND	SP	-B12 1035	4.0-6.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
			6.0'-9.0'	SAND, F-M, trace gravel, some silt, light brown, no odor.	ND	SM			
			9.0'-10.0'	SAND, F-M, 5.0" layer of small gravel, brown, wet, no odor.	ND	SP			

BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS Field Instrument = _____ If refusal is encountered, describe all efforts used to confirm. PID/OVM _____ Field Decon: Yes / No / Dedicated Device
2"	Geoprobe	10 feet	

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50%	BACKFILL Asphalt / Concrete _____ 0.0 To _____ 2.0 See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/Native Material _____ 2.0 To _____ 10.0 Other _____ To _____
EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor.	
Reviewed by Staff: _____	

	BORING LOG		Location ID: <u>B-13</u>	
	Project Name: <u>Southington Rest Area</u>		Sheet #: <u>1</u> of <u>1</u>	
	Project Location: <u>Southington, CT</u>		Project #: <u>20210730.A62</u> Weather: <u>Rainy, 60°</u>	

Contractor: <u>Cisco Geotechnical, LLC</u> Operator: <u>Max</u> F&O Representative: <u>Will Grob (F&O)</u> Drilling Method: <u>Direct Push</u> Sampling Method: <u>MarcoCore/Acetate Sleeves</u> Hammer Weight: <u>---</u> Hammer Fall (inches): <u>---</u>	Location Description: <u>See Figure</u> Date Started: <u>5/6/2025</u> Date/Time Completed: <u>5/9/2025</u> Depth to Saturated Zone: <u>---</u> Sample # Prefix: <u>1960250506-B13(2-4)&(4-6)</u>

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO- LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0			0.0'-1.5'	NO RECOVERY	ND	NR			
			1.5'-2.0'	Topsoil	ND	TS			
			2.0'-2.5'	SAND, F-M, some gravel, little SILT, dark brown to red color, no odor.	ND	SP	-B13 1145	2.0-4.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
			2.5'-3.5'	SAND, F-M, some SILT, trace gravel, light brown, moist, no odor.	ND	SM			
			3.5'-5.0'	SAND, F-M, coarse, And gravel, dark brown, no odor.	ND	SP			
5			5.0'-7.0'	SAND, F-M, coarse, And gravel, dark brown, rock @ 6.0', no odor.	ND	SP	-B13 1200	4.0-6.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
			7.0'-10.0'	SAND, F-M, trace gravel, And SILT, brown, moist, no odor.	ND	SM			

BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS Field Instrument = _____ If refusal is encountered, describe all efforts used to confirm. PID/OVM _____ Field Decon: Yes / No / Dedicated Device
2"	Geoprobe	10 feet	

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50% EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff: _____	BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/Native Material <u>0.0</u> To <u>10.0</u> Other _____ To _____

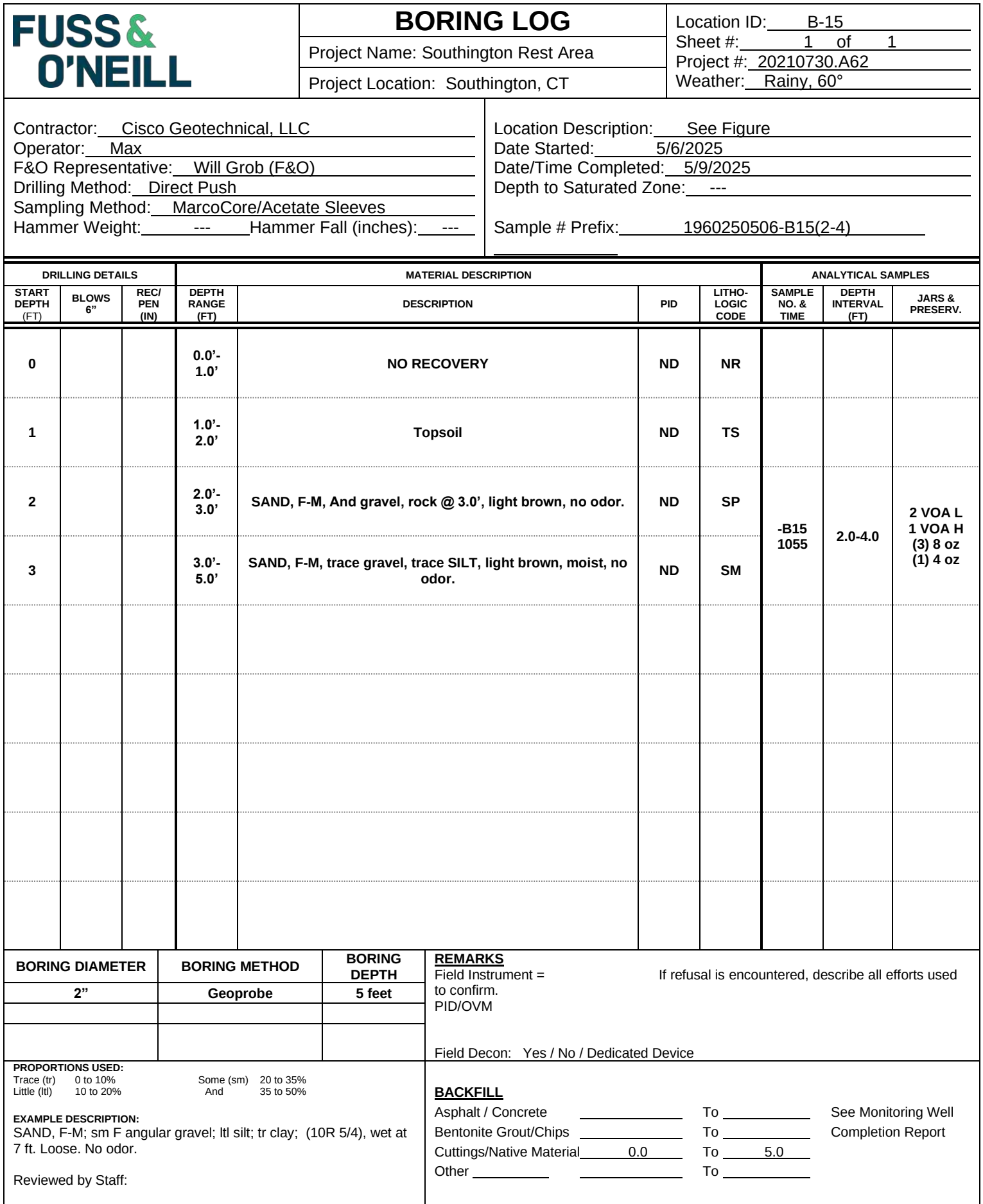
	BORING LOG		Location ID: <u>B-14</u>	
	Project Name: <u>Southington Rest Area</u>		Sheet #: <u>1</u> of <u>1</u>	
	Project Location: <u>Southington, CT</u>		Project #: <u>20210730.A62</u> Weather: <u>Rainy, 60°</u>	

Contractor: <u>Cisco Geotechnical, LLC</u> Operator: <u>Max</u> F&O Representative: <u>Will Grob (F&O)</u> Drilling Method: <u>Direct Push</u> Sampling Method: <u>MarcoCore/Acetate Sleeves</u> Hammer Weight: <u>---</u> Hammer Fall (inches): <u>---</u>	Location Description: <u>See Figure</u> Date Started: <u>5/6/2025</u> Date/Time Completed: <u>5/9/2025</u> Depth to Saturated Zone: <u>---</u> Sample # Prefix: <u>1960250506-B14(1-3)&(5-7)</u>

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO- LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0			0.0'-2.0'	NO RECOVERY	ND	NR			
			2.0'-2.5'	Topsoil	ND	TS			
			2.5'-3.5'	SAND, F-M, trace gravel, light-dark brown, no odor.	ND	SP	-B14 1110	1.0-3.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
			3.5'-4.0'	SAND, F-M, some SILT, light brown, no odor.	ND	SM			
			4.0'-5.0'	SAND, F-M, And gravel, some SILT, light-dark brown, no odor.	ND	SP	-B14 1113	5.0-7.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
5			5.0'-9.0'	SAND, F-M, small and large gravel, sludge, no odor.	ND	SP			
			9.0'-10.0'	NO RECOVERY	ND	NR			

BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS Field Instrument = _____ If refusal is encountered, describe all efforts used to confirm. PID/OVM _____ Field Decon: Yes / No / Dedicated Device
2"	Geoprobe	10 feet	

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50% EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff: _____	BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/Native Material <u>0.0</u> To <u>10.0</u> Other _____ To _____



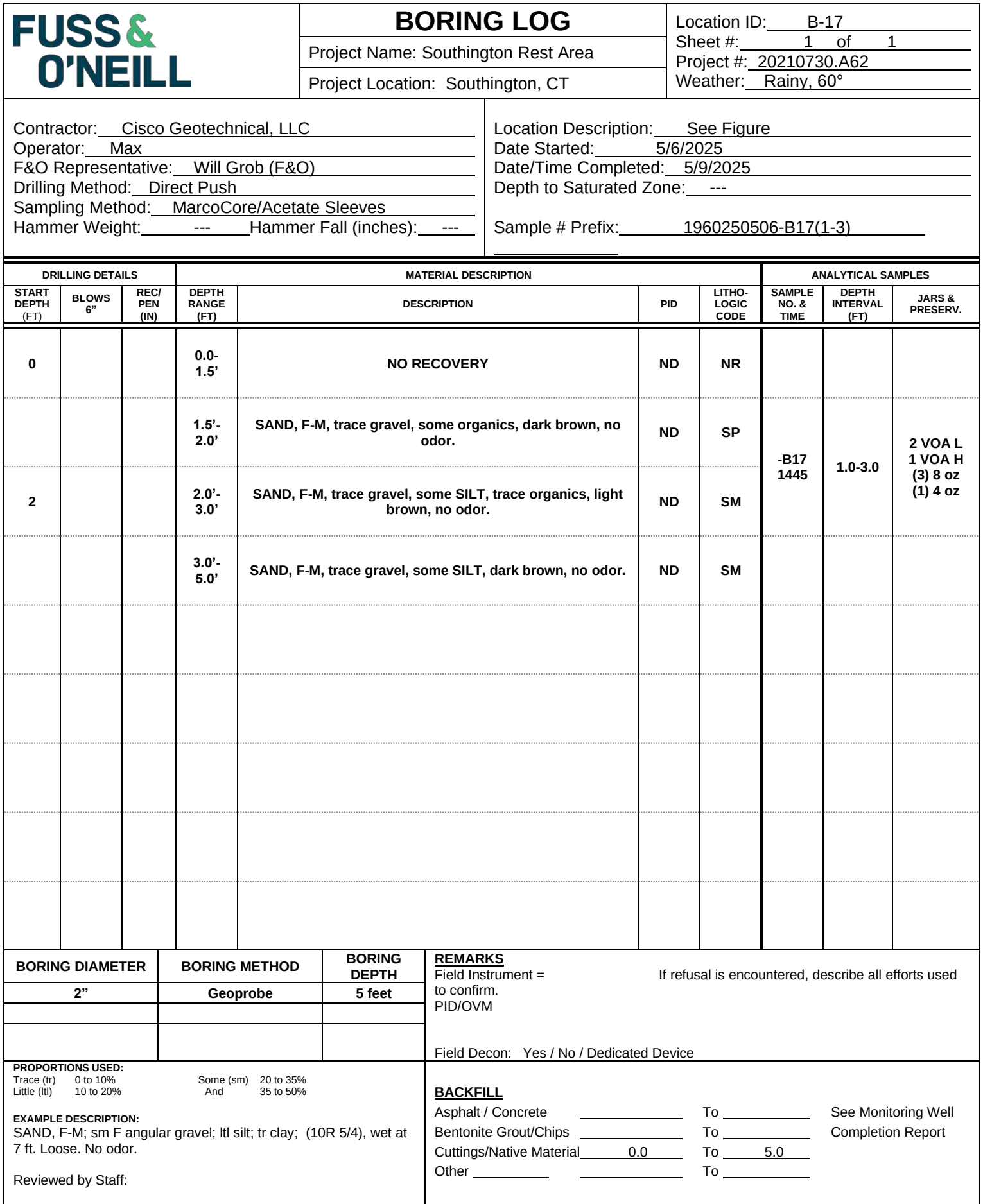
	BORING LOG		Location ID: <u> B-16 </u>	
	Project Name: <u>Southington Rest Area</u>		Sheet #: <u> 1 </u> of <u> 1 </u>	
	Project Location: <u>Southington, CT</u>		Project #: <u>20210730.A62</u> Weather: <u>Rainy, 60°</u>	

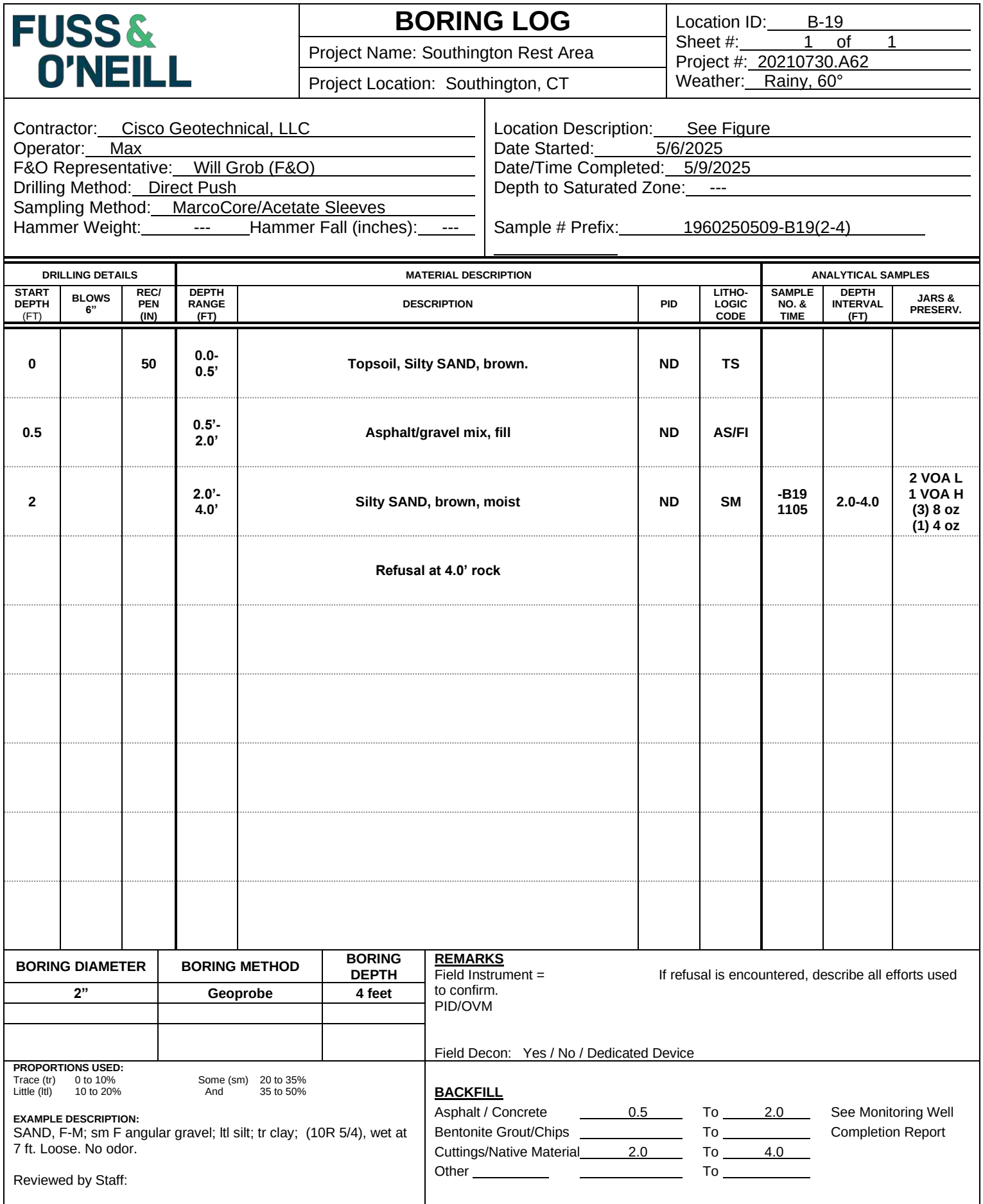
Contractor: <u> Cisco Geotechnical, LLC </u> Operator: <u> Max </u> F&O Representative: <u> Will Grob (F&O) </u> Drilling Method: <u> Direct Push </u> Sampling Method: <u> MarcoCore/Acetate Sleeves </u> Hammer Weight: <u> --- </u> Hammer Fall (inches): <u> --- </u>	Location Description: <u> See Figure </u> Date Started: <u> 5/6/2025 </u> Date/Time Completed: <u> 5/9/2025 </u> Depth to Saturated Zone: <u> --- </u> Sample # Prefix: <u> 1960250506-B16(2-4)&(4-6) </u>

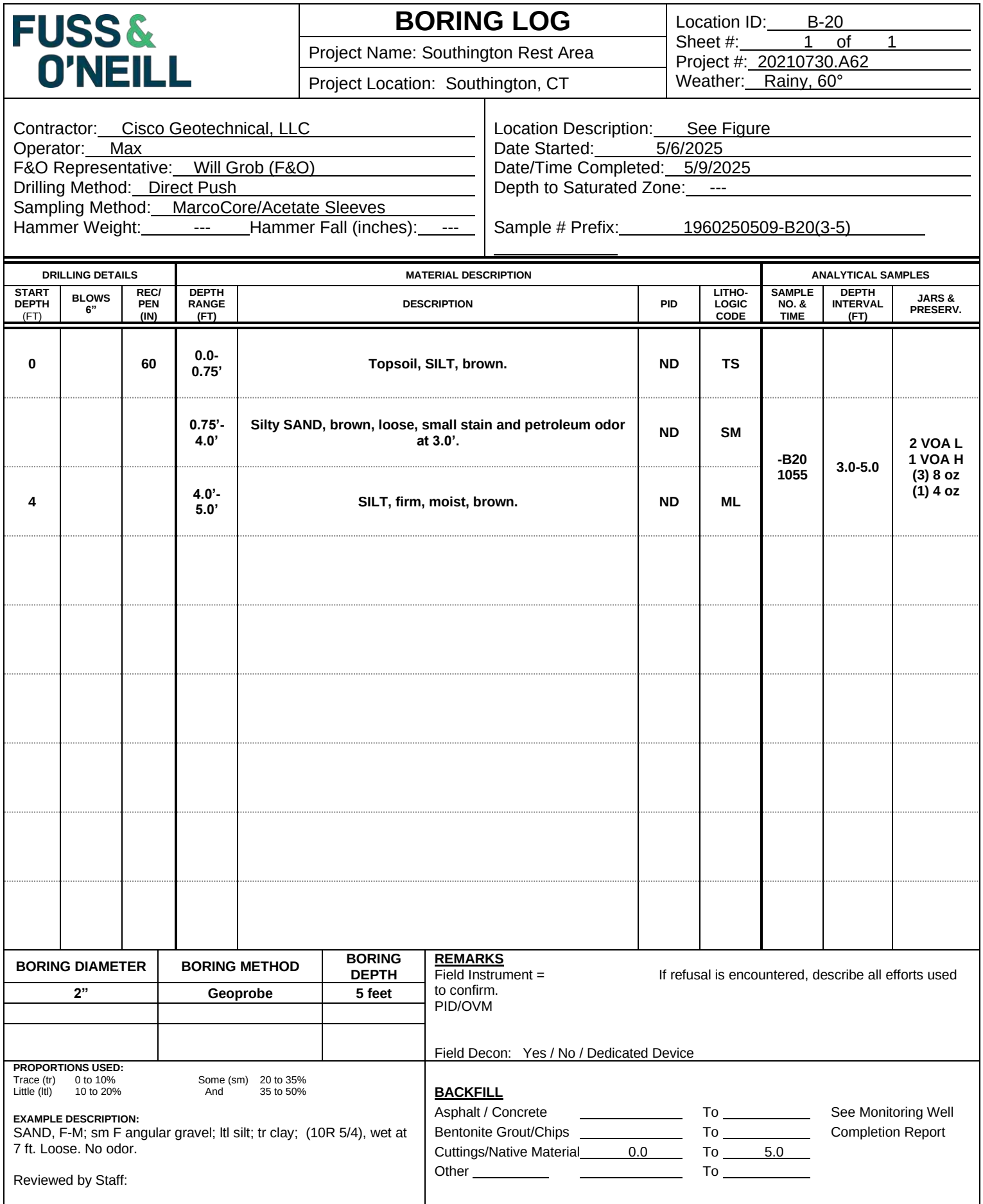
DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO- LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0			0.0'-1.5'	NO RECOVERY	ND	NR			
			1.5'-2.0'	Topsoil	ND	TS			
			2.0'-3.0'	SAND, F-M, And SILT, trace clay, some gravel, dark brown, no odor.	ND	SM	-B16 1425	2.0-4.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
			3.0'-5.0'	SAND, F-M, And SILT, little clay, light brown, no odor.	ND	SM	-B16 1435	4.0-6.0	2 VOA L 1 VOA H (3) 8 oz (1) 4 oz
5			5.0'-6.0'	No Recovery	ND	NR			
			6.0'-7.0'	SAND, F-M, And SILT, little clay, trace gravel, dark-light brown, no odor.	ND	SM			
			7.0'-9.0'	SAND, F-M, some gravel, compact, light brown, no odor.	ND	SP			
			9.0'-10.0'	SAND, F-M, some gravel, loose, brittle, light brown, no odor.	ND	SP			

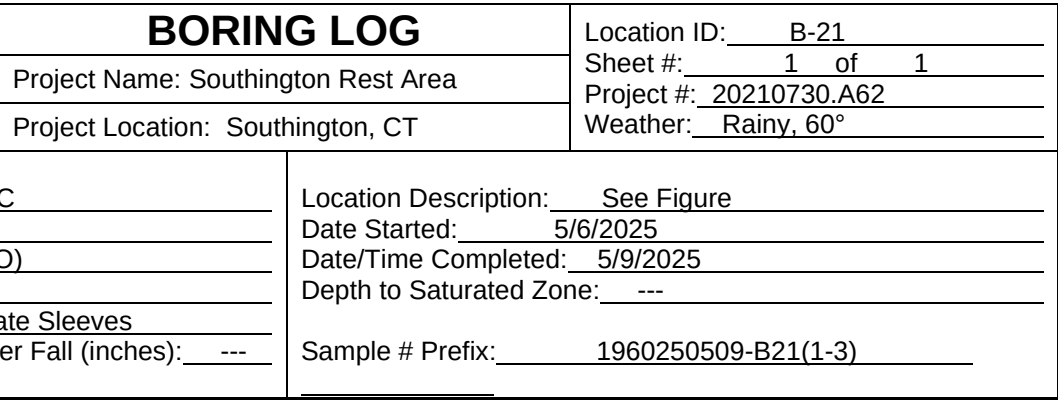
BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS Field Instrument = _____ If refusal is encountered, describe all efforts used to confirm. PID/OVM _____ Field Decon: Yes / No / Dedicated Device
2"	Geoprobe	10 feet	

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50%	BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/Native Material <u> 0.0 </u> To <u> 10.0 </u> Other _____ To _____
EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff: _____	







[illegible]

BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS Field Instrument = _____ If refusal is encountered, describe all efforts used to confirm. PID/OVM _____ Field Decon: Yes / No / Dedicated Device _____
2"	Geoprobe	5 feet	
PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50% EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff: _____			BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/Native Material <u>0.0</u> To <u>5.0</u> Other _____ To _____

Appendix B

Laboratory Analytical Reports



Tuesday, May 27, 2025

Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Project ID: DOT SOUTHTON REST AREA
SDG ID: GCT25432
Sample ID#s: CT25432 - CT25451

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

May 27, 2025

SDG I.D.: GCT25432

Volatile 8260 analysis:

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, these compounds are analyzed by GC/ECD to achieve this criteria.

The regulatory hold time for Filtration is 24 hours. Filtration was performed in the laboratory and may be considered outside of hold-time.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

May 27, 2025

SDG I.D.: GCT25432

Project ID: DOT SOUTHINGTON REST AREA

Client Id	Lab Id	Matrix	Col Date
1960250509-B-9 (1-3)	CT25432	SOIL	05/09/25 9:35
1960250509-B-9 (3-5)	CT25433	SOIL	05/09/25 9:40
1960250509-B-7 (1-3)	CT25434	SOIL	05/09/25 8:45
1960250509-B-7 (3-5)	CT25435	SOIL	05/09/25 8:55
1960250512-B-4 (0-2)	CT25436	SOIL	05/12/25 6:30
1960250512-MW-4	CT25437	GROUND WATER	05/12/25 6:50
1960250512-MW-7	CT25438	GROUND WATER	05/12/25 7:15
1960250509-TB-SOIL LL	CT25439	SOIL	05/09/25 7:00
1960250512-TB-GW	CT25440	WATER	05/12/25 7:00
1960250509-TB-SOIL HL	CT25441	SOIL	05/09/25 7:00
1960250509-B-10 (1-3)	CT25442	SOIL	05/09/25 11:25
1960250509-B-19 (2-4)	CT25443	SOIL	05/09/25 11:05
1960250509-B-20 (3-5)	CT25444	SOIL	05/09/25 10:55
1960250509-B-21 (1-3)	CT25445	SOIL	05/09/25 10:45
1960250509-B-6 (2-4)	CT25446	SOIL	05/09/25 10:15
1960250509-B-6 (4-6)	CT25447	SOIL	05/09/25 10:20
1960250509-B-5 (1-3)	CT25448	SOIL	05/09/25 9:55
1960250509-B-5 (4-6)	CT25449	SOIL	05/09/25 10:00
1960250509-B-8 (1-3)	CT25450	SOIL	05/09/25 9:05
1960250509-B-8 (3-5)	CT25451	SOIL	05/09/25 9:10



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

9:35
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25432

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-9 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	2.76	0.81	mg/Kg	1	05/13/25	TH	SW6010D
Barium	193	0.41	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	1.16	0.32	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.41	0.41	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	26.5	0.41	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	15.4	0.41	mg/Kg	1	05/13/25	TH	SW6010D
Lead	16.6	0.41	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 4.1	4.1	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.192	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	0.012	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/14/25	TH	SW6010D
SPLP Zinc	0.038	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.45	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.046	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 3.7	3.7	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	34.1	0.41	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	40.0	0.8	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	88		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	739	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	6.74	1.00	pH Units	1	05/13/25 00:14	ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	S/Z/U	SW3546
Soil Extraction for Herbicide	Completed				05/17/25	Y/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Z/U	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Z/U	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	05/19/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
Dichloroprop	ND	280	ug/Kg	10	05/19/25	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	05/19/25	JRB	SW8151A
MCPA	ND	42000	ug/Kg	10	05/19/25	JRB	SW8151A
MCPP	ND	42000	ug/Kg	10	05/19/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	88		%	10	05/19/25	JRB	30 - 150 %
% DCAA (Confirmation)	86		%	10	05/19/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	83		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	77		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	73		%	10	05/21/25	SC	30 - 150 %
% DCBP (Confirmation)	75		%	10	05/21/25	SC	30 - 150 %
% TCMX	82		%	10	05/21/25	SC	30 - 150 %
% TCMX (Confirmation)	75		%	10	05/21/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	05/21/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/21/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	05/21/25	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	05/21/25	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	05/21/25	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	05/21/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/21/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/21/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/21/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	59		%	2	05/21/25	AW	30 - 150 %
% DCBP (Confirmation)	42		%	2	05/21/25	AW	30 - 150 %
% TCMX	62		%	2	05/21/25	AW	30 - 150 %
% TCMX (Confirmation)	69		%	2	05/21/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.34	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	17	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	17	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	170	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	2.0	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	20	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	6.7	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	6.7	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	6.7	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	6.7	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	6.7	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	100		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	102		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	67	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	3.4	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	750	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	380	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	380	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	54		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	52		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	50		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	51		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	51		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	50		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Corrosivity is based solely on the pH analysis performed above.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

9:40
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25433

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-9 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	5.03	0.75	mg/Kg	1	05/13/25	TH	SW6010D
Barium	154	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	1.50	0.30	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.37	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	23.7	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	19.2	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Lead	20.8	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.027	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/14/25	TH	SW6010D
SPLP Zinc	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.40	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.060	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 3.4	3.4	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	38.4	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	50.8	0.7	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	94		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	89	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	6.97	1.00	pH Units	1	05/13/25 00:14	ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	S/Z/U	SW3546
Soil Extraction for Herbicide	Completed				05/17/25	Y/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Z/U	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Z/U	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	130	ug/Kg	10	05/19/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	130	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-D	ND	260	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-DB	ND	2600	ug/Kg	10	05/19/25	JRB	SW8151A
Dalapon	ND	130	ug/Kg	10	05/19/25	JRB	SW8151A
Dicamba	ND	130	ug/Kg	10	05/19/25	JRB	SW8151A
Dichloroprop	ND	260	ug/Kg	10	05/19/25	JRB	SW8151A
Dinoseb	ND	260	ug/Kg	10	05/19/25	JRB	SW8151A
MCPA	ND	39000	ug/Kg	10	05/19/25	JRB	SW8151A
MCP	ND	39000	ug/Kg	10	05/19/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	85		%	10	05/19/25	JRB	30 - 150 %
% DCAA (Confirmation)	82		%	10	05/19/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	59		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	63		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	75		%	10	05/21/25	SC	30 - 150 %
% DCBP (Confirmation)	78		%	10	05/21/25	SC	30 - 150 %
% TCMX	76		%	10	05/21/25	SC	30 - 150 %
% TCMX (Confirmation)	76		%	10	05/21/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
a-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Alachlor	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Aldrin	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
b-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Chlordane	ND	35	ug/Kg	2	05/21/25	AW	SW8081B
d-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Endrin	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor epoxide	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Methoxychlor	ND	35	ug/Kg	2	05/21/25	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/21/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	64		%	2	05/21/25	AW	30 - 150 %
% DCBP (Confirmation)	46		%	2	05/21/25	AW	30 - 150 %
% TCMX	58		%	2	05/21/25	AW	30 - 150 %
% TCMX (Confirmation)	66		%	2	05/21/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	1.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.31	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	15	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	15	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	150	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	1.9	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	19	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	6.2	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	6.2	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	6.2	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	6.2	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	6.2	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	102		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	62	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	3.1	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	690	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	240	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	63		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	59		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	58		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	60		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	60		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	58		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

8:45
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25434

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-7 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.44	0.44	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	1.15	0.87	mg/Kg	1	05/13/25	TH	SW6010D
Barium	82.6	0.44	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	0.46	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.44	0.44	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	16.0	0.44	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.04	0.04	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	9.83	0.44	mg/Kg	1	05/13/25	TH	SW6010D
Lead	6.65	0.44	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 4.4	4.4	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.016	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.026	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.45	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.05	0.05	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.080	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 3.9	3.9	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	31.4	0.44	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	35.9	0.9	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	70		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	7	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	5.86	1.00	pH Units	1	05/13/25 00:14	ER	SW846 9045D
Reactivity Cyanide	< 7	7	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	S/Z/U	SW3546
Soil Extraction for Herbicide	Completed				05/17/25	Y/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Z/U	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Z/U	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	180	ug/Kg	10	05/19/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	180	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-D	ND	350	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-DB	ND	3500	ug/Kg	10	05/19/25	JRB	SW8151A
Dalapon	ND	180	ug/Kg	10	05/19/25	JRB	SW8151A
Dicamba	ND	180	ug/Kg	10	05/19/25	JRB	SW8151A
Dichloroprop	ND	350	ug/Kg	10	05/19/25	JRB	SW8151A
Dinoseb	ND	350	ug/Kg	10	05/19/25	JRB	SW8151A
MCPA	ND	53000	ug/Kg	10	05/19/25	JRB	SW8151A
MCP	ND	53000	ug/Kg	10	05/19/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	77		%	10	05/19/25	JRB	30 - 150 %
% DCAA (Confirmation)	74		%	10	05/19/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	71	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	65		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	62		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	470	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1221	ND	470	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1232	ND	470	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1242	ND	470	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1248	ND	470	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1254	ND	470	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1260	ND	470	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1262	ND	470	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1268	ND	470	ug/Kg	10	05/21/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	83		%	10	05/21/25	SC	30 - 150 %
% DCBP (Confirmation)	84		%	10	05/21/25	SC	30 - 150 %
% TCMX	78		%	10	05/21/25	SC	30 - 150 %
% TCMX (Confirmation)	79		%	10	05/21/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.9	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDE	ND	1.9	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDT	ND	1.9	ug/Kg	2	05/21/25	AW	SW8081B
a-BHC	ND	1.9	ug/Kg	2	05/21/25	AW	SW8081B
Alachlor	ND	9.3	ug/Kg	2	05/21/25	AW	SW8081B
Aldrin	ND	1.9	ug/Kg	2	05/21/25	AW	SW8081B
b-BHC	ND	1.9	ug/Kg	2	05/21/25	AW	SW8081B
Chlordane	ND	47	ug/Kg	2	05/21/25	AW	SW8081B
d-BHC	ND	1.9	ug/Kg	2	05/21/25	AW	SW8081B
Dieldrin	ND	4.7	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan I	ND	9.3	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan II	ND	9.3	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan sulfate	ND	9.3	ug/Kg	2	05/21/25	AW	SW8081B
Endrin	ND	9.3	ug/Kg	2	05/21/25	AW	SW8081B
Endrin aldehyde	ND	9.3	ug/Kg	2	05/21/25	AW	SW8081B
Endrin ketone	ND	9.3	ug/Kg	2	05/21/25	AW	SW8081B
g-BHC	ND	1.9	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor	ND	9.3	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor epoxide	ND	9.3	ug/Kg	2	05/21/25	AW	SW8081B
Methoxychlor	ND	47	ug/Kg	2	05/21/25	AW	SW8081B
Toxaphene	ND	190	ug/Kg	2	05/21/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	63		%	2	05/21/25	AW	30 - 150 %
% DCBP (Confirmation)	50		%	2	05/21/25	AW	30 - 150 %
% TCMX	59		%	2	05/21/25	AW	30 - 150 %
% TCMX (Confirmation)	71		%	2	05/21/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.4	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.39	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	20	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	20	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	200	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	2.4	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	24	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	7.9	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	7.9	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	7.9	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	7.9	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	7.9	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	96		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	101		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	79	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	3.9	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	480	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	480	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	950	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	480	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	480	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	480	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	480	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	330	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	77		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	66		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	63		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	64		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	63		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	64		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

8:55
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25435

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-7 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	1.48	0.78	mg/Kg	1	05/13/25	TH	SW6010D
Barium	119	0.39	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	0.50	0.31	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.39	0.39	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	12.9	0.39	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	8.07	0.39	mg/Kg	1	05/13/25	TH	SW6010D
Lead	6.18	0.39	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.511	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	0.016	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	0.018	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.035	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.73	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.067	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 3.5	3.5	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	48.3	0.39	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	22.3	0.8	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	87		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	8	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	6.28	1.00	pH Units	1	05/13/25 00:04	ER	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	S/Z/U	SW3546
Soil Extraction for Herbicide	Completed				05/17/25	Y/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Z/U	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Z/U	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	05/19/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
Dichloroprop	ND	280	ug/Kg	10	05/19/25	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	05/19/25	JRB	SW8151A
MCPA	ND	42000	ug/Kg	10	05/19/25	JRB	SW8151A
MCP	ND	42000	ug/Kg	10	05/19/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	53		%	10	05/19/25	JRB	30 - 150 %
% DCAA (Confirmation)	53		%	10	05/19/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	61		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	63		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	05/21/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	82		%	10	05/21/25	SC	30 - 150 %
% DCBP (Confirmation)	83		%	10	05/21/25	SC	30 - 150 %
% TCMX	77		%	10	05/21/25	SC	30 - 150 %
% TCMX (Confirmation)	78		%	10	05/21/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Alachlor	ND	7.5	ug/Kg	2	05/21/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/21/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	05/21/25	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	05/21/25	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	05/21/25	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	05/21/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	05/21/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/21/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/21/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	60		%	2	05/21/25	AW	30 - 150 %
% DCBP (Confirmation)	44		%	2	05/21/25	AW	30 - 150 %
% TCMX	60		%	2	05/21/25	AW	30 - 150 %
% TCMX (Confirmation)	68		%	2	05/21/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	1.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.32	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	16	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	16	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	160	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	1.9	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	19	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	6.3	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	6.3	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	6.3	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	6.3	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	6.3	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	103		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	63	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	760	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	380	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	380	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	270	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	73		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	62		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	61		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	62		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	61		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	60		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/12/25
05/12/25

Time

6:30
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25436

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250512-B-4 (0-2)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.53	0.53	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	2.9	1.1	mg/Kg	1	05/13/25	TH	SW6010D
Barium	115	0.53	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	0.70	0.42	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.53	0.53	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	19.4	0.53	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	0.04	0.04	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	12.3	0.53	mg/Kg	1	05/13/25	TH	SW6010D
Lead	37.3	0.53	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 5.3	5.3	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 2.1	2.1	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.130	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	0.046	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	0.040	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.081	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.30	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.090	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 4.7	4.7	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	52.2	0.53	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	75.2	1.1	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	67		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	31	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	6.40	1.00	pH Units	1	05/13/25 00:14	ER	SW846 9045D
Reactivity Cyanide	< 7	7	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/12/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	S/Z/U	SW3546
Soil Extraction for Herbicide	Completed				05/17/25	Y/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Z/U	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Z/U	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	180	ug/Kg	10	05/19/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	180	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-D	ND	370	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-DB	ND	3700	ug/Kg	10	05/19/25	JRB	SW8151A
Dalapon	ND	180	ug/Kg	10	05/19/25	JRB	SW8151A
Dicamba	ND	180	ug/Kg	10	05/19/25	JRB	SW8151A
Dichloroprop	ND	370	ug/Kg	10	05/19/25	JRB	SW8151A
Dinoseb	ND	370	ug/Kg	10	05/19/25	JRB	SW8151A
MCPA	ND	55000	ug/Kg	10	05/19/25	JRB	SW8151A
MCP	ND	55000	ug/Kg	10	05/19/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	87		%	10	05/19/25	JRB	30 - 150 %
% DCAA (Confirmation)	86		%	10	05/19/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	74	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	71		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	83		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	480	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1221	ND	480	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1232	ND	480	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1242	ND	480	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1248	ND	480	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1254	ND	480	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1260	ND	480	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1262	ND	480	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1268	ND	480	ug/Kg	10	05/21/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	85		%	10	05/21/25	SC	30 - 150 %
% DCBP (Confirmation)	74		%	10	05/21/25	SC	30 - 150 %
% TCMX	75		%	10	05/21/25	SC	30 - 150 %
% TCMX (Confirmation)	72		%	10	05/21/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.9	ug/Kg	2	05/22/25	AW	SW8081B
4,4' -DDE	ND	1.9	ug/Kg	2	05/22/25	AW	SW8081B
4,4' -DDT	ND	1.9	ug/Kg	2	05/22/25	AW	SW8081B
a-BHC	ND	1.9	ug/Kg	2	05/22/25	AW	SW8081B
Alachlor	ND	9.7	ug/Kg	2	05/22/25	AW	SW8081B
Aldrin	ND	1.9	ug/Kg	2	05/22/25	AW	SW8081B
b-BHC	ND	1.9	ug/Kg	2	05/22/25	AW	SW8081B
Chlordane	ND	48	ug/Kg	2	05/22/25	AW	SW8081B
d-BHC	ND	1.9	ug/Kg	2	05/22/25	AW	SW8081B
Dieldrin	ND	4.8	ug/Kg	2	05/22/25	AW	SW8081B
Endosulfan I	ND	9.7	ug/Kg	2	05/22/25	AW	SW8081B
Endosulfan II	ND	9.7	ug/Kg	2	05/22/25	AW	SW8081B
Endosulfan sulfate	ND	9.7	ug/Kg	2	05/22/25	AW	SW8081B
Endrin	ND	9.7	ug/Kg	2	05/22/25	AW	SW8081B
Endrin aldehyde	ND	9.7	ug/Kg	2	05/22/25	AW	SW8081B
Endrin ketone	ND	9.7	ug/Kg	2	05/22/25	AW	SW8081B
g-BHC	ND	1.9	ug/Kg	2	05/22/25	AW	SW8081B
Heptachlor	ND	9.7	ug/Kg	2	05/22/25	AW	SW8081B
Heptachlor epoxide	ND	9.7	ug/Kg	2	05/22/25	AW	SW8081B
Methoxychlor	ND	48	ug/Kg	2	05/22/25	AW	SW8081B
Toxaphene	ND	190	ug/Kg	2	05/22/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	80		%	2	05/22/25	AW	30 - 150 %
% DCBP (Confirmation)	55		%	2	05/22/25	AW	30 - 150 %
% TCMX	69		%	2	05/22/25	AW	30 - 150 %
% TCMX (Confirmation)	82		%	2	05/22/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.49	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	250	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.9	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	9.9	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.9	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.9	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	9.9	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	99	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	4.9	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	480	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	480	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	970	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	480	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	480	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	480	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	480	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	340	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	70		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	60		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	61		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	66		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	64		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	53		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: GROUND WATER
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/12/25
05/12/25

Time

6:50
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25437

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250512-MW-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/15/25	TH	SW6010D
Arsenic	0.081	0.004	mg/L	1	05/15/25	TH	SW6010D
Barium	5.05	0.002	mg/L	1	05/15/25	TH	SW6010D
Cadmium	0.020	0.001	mg/L	1	05/15/25	TH	SW6010D
Chromium	0.564	0.001	mg/L	1	05/15/25	TH	SW6010D
Copper	0.243	0.005	mg/L	1	05/15/25	TH	SW6010D
Silver (Dissolved)	< 0.001	0.001	mg/L	1	05/14/25	CPP	SW6010D
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	05/14/25	CPP	SW6010D
Barium (Dissolved)	0.156	0.002	mg/L	1	05/14/25	CPP	SW6010D
Cadmium (Dissolved)	< 0.001	0.001	mg/L	1	05/14/25	CPP	SW6010D
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	05/14/25	CPP	SW6010D
Copper (Dissolved)	< 0.005	0.005	mg/L	1	05/14/25	CPP	SW6010D
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	05/16/25	ZT	SW7470A
Nickel (Dissolved)	0.004	0.001	mg/L	1	05/14/25	CPP	SW6010D
Lead (Dissolved)	< 0.002	0.002	mg/L	1	05/14/25	CPP	SW6010D
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	05/14/25	CPP	SW6010D
Zinc (Dissolved)	0.004	0.002	mg/L	1	05/14/25	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	05/16/25	JM	SW7470A
Nickel	0.434	0.001	mg/L	1	05/15/25	TH	SW6010D
Lead	0.299	0.001	mg/L	1	05/15/25	TH	SW6010D
Selenium	< 0.010	0.010	mg/L	1	05/15/25	TH	SW6010D
Zinc	0.945	0.004	mg/L	1	05/15/25	TH	SW6010D
Extraction of ETPH	Completed				05/16/25	L/MQ	SW3510C/SW3520C
Lab Filtration	Completed				05/13/25	AG	0.45um Filter
Mercury Dissolved Digestion	Completed				05/15/25	AK/GW	SW7470A
Mercury Digestion	Completed				05/15/25	AK/GW	SW7470A
Extraction for Herbicide	Completed				05/14/25	CV/MQ	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Extraction	Completed				05/15/25	T/J/J	SW3510C
Extraction for Pest (LDL)	Completed				05/15/25	T/J/J	SW3510C
Semi-Volatile Extraction	Completed				05/15/25	L/MQ	SW3520C
Dissolved Metals Preparation	Completed				05/13/25	AG	SW3005A
Total Metals Digestion	Completed				05/14/25	AG	SW3010A

Chlorinated Herbicides

2,4,5-T	ND	0.28	ug/L	1	05/15/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	0.28	ug/L	1	05/15/25	JRB	SW8151A
2,4-D	ND	0.56	ug/L	1	05/15/25	JRB	SW8151A
2,4-DB	ND	5.6	ug/L	1	05/15/25	JRB	SW8151A
Dalapon	ND	0.28	ug/L	1	05/15/25	JRB	SW8151A
Dicamba	ND	0.28	ug/L	1	05/15/25	JRB	SW8151A
Dichloroprop	ND	0.56	ug/L	1	05/15/25	JRB	SW8151A
Dinoseb	ND	0.56	ug/L	1	05/15/25	JRB	SW8151A
MCPA	ND	83	ug/L	1	05/15/25	JRB	SW8151A
MCPP	ND	83	ug/L	1	05/15/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	49		%	1	05/15/25	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	1	05/15/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.073	mg/L	1	05/18/25	JRB	CTETPH
Identification	ND		mg/L	1	05/18/25	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	60		%	1	05/18/25	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	0.13	ug/L	1	05/16/25	SC	SW8082A
PCB-1221	ND	0.13	ug/L	1	05/16/25	SC	SW8082A
PCB-1232	ND	0.13	ug/L	1	05/16/25	SC	SW8082A
PCB-1242	ND	0.13	ug/L	1	05/16/25	SC	SW8082A
PCB-1248	ND	0.13	ug/L	1	05/16/25	SC	SW8082A
PCB-1254	ND	0.13	ug/L	1	05/16/25	SC	SW8082A
PCB-1260	ND	0.13	ug/L	1	05/16/25	SC	SW8082A
PCB-1262	ND	0.13	ug/L	1	05/16/25	SC	SW8082A
PCB-1268	ND	0.13	ug/L	1	05/16/25	SC	SW8082A

QA/QC Surrogates

% DCBP	34		%	1	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	34		%	1	05/16/25	SC	30 - 150 %
% TCMX	60		%	1	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	57		%	1	05/16/25	SC	30 - 150 %

Pesticides

4,4' -DDD	ND	0.050	ug/L	1	05/19/25	PS	SW8081B
4,4' -DDE	ND	0.050	ug/L	1	05/19/25	PS	SW8081B
4,4' -DDT	ND	0.050	ug/L	1	05/19/25	PS	SW8081B
α-BHC	ND	0.025	ug/L	1	05/19/25	PS	SW8081B
Alachlor	ND	0.075	ug/L	1	05/19/25	PS	SW8081B
Aldrin	ND	0.002	ug/L	1	05/19/25	PS	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.005	ug/L	1	05/19/25	PS	SW8081B
Chlordane	ND	0.30	ug/L	1	05/19/25	PS	SW8081B
d-BHC	ND	0.025	ug/L	1	05/19/25	PS	SW8081B
Dieldrin	ND	0.002	ug/L	1	05/19/25	PS	SW8081B
Endosulfan I	ND	0.050	ug/L	1	05/19/25	PS	SW8081B
Endosulfan II	ND	0.050	ug/L	1	05/19/25	PS	SW8081B
Endosulfan Sulfate	ND	0.050	ug/L	1	05/19/25	PS	SW8081B
Endrin	ND	0.050	ug/L	1	05/19/25	PS	SW8081B
Endrin Aldehyde	ND	0.050	ug/L	1	05/19/25	PS	SW8081B
Endrin ketone	ND	0.050	ug/L	1	05/19/25	PS	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	05/19/25	PS	SW8081B
Heptachlor	ND	0.025	ug/L	1	05/19/25	PS	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	05/19/25	PS	SW8081B
Methoxychlor	ND	0.10	ug/L	1	05/19/25	PS	SW8081B
Toxaphene	ND	1.0	ug/L	1	05/19/25	PS	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	27		%	1	05/19/25	PS	30 - 150 % 3
%DCBP (Surrogate Rec) (Confirmation)	17		%	1	05/19/25	PS	30 - 150 % 3
%TCMX (Surrogate Rec)	74		%	1	05/19/25	PS	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	97		%	1	05/19/25	PS	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/13/25	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	05/13/25	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	05/13/25	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	05/13/25	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	05/13/25	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/13/25	MH	SW8260
Acetone	ND	25	ug/L	1	05/13/25	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	05/13/25	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.70	ug/L	1	05/13/25	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	05/13/25	MH	SW8260
Bromoform	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	05/13/25	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Chloroform	2.2	1.0	ug/L	1	05/13/25	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/13/25	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	05/13/25	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	05/13/25	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	05/13/25	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Styrene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/13/25	MH	SW8260
Toluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	05/13/25	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/13/25	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/13/25	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	05/13/25	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	05/13/25	MH	70 - 130 %
% Bromofluorobenzene	91		%	1	05/13/25	MH	70 - 130 %
% Dibromofluoromethane	98		%	1	05/13/25	MH	70 - 130 %
% Toluene-d8	95		%	1	05/13/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	40	ug/L	1	05/13/25	MH	SW8260
Diethyl ether	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Ethyl tert-butyl ether	ND	1.0	ug/L	1	05/13/25	MH	SW8260
tert-amyl methyl ether	ND	1.0	ug/L	1	05/13/25	MH	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.4	ug/L	1	05/19/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
1,2-Dichlorobenzene	ND	2.5	ug/L	1	05/19/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
1,3-Dichlorobenzene	ND	2.5	ug/L	1	05/19/25	MR	SW8270E
1,4-Dichlorobenzene	ND	2.5	ug/L	1	05/19/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2,4-Dichlorophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2,4-Dimethylphenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2,4-Dinitrophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2,4-Dinitrotoluene	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
2,6-Dinitrotoluene	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
2-Chloronaphthalene	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
2-Chlorophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2-Nitroaniline	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
2-Nitrophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	9.8	ug/L	1	05/19/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
3-Nitroaniline	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
4-Chloroaniline	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
4-Nitroaniline	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
4-Nitrophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
Acetophenone	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Aniline	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Benzidine	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Benzoic acid	ND	49	ug/L	1	05/19/25	MR	SW8270E
Benzyl butyl phthalate	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
Carbazole	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Dibenzofuran	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
Diethyl phthalate	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Dimethylphthalate	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Di-n-butylphthalate	ND	4.9	ug/L	1	05/19/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Di-n-octylphthalate	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Hexachloroethane	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
Isophorone	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
N-Nitrosodimethylamine	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Pentachloronitrobenzene	ND	2.5	ug/L	1	05/19/25	MR	SW8270E
Phenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	63		%	1	05/19/25	MR	15 - 110 %
% 2-Fluorobiphenyl	66		%	1	05/19/25	MR	30 - 130 %
% 2-Fluorophenol	38		%	1	05/19/25	MR	15 - 110 %
% Nitrobenzene-d5	63		%	1	05/19/25	MR	30 - 130 %
% Phenol-d5	<10		%	1	05/19/25	MR	15 - 110 % 3
% Terphenyl-d14	23		%	1	05/19/25	MR	30 - 130 % 3
<u>Semivolatiles (SIM)</u>							
2-Methylnaphthalene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Acenaphthene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Acenaphthylene	ND	0.29	ug/L	1	05/19/25	MR	SW8270E (SIM)
Anthracene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/19/25	MR	SW8270E (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	05/19/25	MR	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	05/19/25	MR	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	05/19/25	MR	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	05/19/25	MR	SW8270E (SIM)
Chrysene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	05/19/25	MR	SW8270E (SIM)
Fluoranthene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Fluorene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	05/19/25	MR	SW8270E (SIM)
Hexachlorobutadiene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Hexachlorocyclopentadiene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	05/19/25	MR	SW8270E (SIM)
Naphthalene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Nitrobenzene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Pentachlorophenol	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Phenanthrene	ND	0.06	ug/L	1	05/19/25	MR	SW8270E (SIM)
Pyrene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Pyridine	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	70		%	1	05/19/25	MR	15 - 110 %
% 2-Fluorobiphenyl	57		%	1	05/19/25	MR	30 - 130 %
% 2-Fluorophenol	42		%	1	05/19/25	MR	15 - 110 %
% Nitrobenzene-d5	69		%	1	05/19/25	MR	30 - 130 %
% Phenol-d5	<10		%	1	05/19/25	MR	15 - 110 % 3
% Terphenyl-d14	23		%	1	05/19/25	MR	30 - 130 % 3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

Pesticide Comment:

Poor surrogate recovery was observed. Sample was re-extracted with similar results.

Dissolved analysis requires filtration. Samples submitted from an unpreserved container have been lab filtered.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: GROUND WATER
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/12/25
05/12/25

Time

7:15
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25438

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250512-MW-7

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/15/25	TH	SW6010D
Arsenic	0.004	0.004	mg/L	1	05/15/25	TH	SW6010D
Barium	0.673	0.002	mg/L	1	05/15/25	TH	SW6010D
Cadmium	0.003	0.001	mg/L	1	05/15/25	TH	SW6010D
Chromium	0.072	0.001	mg/L	1	05/15/25	TH	SW6010D
Copper	0.452	0.005	mg/L	1	05/15/25	TH	SW6010D
Silver (Dissolved)	< 0.001	0.001	mg/L	1	05/14/25	CPP	SW6010D
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	05/14/25	CPP	SW6010D
Barium (Dissolved)	0.083	0.002	mg/L	1	05/14/25	CPP	SW6010D
Cadmium (Dissolved)	< 0.001	0.001	mg/L	1	05/14/25	CPP	SW6010D
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	05/14/25	CPP	SW6010D
Copper (Dissolved)	0.011	0.005	mg/L	1	05/14/25	CPP	SW6010D
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	05/16/25	ZT	SW7470A
Nickel (Dissolved)	0.053	0.001	mg/L	1	05/14/25	CPP	SW6010D
Lead (Dissolved)	< 0.002	0.002	mg/L	1	05/14/25	CPP	SW6010D
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	05/14/25	CPP	SW6010D
Zinc (Dissolved)	0.005	0.002	mg/L	1	05/14/25	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	05/16/25	ZT	SW7470A
Nickel	0.109	0.001	mg/L	1	05/15/25	TH	SW6010D
Lead	0.007	0.001	mg/L	1	05/15/25	TH	SW6010D
Selenium	< 0.010	0.010	mg/L	1	05/15/25	TH	SW6010D
Zinc	0.109	0.004	mg/L	1	05/15/25	TH	SW6010D
Extraction of ETPH	Completed				05/16/25	L/MQ	SW3510C/SW3520C
Lab Filtration	Completed				05/13/25	AG	0.45um Filter
Mercury Dissolved Digestion	Completed				05/15/25	AK/GW	SW7470A
Mercury Digestion	Completed				05/14/25	AK/AK	SW7470A
Extraction for Herbicide	Completed				05/14/25	CV/MQ	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Extraction	Completed				05/15/25	T/J/J	SW3510C
Extraction for Pest (LDL)	Completed				05/15/25	T/J/J	SW3510C
Semi-Volatile Extraction	Completed				05/15/25	L/MQ	SW3520C
Dissolved Metals Preparation	Completed				05/13/25	AG	SW3005A
Total Metals Digestion	Completed				05/14/25	AG	SW3010A

Chlorinated Herbicides

2,4,5-T	ND	0.24	ug/L	1	05/15/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	0.24	ug/L	1	05/15/25	JRB	SW8151A
2,4-D	ND	0.49	ug/L	1	05/15/25	JRB	SW8151A
2,4-DB	ND	4.9	ug/L	1	05/15/25	JRB	SW8151A
Dalapon	ND	0.24	ug/L	1	05/15/25	JRB	SW8151A
Dicamba	ND	0.24	ug/L	1	05/15/25	JRB	SW8151A
Dichloroprop	ND	0.49	ug/L	1	05/15/25	JRB	SW8151A
Dinoseb	ND	0.49	ug/L	1	05/15/25	JRB	SW8151A
MCPA	ND	73	ug/L	1	05/15/25	JRB	SW8151A
MCPP	ND	73	ug/L	1	05/15/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	54		%	1	05/15/25	JRB	30 - 150 %
% DCAA (Confirmation)	78		%	1	05/15/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	05/18/25	JRB	CTETPH
Identification	ND		mg/L	1	05/18/25	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	59		%	1	05/18/25	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	0.10	ug/L	1	05/16/25	SC	SW8082A
PCB-1221	ND	0.10	ug/L	1	05/16/25	SC	SW8082A
PCB-1232	ND	0.10	ug/L	1	05/16/25	SC	SW8082A
PCB-1242	ND	0.10	ug/L	1	05/16/25	SC	SW8082A
PCB-1248	ND	0.10	ug/L	1	05/16/25	SC	SW8082A
PCB-1254	ND	0.10	ug/L	1	05/16/25	SC	SW8082A
PCB-1260	ND	0.10	ug/L	1	05/16/25	SC	SW8082A
PCB-1262	ND	0.10	ug/L	1	05/16/25	SC	SW8082A
PCB-1268	ND	0.10	ug/L	1	05/16/25	SC	SW8082A

QA/QC Surrogates

% DCBP	42		%	1	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	43		%	1	05/16/25	SC	30 - 150 %
% TCMX	72		%	1	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	74		%	1	05/16/25	SC	30 - 150 %

Pesticides

4,4' -DDD	ND	0.002	ug/L	1	05/19/25	AW	SW8081B
4,4' -DDE	ND	0.002	ug/L	1	05/19/25	AW	SW8081B
4,4' -DDT	ND	0.010	ug/L	1	05/19/25	AW	SW8081B
α-BHC	ND	0.026	ug/L	1	05/19/25	AW	SW8081B
Alachlor	ND	0.077	ug/L	1	05/19/25	AW	SW8081B
Aldrin	ND	0.002	ug/L	1	05/19/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.005	ug/L	1	05/19/25	AW	SW8081B
Chlordane	ND	0.020	ug/L	1	05/19/25	AW	SW8081B
d-BHC	ND	0.026	ug/L	1	05/19/25	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	05/19/25	AW	SW8081B
Endosulfan I	ND	0.051	ug/L	1	05/19/25	AW	SW8081B
Endosulfan II	ND	0.051	ug/L	1	05/19/25	AW	SW8081B
Endosulfan Sulfate	ND	0.051	ug/L	1	05/19/25	AW	SW8081B
Endrin	ND	0.051	ug/L	1	05/19/25	AW	SW8081B
Endrin Aldehyde	ND	0.051	ug/L	1	05/19/25	AW	SW8081B
Endrin ketone	ND	0.051	ug/L	1	05/19/25	AW	SW8081B
g-BHC (Lindane)	ND	0.026	ug/L	1	05/19/25	AW	SW8081B
Heptachlor	ND	0.026	ug/L	1	05/19/25	AW	SW8081B
Heptachlor epoxide	ND	0.026	ug/L	1	05/19/25	AW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	05/19/25	AW	SW8081B
Toxaphene	ND	0.20	ug/L	1	05/19/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	30		%	1	05/19/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	25		%	1	05/19/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	43		%	1	05/19/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	67		%	1	05/19/25	AW	30 - 150 %

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Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/13/25	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	05/13/25	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	05/13/25	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	05/13/25	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	05/13/25	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/13/25	MH	SW8260
Acetone	ND	25	ug/L	1	05/13/25	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	05/13/25	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.70	ug/L	1	05/13/25	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	05/13/25	MH	SW8260
Bromoform	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	05/13/25	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Chloroform	2.2	1.0	ug/L	1	05/13/25	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/13/25	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	05/13/25	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	05/13/25	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	05/13/25	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Styrene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/13/25	MH	SW8260
Toluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	05/13/25	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/13/25	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/13/25	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	05/13/25	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/13/25	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	05/13/25	MH	70 - 130 %
% Dibromofluoromethane	105		%	1	05/13/25	MH	70 - 130 %
% Toluene-d8	97		%	1	05/13/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	40	ug/L	1	05/13/25	MH	SW8260
Diethyl ether	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Ethyl tert-butyl ether	ND	1.0	ug/L	1	05/13/25	MH	SW8260
tert-amyl methyl ether	ND	1.0	ug/L	1	05/13/25	MH	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.4	ug/L	1	05/19/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
1,2-Dichlorobenzene	ND	2.5	ug/L	1	05/19/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
1,3-Dichlorobenzene	ND	2.5	ug/L	1	05/19/25	MR	SW8270E
1,4-Dichlorobenzene	ND	2.5	ug/L	1	05/19/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2,4-Dichlorophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2,4-Dimethylphenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2,4-Dinitrophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2,4-Dinitrotoluene	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
2,6-Dinitrotoluene	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
2-Chloronaphthalene	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
2-Chlorophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
2-Nitroaniline	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
2-Nitrophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	9.8	ug/L	1	05/19/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
3-Nitroaniline	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
4-Chloroaniline	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
4-Nitroaniline	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
4-Nitrophenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
Acetophenone	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Aniline	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Benzidine	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Benzoic acid	ND	49	ug/L	1	05/19/25	MR	SW8270E
Benzyl butyl phthalate	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
Carbazole	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Dibenzofuran	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
Diethyl phthalate	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Dimethylphthalate	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Di-n-butylphthalate	ND	4.9	ug/L	1	05/19/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Di-n-octylphthalate	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Hexachloroethane	ND	0.98	ug/L	1	05/19/25	MR	SW8270E
Isophorone	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
N-Nitrosodimethylamine	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	05/19/25	MR	SW8270E
Pentachloronitrobenzene	ND	2.5	ug/L	1	05/19/25	MR	SW8270E
Phenol	ND	0.98	ug/L	1	05/19/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	54		%	1	05/19/25	MR	15 - 110 %
% 2-Fluorobiphenyl	44		%	1	05/19/25	MR	30 - 130 %
% 2-Fluorophenol	27		%	1	05/19/25	MR	15 - 110 %
% Nitrobenzene-d5	40		%	1	05/19/25	MR	30 - 130 %
% Phenol-d5	32		%	1	05/19/25	MR	15 - 110 %
% Terphenyl-d14	17		%	1	05/19/25	MR	30 - 130 %

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Semivolatiles (SIM)

2-Methylnaphthalene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Acenaphthene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Acenaphthylene	ND	0.29	ug/L	1	05/19/25	MR	SW8270E (SIM)
Anthracene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/19/25	MR	SW8270E (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	05/19/25	MR	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	05/19/25	MR	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	05/19/25	MR	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	05/19/25	MR	SW8270E (SIM)
Chrysene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	05/19/25	MR	SW8270E (SIM)
Fluoranthene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Fluorene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	05/19/25	MR	SW8270E (SIM)
Hexachlorobutadiene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Hexachlorocyclopentadiene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	05/19/25	MR	SW8270E (SIM)
Naphthalene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Nitrobenzene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Pentachlorophenol	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Phenanthrene	0.11	0.06	ug/L	1	05/19/25	MR	SW8270E (SIM)
Pyrene	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)
Pyridine	ND	0.49	ug/L	1	05/19/25	MR	SW8270E (SIM)

QA/QC Surrogates

% 2,4,6-Tribromophenol	61		%	1	05/19/25	MR	15 - 110 %
% 2-Fluorobiphenyl	42		%	1	05/19/25	MR	30 - 130 %
% 2-Fluorophenol	31		%	1	05/19/25	MR	15 - 110 %
% Nitrobenzene-d5	43		%	1	05/19/25	MR	30 - 130 %
% Phenol-d5	31		%	1	05/19/25	MR	15 - 110 %
% Terphenyl-d14	17		%	1	05/19/25	MR	30 - 130 %

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

Dissolved analysis requires filtration. Samples submitted from an unpreserved container have been lab filtered.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

7:00
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25439

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-TB-SOIL LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				05/09/25		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/13/25	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/13/25	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/13/25	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/13/25	JLI	SW8260
Acetone	ND	250	ug/Kg	1	05/13/25	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/13/25	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/13/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/13/25	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	05/13/25	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/13/25	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/13/25	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/13/25	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/13/25	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	98		%	1	05/13/25	JLI	70 - 130 %
% Dibromofluoromethane	91		%	1	05/13/25	JLI	70 - 130 %
% Toluene-d8	101		%	1	05/13/25	JLI	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	100	ug/Kg	1	05/13/25	JLI	SW8260
Diethyl ether	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
Ethyl tert-butyl ether	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260
tert-amyl methyl ether	ND	5.0	ug/Kg	1	05/13/25	JLI	SW8260

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: WATER
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/12/25
05/12/25

Time

7:00
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25440

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250512-TB-GW

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/13/25	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	05/13/25	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	05/13/25	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	05/13/25	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	05/13/25	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/13/25	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	05/13/25	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	05/13/25	MH	SW8260
Benzene	ND	0.70	ug/L	1	05/13/25	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	05/13/25	MH	SW8260
Bromoform	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	05/13/25	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Chloroform	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/13/25	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	05/13/25	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	05/13/25	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	05/13/25	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Styrene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/13/25	MH	SW8260
Toluene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	05/13/25	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/13/25	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/13/25	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	05/13/25	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	103		%	1	05/13/25	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	05/13/25	MH	70 - 130 %
% Dibromofluoromethane	109		%	1	05/13/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	95		%	1	05/13/25	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	40	ug/L	1	05/13/25	MH	SW8260
Diethyl ether	ND	1.0	ug/L	1	05/13/25	MH	SW8260
Ethyl tert-butyl ether	ND	1.0	ug/L	1	05/13/25	MH	SW8260
tert-amyl methyl ether	ND	1.0	ug/L	1	05/13/25	MH	SW8260

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

7:00
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25441

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-TB-SOIL HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				05/09/25		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	50	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	50	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	100	ug/Kg	50	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	140	ug/Kg	50	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	25	ug/Kg	50	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	25	ug/Kg	50	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	100	ug/Kg	50	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
2-Hexanone	ND	700	ug/Kg	50	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/14/25	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	05/14/25	JLI	SW8260
Acrylonitrile	ND	25	ug/Kg	50	05/14/25	JLI	SW8260
Benzene	ND	25	ug/Kg	50	05/14/25	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Bromodichloromethane	ND	50	ug/Kg	50	05/14/25	JLI	SW8260
Bromoform	ND	80	ug/Kg	50	05/14/25	JLI	SW8260
Bromomethane	ND	100	ug/Kg	50	05/14/25	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	100	ug/Kg	50	05/14/25	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Chloroethane	ND	150	ug/Kg	50	05/14/25	JLI	SW8260
Chloroform	ND	120	ug/Kg	50	05/14/25	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	25	ug/Kg	50	05/14/25	JLI	SW8260
Dibromochloromethane	ND	50	ug/Kg	50	05/14/25	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	200	ug/Kg	50	05/14/25	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Methylene chloride	ND	100	ug/Kg	50	05/14/25	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Styrene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Tetrachloroethene	ND	100	ug/Kg	50	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	130	ug/Kg	50	05/14/25	JLI	SW8260
Toluene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	25	ug/Kg	50	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/14/25	JLI	SW8260
Trichloroethene	ND	100	ug/Kg	50	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Vinyl chloride	ND	40	ug/Kg	50	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/14/25	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	99		%	50	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	93		%	50	05/14/25	JLI	70 - 130 %
% Toluene-d8 (50x)	101		%	50	05/14/25	JLI	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	800	ug/Kg	50	05/14/25	JLI	SW8260
Diethyl ether	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	250	ug/Kg	50	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	250	ug/Kg	50	05/14/25	JLI	SW8260

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

11:25
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25442

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-10 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	2.37	0.68	mg/Kg	1	05/13/25	TH	SW6010D
Barium	76.9	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	0.64	0.27	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.34	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	17.2	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	15.2	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Lead	23.4	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	0.006	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.083	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	0.030	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	0.063	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.070	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.38	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	0.034	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	0.055	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.05	0.05	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.223	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 3.1	3.1	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	63.5	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	50.7	0.7	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	93		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	94	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	8.19	1.00	pH Units	1	05/13/25 00:14	ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	S/Z/U	SW3546
Soil Extraction for Herbicide	Completed				05/17/25	Y/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	130	ug/Kg	10	05/19/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	130	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-D	ND	260	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-DB	ND	2600	ug/Kg	10	05/19/25	JRB	SW8151A
Dalapon	ND	130	ug/Kg	10	05/19/25	JRB	SW8151A
Dicamba	ND	130	ug/Kg	10	05/19/25	JRB	SW8151A
Dichloroprop	ND	260	ug/Kg	10	05/19/25	JRB	SW8151A
Dinoseb	ND	260	ug/Kg	10	05/19/25	JRB	SW8151A
MCPA	ND	39000	ug/Kg	10	05/19/25	JRB	SW8151A
MCPP	ND	39000	ug/Kg	10	05/19/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	69		%	10	05/19/25	JRB	30 - 150 %
% DCAA (Confirmation)	67		%	10	05/19/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	75		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	78		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	350	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	05/22/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	96		%	10	05/22/25	SC	30 - 150 %
% DCBP (Confirmation)	104		%	10	05/22/25	SC	30 - 150 %
% TCMX	96		%	10	05/22/25	SC	30 - 150 %
% TCMX (Confirmation)	99		%	10	05/22/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
a-BHC	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
Alachlor	ND	7.0	ug/Kg	2	05/22/25	AW	SW8081B
Aldrin	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
b-BHC	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
Chlordane	ND	35	ug/Kg	2	05/22/25	AW	SW8081B
d-BHC	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	05/22/25	AW	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	05/22/25	AW	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	05/22/25	AW	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	05/22/25	AW	SW8081B
Endrin	ND	7.0	ug/Kg	2	05/22/25	AW	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	05/22/25	AW	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	05/22/25	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	05/22/25	AW	SW8081B
Heptachlor epoxide	ND	7.0	ug/Kg	2	05/22/25	AW	SW8081B
Methoxychlor	ND	35	ug/Kg	2	05/22/25	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/22/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	80		%	2	05/22/25	AW	30 - 150 %
% DCBP (Confirmation)	57		%	2	05/22/25	AW	30 - 150 %
% TCMX	74		%	2	05/22/25	AW	30 - 150 %
% TCMX (Confirmation)	77		%	2	05/22/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	1.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.32	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	16	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	16	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	160	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	1.9	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	19	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	6.3	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	6.3	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	6.3	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	6.3	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	6.3	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	103		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	63	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	3.2	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	720	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	92		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	71		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	57		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	70		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	64		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	42		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

11:05
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25443

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-19 (2-4)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.45	0.45	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	1.81	0.90	mg/Kg	1	05/13/25	TH	SW6010D
Barium	89.8	0.45	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	0.82	0.36	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.45	0.45	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	26.2	0.45	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.04	0.04	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	23.0	0.45	mg/Kg	1	05/13/25	TH	SW6010D
Lead	12.9	0.45	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 4.5	4.5	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.8	1.8	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.116	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	0.012	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.034	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.39	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.092	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 4.1	4.1	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	50.5	0.45	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	57.1	0.9	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	72		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	63	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	8.35	1.00	pH Units	1	05/13/25 00:14	ER	SW846 9045D
Reactivity Cyanide	< 7	7	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	S/Z/U	SW3546
Soil Extraction for Herbicide	Completed				05/17/25	Y/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	170	ug/Kg	10	05/19/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	170	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-D	ND	340	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-DB	ND	3400	ug/Kg	10	05/19/25	JRB	SW8151A
Dalapon	ND	170	ug/Kg	10	05/19/25	JRB	SW8151A
Dicamba	ND	170	ug/Kg	10	05/19/25	JRB	SW8151A
Dichloroprop	ND	340	ug/Kg	10	05/19/25	JRB	SW8151A
Dinoseb	ND	340	ug/Kg	10	05/19/25	JRB	SW8151A
MCPA	ND	51000	ug/Kg	10	05/19/25	JRB	SW8151A
MCP	ND	51000	ug/Kg	10	05/19/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	72		%	10	05/19/25	JRB	30 - 150 %
% DCAA (Confirmation)	70		%	10	05/19/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	82		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	90		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	450	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1221	ND	450	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1232	ND	450	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1242	ND	450	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1248	ND	450	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1254	ND	450	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1260	ND	450	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1262	ND	450	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1268	ND	450	ug/Kg	10	05/22/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	83		%	10	05/22/25	SC	30 - 150 %
% DCBP (Confirmation)	77		%	10	05/22/25	SC	30 - 150 %
% TCMX	69		%	10	05/22/25	SC	30 - 150 %
% TCMX (Confirmation)	64		%	10	05/22/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.8	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDE	ND	1.8	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDT	ND	1.8	ug/Kg	2	05/21/25	AW	SW8081B
a-BHC	ND	1.8	ug/Kg	2	05/21/25	AW	SW8081B
Alachlor	ND	9.0	ug/Kg	2	05/21/25	AW	SW8081B
Aldrin	ND	1.8	ug/Kg	2	05/21/25	AW	SW8081B
b-BHC	ND	1.8	ug/Kg	2	05/21/25	AW	SW8081B
Chlordane	ND	45	ug/Kg	2	05/21/25	AW	SW8081B
d-BHC	ND	1.8	ug/Kg	2	05/21/25	AW	SW8081B
Dieldrin	ND	4.5	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan I	ND	9.0	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan II	ND	9.0	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan sulfate	ND	9.0	ug/Kg	2	05/21/25	AW	SW8081B
Endrin	ND	9.0	ug/Kg	2	05/21/25	AW	SW8081B
Endrin aldehyde	ND	9.0	ug/Kg	2	05/21/25	AW	SW8081B
Endrin ketone	ND	9.0	ug/Kg	2	05/21/25	AW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor	ND	9.0	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor epoxide	ND	9.0	ug/Kg	2	05/21/25	AW	SW8081B
Methoxychlor	ND	45	ug/Kg	2	05/21/25	AW	SW8081B
Toxaphene	ND	180	ug/Kg	2	05/21/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	63		%	2	05/21/25	AW	30 - 150 %
% DCBP (Confirmation)	51		%	2	05/21/25	AW	30 - 150 %
% TCMX	60		%	2	05/21/25	AW	30 - 150 %
% TCMX (Confirmation)	69		%	2	05/21/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.36	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	18	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	18	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	180	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	2.2	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	22	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	7.2	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	7.2	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	7.2	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	7.2	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	7.2	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	103		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	72	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	460	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	460	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	920	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	460	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	460	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	460	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	460	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	320	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	89		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	74		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	71		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	73		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	72		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	74		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

10:55
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25444

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-20 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	1.89	0.65	mg/Kg	1	05/13/25	TH	SW6010D
Barium	69.2	0.33	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	0.64	0.26	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.33	0.33	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	21.3	0.33	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	18.7	0.33	mg/Kg	1	05/13/25	TH	SW6010D
Lead	10.6	0.33	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 3.3	3.3	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.099	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.022	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.73	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.05	0.05	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.056	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 2.9	2.9	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	40.9	0.33	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	43.8	0.7	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	92		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	101	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	8.36	1.00	pH Units	1	05/13/25 00:14	ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	S/Z/U	SW3546
Soil Extraction for Herbicide	Completed				05/17/25	Y/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	130	ug/Kg	10	05/19/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	130	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/19/25	JRB	SW8151A
Dalapon	ND	130	ug/Kg	10	05/19/25	JRB	SW8151A
Dicamba	ND	130	ug/Kg	10	05/19/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/19/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/19/25	JRB	SW8151A
MCPA	ND	40000	ug/Kg	10	05/19/25	JRB	SW8151A
MCP	ND	40000	ug/Kg	10	05/19/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	85		%	10	05/19/25	JRB	30 - 150 %
% DCAA (Confirmation)	81		%	10	05/19/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	96		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	104		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	78		%	10	05/21/25	SC	30 - 150 %
% DCBP (Confirmation)	93		%	10	05/21/25	SC	30 - 150 %
% TCMX	80		%	10	05/21/25	SC	30 - 150 %
% TCMX (Confirmation)	85		%	10	05/21/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
a-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Alachlor	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Aldrin	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
b-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Chlordane	ND	35	ug/Kg	2	05/21/25	AW	SW8081B
d-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Endrin	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor epoxide	ND	7.0	ug/Kg	2	05/21/25	AW	SW8081B
Methoxychlor	ND	35	ug/Kg	2	05/21/25	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/21/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	61		%	2	05/21/25	AW	30 - 150 %
% DCBP (Confirmation)	46		%	2	05/21/25	AW	30 - 150 %
% TCMX	61		%	2	05/21/25	AW	30 - 150 %
% TCMX (Confirmation)	65		%	2	05/21/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	1.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.27	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	13	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	13	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	130	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	1.6	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	16	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	5.3	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	5.3	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	5.3	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	5.3	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	5.3	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	103		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	53	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	710	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	75		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	66		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	65		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	65		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	64		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	60		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

10:45
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25445

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-21 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	4.86	0.68	mg/Kg	1	05/13/25	TH	SW6010D
Barium	144	3.4	mg/Kg	10	05/13/25	TH	SW6010D
Beryllium	1.27	0.27	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.34	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	19.5	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	16.7	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Lead	15.0	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.085	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.020	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.38	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.061	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 3.1	3.1	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	49.7	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	45.5	0.7	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	91		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	9	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	7.45	1.00	pH Units	1	05/13/25 00:14	ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	S/Z/U	SW3546
Soil Extraction for Herbicide	Completed				05/17/25	Y/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/19/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/19/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/19/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/19/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/19/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	73		%	10	05/19/25	JRB	30 - 150 %
% DCAA (Confirmation)	73		%	10	05/19/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	81		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	91		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	85		%	10	05/21/25	SC	30 - 150 %
% DCBP (Confirmation)	100		%	10	05/21/25	SC	30 - 150 %
% TCMX	90		%	10	05/21/25	SC	30 - 150 %
% TCMX (Confirmation)	95		%	10	05/21/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
a-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Aldrin	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
b-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/21/25	AW	SW8081B
d-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Endrin	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/21/25	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/21/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	70		%	2	05/21/25	AW	30 - 150 %
% DCBP (Confirmation)	56		%	2	05/21/25	AW	30 - 150 %
% TCMX	67		%	2	05/21/25	AW	30 - 150 %
% TCMX (Confirmation)	75		%	2	05/21/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	1.8	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.30	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	15	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	15	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	150	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	1.8	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	18	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	5.9	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	5.9	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	5.9	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	5.9	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	103		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	59	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	730	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	69		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	60		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	61		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	61		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	61		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	59		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

10:15
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25446

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-6 (2-4)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	1.44	0.69	mg/Kg	1	05/13/25	TH	SW6010D
Barium	82.7	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	0.45	0.28	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.34	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	13.0	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	10.9	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Lead	16.2	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	0.013	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	1.87	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	0.030	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	0.027	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	0.0003	0.0002	mg/L	1	05/15/25	ZT	SW7470A
SPLP Nickel	0.012	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	0.085	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.082	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.70	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.05	0.05	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.061	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 3.1	3.1	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	35.6	0.34	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	33.0	0.7	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	92		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	216	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	7.35	1.00	pH Units	1	05/13/25 00:14	ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	S/Z/U	SW3546
Soil Extraction for Herbicide	Completed				05/17/25	Y/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/19/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/19/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/19/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/19/25	JRB	SW8151A
MCPP	ND	41000	ug/Kg	10	05/19/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	73		%	10	05/19/25	JRB	30 - 150 %
% DCAA (Confirmation)	70		%	10	05/19/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	66		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	84		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	88		%	10	05/22/25	SC	30 - 150 %
% DCBP (Confirmation)	102		%	10	05/22/25	SC	30 - 150 %
% TCMX	92		%	10	05/22/25	SC	30 - 150 %
% TCMX (Confirmation)	98		%	10	05/22/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
a-BHC	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Aldrin	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
b-BHC	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/22/25	AW	SW8081B
d-BHC	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/22/25	AW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Endrin	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/22/25	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/22/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	79		%	2	05/22/25	AW	30 - 150 %
% DCBP (Confirmation)	59		%	2	05/22/25	AW	30 - 150 %
% TCMX	74		%	2	05/22/25	AW	30 - 150 %
% TCMX (Confirmation)	78		%	2	05/22/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	1.8	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.29	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	15	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	15	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	150	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	1.8	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	18	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	5.9	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	5.9	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	5.9	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	5.9	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	104		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	59	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	700	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	350	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	350	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	350	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	73		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	65		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	55		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	65		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	60		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	46		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

10:20
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25447

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-6 (4-6)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	3.64	0.69	mg/Kg	1	05/13/25	TH	SW6010D
Barium	137	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	0.78	0.28	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.35	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	12.4	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	11.0	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Lead	11.4	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.099	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/14/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.018	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.27	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/14/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.063	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 3.1	3.1	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	37.7	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	28.8	0.7	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	89		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	221	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	8.14	1.00	pH Units	1	05/13/25 00:14	ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	S/Z/U	SW3546
Soil Extraction for Herbicide	Completed				05/17/25	Y/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	05/19/25	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	05/19/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/19/25	JRB	SW8151A
Dichloroprop	ND	280	ug/Kg	10	05/19/25	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	05/19/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/19/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/19/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	75		%	10	05/19/25	JRB	30 - 150 %
% DCAA (Confirmation)	73		%	10	05/19/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	77		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	83		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	370	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	05/22/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	82		%	10	05/22/25	SC	30 - 150 %
% DCBP (Confirmation)	61		%	10	05/22/25	SC	30 - 150 %
% TCMX	74		%	10	05/22/25	SC	30 - 150 %
% TCMX (Confirmation)	69		%	10	05/22/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/21/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/21/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/21/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	67		%	2	05/21/25	AW	30 - 150 %
% DCBP (Confirmation)	51		%	2	05/21/25	AW	30 - 150 %
% TCMX	66		%	2	05/21/25	AW	30 - 150 %
% TCMX (Confirmation)	74		%	2	05/21/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	1.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.26	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	13	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	13	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	130	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	1.6	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	16	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	5.2	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	5.2	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	5.2	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	5.2	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	5.2	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	103		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	52	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	2.6	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	740	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	370	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	86		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	70		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	71		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	70		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	72		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

9:55
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25448

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-5 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	1.56	0.74	mg/Kg	1	05/13/25	TH	SW6010D
Barium	90.1	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	0.65	0.30	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.37	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	18.7	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	0.04	0.03	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	16.4	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Lead	10.0	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.020	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/14/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.012	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.50	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/14/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.078	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 3.3	3.3	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	33.3	0.37	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	38.7	0.7	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	91		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	1080	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	6.37	1.00	pH Units	1	05/13/25 00:14	ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Herbicide	Completed				05/19/25	A/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/21/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/21/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/21/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/21/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/21/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/21/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/21/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/21/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/21/25	JRB	SW8151A
MCPP	ND	41000	ug/Kg	10	05/21/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	88		%	10	05/21/25	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	05/21/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	94		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	90		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	90		%	10	05/21/25	SC	30 - 150 %
% DCBP (Confirmation)	101		%	10	05/21/25	SC	30 - 150 %
% TCMX	93		%	10	05/21/25	SC	30 - 150 %
% TCMX (Confirmation)	97		%	10	05/21/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/21/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/21/25	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/21/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/21/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	71		%	2	05/21/25	AW	30 - 150 %
% DCBP (Confirmation)	58		%	2	05/21/25	AW	30 - 150 %
% TCMX	67		%	2	05/21/25	AW	30 - 150 %
% TCMX (Confirmation)	77		%	2	05/21/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.36	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	18	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	18	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	180	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	2.2	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	22	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	7.3	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	7.3	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	7.3	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	7.3	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	7.3	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	104		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	73	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	3.6	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	720	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	65		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	59		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	57		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	57		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	57		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	56		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

Corrosivity is based solely on the pH analysis performed above.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

10:00
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25449

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-5 (4-6)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	3.09	0.70	mg/Kg	1	05/13/25	TH	SW6010D
Barium	147	3.5	mg/Kg	10	05/13/25	TH	SW6010D
Beryllium	0.73	0.28	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.35	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	11.0	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	7.92	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Lead	6.14	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.021	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/14/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.012	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.56	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/14/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.056	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 3.1	3.1	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	38.7	0.35	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	22.8	0.7	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	91		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	1130	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	6.81	1.00	pH Units	1	05/13/25 00:15	ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Herbicide	Completed				05/19/25	A/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/21/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/21/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/21/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/21/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/21/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/21/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/21/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/21/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/21/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/21/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	76		%	10	05/21/25	JRB	30 - 150 %
% DCAA (Confirmation)	71		%	10	05/21/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	94		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	92		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	05/21/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	87		%	10	05/21/25	SC	30 - 150 %
% DCBP (Confirmation)	95		%	10	05/21/25	SC	30 - 150 %
% TCMX	89		%	10	05/21/25	SC	30 - 150 %
% TCMX (Confirmation)	92		%	10	05/21/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
a-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Aldrin	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
b-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/21/25	AW	SW8081B
d-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Endrin	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	05/21/25	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/21/25	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/21/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	71		%	2	05/21/25	AW	30 - 150 %
% DCBP (Confirmation)	55		%	2	05/21/25	AW	30 - 150 %
% TCMX	68		%	2	05/21/25	AW	30 - 150 %
% TCMX (Confirmation)	78		%	2	05/21/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	1.7	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.29	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	14	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	14	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	140	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	1.7	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	17	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	5.7	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	5.7	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	5.7	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	5.7	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	104		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	57	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	2.9	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	730	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	370	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	260	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	55		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	50		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	50		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	50		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	50		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	47		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

9:05
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25450

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-8 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	4.45	0.79	mg/Kg	1	05/13/25	TH	SW6010D
Barium	165	0.40	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	1.49	0.32	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.40	0.40	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	22.5	0.40	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	19.7	0.40	mg/Kg	1	05/13/25	TH	SW6010D
Lead	20.4	0.40	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.115	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/14/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.029	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.43	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/14/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.059	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 3.6	3.6	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	37.2	0.40	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	46.9	0.8	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	90		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	492	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	6.17	1.00	pH Units	1	05/13/25 00:15	ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Herbicide	Completed				05/19/25	A/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/21/25	AC1/H/Z/U	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/21/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/21/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/21/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/21/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/21/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/21/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/21/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/21/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/21/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/21/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	89		%	10	05/21/25	JRB	30 - 150 %
% DCAA (Confirmation)	86		%	10	05/21/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	91		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	89		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	05/22/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	76		%	10	05/22/25	SC	30 - 150 %
% DCBP (Confirmation)	90		%	10	05/22/25	SC	30 - 150 %
% TCMX	82		%	10	05/22/25	SC	30 - 150 %
% TCMX (Confirmation)	84		%	10	05/22/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
a-BHC	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Aldrin	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
b-BHC	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/22/25	AW	SW8081B
d-BHC	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/22/25	AW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Endrin	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/22/25	AW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	05/22/25	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/22/25	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/22/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	66		%	2	05/22/25	AW	30 - 150 %
% DCBP (Confirmation)	52		%	2	05/22/25	AW	30 - 150 %
% TCMX	61		%	2	05/22/25	AW	30 - 150 %
% TCMX (Confirmation)	65		%	2	05/22/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	1.8	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.30	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	15	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	15	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	150	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	1.8	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	18	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	6.0	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	6.0	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	6.0	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	6.0	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	103		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	60	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	3.0	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/22/25	AW	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/22/25	AW	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/22/25	AW	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/22/25	AW	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	05/22/25	AW	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/22/25	AW	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/22/25	AW	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/22/25	AW	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/22/25	AW	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Acenaphthene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Acetophenone	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Aniline	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
Anthracene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Benzidine	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Benzoic acid	ND	720	ug/Kg	1	05/22/25	AW	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/22/25	AW	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	05/22/25	AW	SW8270E
Carbazole	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
Chrysene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	05/22/25	AW	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Fluoranthene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Fluorene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Isophorone	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Naphthalene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/22/25	AW	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/22/25	AW	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/22/25	AW	SW8270E
Phenanthrene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Phenol	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Pyrene	ND	250	ug/Kg	1	05/22/25	AW	SW8270E
Pyridine	ND	200	ug/Kg	1	05/22/25	AW	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	77		%	1	05/22/25	AW	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	05/22/25	AW	30 - 130 %
% 2-Fluorophenol	62		%	1	05/22/25	AW	30 - 130 %
% Nitrobenzene-d5	65		%	1	05/22/25	AW	30 - 130 %
% Phenol-d5	63		%	1	05/22/25	AW	30 - 130 %
% Terphenyl-d14	76		%	1	05/22/25	AW	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 27, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-DAS
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/25
05/12/25

Time

9:10
14:35

Laboratory Data

SDG ID: GCT25432
Phoenix ID: CT25451

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250509-B-8 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	05/13/25	TH	SW6010D
Arsenic	5.49	0.76	mg/Kg	1	05/13/25	TH	SW6010D
Barium	169	0.38	mg/Kg	1	05/13/25	TH	SW6010D
Beryllium	1.66	0.30	mg/Kg	1	05/13/25	TH	SW6010D
Cadmium	< 0.38	0.38	mg/Kg	1	05/13/25	TH	SW6010D
Chromium	26.6	0.38	mg/Kg	1	05/13/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/15/25	ZT	SW7471B
Nickel	22.2	0.38	mg/Kg	1	05/13/25	TH	SW6010D
Lead	24.0	0.38	mg/Kg	1	05/13/25	TH	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	05/13/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	TH	SW6010D
SPLP Barium	0.022	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/14/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/13/25	TH	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/13/25	TH	SW6010D
SPLP Zinc	0.018	0.010	mg/L	1	05/13/25	TH	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.004	0.004	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Barium	0.40	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/14/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/13/25	CPP	SW846 1311/6010D
TCLP Zinc	0.117	0.010	mg/L	1	05/13/25	CPP	SW846 1311/6010D
Thallium	< 3.4	3.4	mg/Kg	1	05/13/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/13/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/13/25	AK/GW	SW3005A
Vanadium	45.6	0.38	mg/Kg	1	05/13/25	TH	SW6010D
Zinc	59.6	0.8	mg/Kg	1	05/13/25	TH	SW6010D
Percent Solid	94		%		05/12/25	CV	SW846-%Solid
Conductivity - Soil Matrix	171	5	umhos/cm	1	05/12/25	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/13/25	ER	SW846-Corr
Flash Point	>200	200	Degree F	1	05/15/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/15/25	G	SW846-Ignit
pH at 20.2C - Soil	7.25	1.00	pH Units	1	05/13/25 00:15	ER	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/21/25	NP/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/21/25	NP/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/21/25	NP/GD	SW846-React
Field Extraction	Completed				05/09/25		SW5035A
Mercury Digestion	Completed				05/13/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Herbicide	Completed				05/19/25	A/D	SW3546
Soil Extraction for PCB	Completed				05/20/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/20/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/20/25	S/Q	SW3546
SPLP Digestion Mercury	Completed				05/13/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/12/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/13/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/12/25	AK	SW1311
Total Metals Digest	Completed				05/12/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	130	ug/Kg	10	05/21/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	130	ug/Kg	10	05/21/25	JRB	SW8151A
2,4-D	ND	260	ug/Kg	10	05/21/25	JRB	SW8151A
2,4-DB	ND	2600	ug/Kg	10	05/21/25	JRB	SW8151A
Dalapon	ND	130	ug/Kg	10	05/21/25	JRB	SW8151A
Dicamba	ND	130	ug/Kg	10	05/21/25	JRB	SW8151A
Dichloroprop	ND	260	ug/Kg	10	05/21/25	JRB	SW8151A
Dinoseb	ND	260	ug/Kg	10	05/21/25	JRB	SW8151A
MCPA	ND	39000	ug/Kg	10	05/21/25	JRB	SW8151A
MCP	ND	39000	ug/Kg	10	05/21/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	63		%	10	05/21/25	JRB	30 - 150 %
% DCAA (Confirmation)	58		%	10	05/21/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	05/21/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/21/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	96		%	1	05/21/25	JRB	50 - 150 %
% Terphenyl (surr)	96		%	1	05/21/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	05/21/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	96		%	10	05/21/25	SC	30 - 150 %
% DCBP (Confirmation)	85		%	10	05/21/25	SC	30 - 150 %
% TCMX	88		%	10	05/21/25	SC	30 - 150 %
% TCMX (Confirmation)	88		%	10	05/21/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
a-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Alachlor	ND	6.9	ug/Kg	2	05/21/25	AW	SW8081B
Aldrin	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
b-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Chlordane	ND	35	ug/Kg	2	05/21/25	AW	SW8081B
d-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan I	ND	6.9	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan II	ND	6.9	ug/Kg	2	05/21/25	AW	SW8081B
Endosulfan sulfate	ND	6.9	ug/Kg	2	05/21/25	AW	SW8081B
Endrin	ND	6.9	ug/Kg	2	05/21/25	AW	SW8081B
Endrin aldehyde	ND	6.9	ug/Kg	2	05/21/25	AW	SW8081B
Endrin ketone	ND	6.9	ug/Kg	2	05/21/25	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor	ND	6.9	ug/Kg	2	05/21/25	AW	SW8081B
Heptachlor epoxide	ND	6.9	ug/Kg	2	05/21/25	AW	SW8081B
Methoxychlor	ND	35	ug/Kg	2	05/21/25	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/21/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	69		%	2	05/21/25	AW	30 - 150 %
% DCBP (Confirmation)	55		%	2	05/21/25	AW	30 - 150 %
% TCMX	67		%	2	05/21/25	AW	30 - 150 %
% TCMX (Confirmation)	75		%	2	05/21/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	1.6	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.27	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	14	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	14	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	140	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	1.6	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	16	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	5.4	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	5.4	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	5.4	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	5.4	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	100		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	91		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	54	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	2.7	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/21/25	KCA	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	05/21/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/21/25	KCA	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Acetophenone	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Aniline	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzidine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Benzoic acid	ND	700	ug/Kg	1	05/21/25	KCA	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	05/21/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	350	ug/Kg	1	05/21/25	KCA	SW8270E
Carbazole	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Chrysene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-butylphthalate	ND	350	ug/Kg	1	05/21/25	KCA	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Fluoranthene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Fluorene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Isophorone	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Naphthalene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/21/25	KCA	SW8270E
Pentachlorophenol	ND	350	ug/Kg	1	05/21/25	KCA	SW8270E
Phenanthrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Phenol	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Pyrene	ND	250	ug/Kg	1	05/21/25	KCA	SW8270E
Pyridine	ND	200	ug/Kg	1	05/21/25	KCA	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	82		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorobiphenyl	70		%	1	05/21/25	KCA	30 - 130 %
% 2-Fluorophenol	68		%	1	05/21/25	KCA	30 - 130 %
% Nitrobenzene-d5	75		%	1	05/21/25	KCA	30 - 130 %
% Phenol-d5	73		%	1	05/21/25	KCA	30 - 130 %
% Terphenyl-d14	60		%	1	05/21/25	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Corrosivity is based solely on the pH analysis performed above.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 27, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

May 27, 2025

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 784573 (mg/L), QC Sample No: CT22519 (CT25437, CT25438)													
Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0002	NC	99.1			105			80 - 120	20
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 784078 (mg/kg), QC Sample No: CT24848 (CT25432, CT25433, CT25434, CT25435, CT25436, CT25442)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	99.8	105	5.1	104	94.7	9.4	70 - 130	30
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 784307 (mg/L), QC Sample No: CT25007 (CT25438)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	99.3			98.7	96.8	1.9	80 - 120	20
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 784069 (mg/L), QC Sample No: CT25433 (CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446)													
Mercury - Water	BRL	0.0002		<0.0002		105			105			80 - 120	20
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 784070 (mg/L), QC Sample No: CT25447 (CT25447, CT25448, CT25449, CT25450, CT25451)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	103			97.2			80 - 120	20
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 784079 (mg/kg), QC Sample No: CT27000 (CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451)													
Mercury - Soil	BRL	0.03	0.93	0.82	12.6	104	104	0.0	NC	NC	NC	70 - 130	30
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 784499 (mg/L), QC Sample No: CT28090 (CT25437)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	99.3			102			80 - 120	20
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 784382 (mg/L), QC Sample No: CT25029 (CT25437, CT25438)													
<u>ICP Metals - Aqueous</u>													
Arsenic	BRL	0.004	<0.004	<0.004	NC	96.9	97.2	0.3	99.1			80 - 120	20
Barium	BRL	0.002	0.005	0.005	NC	103	102	1.0	103			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	103	102	1.0	103			80 - 120	20

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chromium	BRL	0.001	<0.001	<0.001	NC	103	102	1.0	103			80 - 120	20
Copper	BRL	0.005	0.008	0.007	NC	99.9	100	0.1	101			80 - 120	20
Lead	BRL	0.001	0.005	0.004	NC	102	101	1.0	103			80 - 120	20
Nickel	BRL	0.001	<0.001	<0.001	NC	105	104	1.0	106			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	91.1	91.8	0.8	93.8			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	97.6	97.3	0.3	98.8			80 - 120	20
Zinc	BRL	0.004	0.022	0.021	4.70	97.6	97.8	0.2	98.7			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Batch 784081 (mg/L), QC Sample No: CT25262 (CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451)

ICP Metals - SPLP Extraction

Arsenic	BRL	0.004	<0.004	<0.004	NC	91.9	90.8	1.2	92.1			80 - 120	20
Barium	BRL	0.010	<0.010	<0.010	NC	97.9	98.9	1.0	98.0			80 - 120	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	93.4	94.3	1.0	92.7			80 - 120	20
Chromium	BRL	0.010	<0.010	<0.010	NC	93.6	94.2	0.6	93.0			80 - 120	20
Copper	BRL	0.010	<0.010	<0.010	NC	94.7	95.7	1.1	95.7			80 - 120	20
Lead	BRL	0.010	<0.010	<0.010	NC	94.5	93.4	1.2	93.0			80 - 120	20
Nickel	BRL	0.010	<0.010	<0.010	NC	94.6	95.5	0.9	94.0			80 - 120	20
Selenium	BRL	0.020	<0.020	<0.020	NC	99.1	100	0.9	103			80 - 120	20
Silver	BRL	0.010	<0.010	<0.010	NC	98.4	99.2	0.8	98.9			80 - 120	20
Zinc	BRL	0.010	<0.010	<0.010	NC	94.8	95.7	0.9	95.0			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Batch 783978 (mg/kg), QC Sample No: CT25432 (CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451)

ICP Metals - Soil

Antimony	BRL	3.3	<4.1	<3.6	NC	81.6	83.9	2.8	61.9			75 - 125	30	m
Arsenic	BRL	0.67	2.76	2.63	NC	87.6	89.5	2.1	81.4			75 - 125	30	
Barium	BRL	0.33	193	185	4.20	89.4	91.2	2.0	91.4			75 - 125	30	
Beryllium	BRL	0.27	1.16	1.15	NC	94.8	98.4	3.7	89.4			75 - 125	30	
Cadmium	BRL	0.33	<0.41	<0.36	NC	91.6	93.5	2.1	85.0			75 - 125	30	
Chromium	BRL	0.33	26.5	26.8	1.10	96.1	100	4.0	88.9			75 - 125	30	
Lead	BRL	0.33	16.6	16.0	3.70	98.5	98.7	0.2	92.5			75 - 125	30	
Nickel	BRL	0.33	15.4	14.9	3.30	94.8	99.1	4.4	85.5			75 - 125	30	
Selenium	BRL	1.3	<1.6	<1.4	NC	78.3	77.9	0.5	72.3			75 - 125	30	m
Silver	BRL	0.33	<0.41	<0.36	NC	93.4	92.6	0.9	91.0			75 - 125	30	
Thallium	BRL	3.0	<3.7	<3.2	NC	90.5	90.8	0.3	86.0			75 - 125	30	
Vanadium	BRL	0.33	34.1	34.1	0	99.3	103	3.7	91.0			75 - 125	30	
Zinc	BRL	0.67	40.0	39.3	1.80	92.6	96.5	4.1	90.4			75 - 125	30	

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Batch 784075 (mg/L), QC Sample No: CT25432 (CT25432)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.01	<0.004	<0.01	NC	96.5	96.8	0.3	94.1			80 - 120	20
Barium	BRL	0.01	0.45	0.44	2.20	97.7	97.0	0.7	95.0			80 - 120	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	91.1	90.9	0.2	89.4			80 - 120	20
Chromium	BRL	0.010	<0.010	<0.010	NC	92.3	91.9	0.4	91.1			80 - 120	20
Copper	BRL	0.010	<0.010	<0.010	NC	99.0	98.5	0.5	96.7			80 - 120	20

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Lead	BRL	0.010	<0.010	<0.010	NC	90.2	90.1	0.1	88.5			80 - 120	20
Nickel	BRL	0.010	<0.010	<0.010	NC	91.6	91.7	0.1	89.7			80 - 120	20
Selenium	BRL	0.01	<0.01	<0.01	NC	94.9	93.5	1.5	92.1			80 - 120	20
Silver	BRL	0.010	<0.010	<0.010	NC	98.1	97.8	0.3	96.3			80 - 120	20
Zinc	BRL	0.010	0.046	0.043	NC	93.6	93.0	0.6	91.5			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Batch 784076 (mg/L), QC Sample No: CT25434 (CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.01	<0.004	<0.01	NC	97.8	97.5	0.3	93.5			80 - 120	20
Barium	BRL	0.01	0.45	0.45	0	95.9	95.3	0.6	96.8			80 - 120	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	93.3	92.4	1.0	89.3			80 - 120	20
Chromium	BRL	0.010	<0.010	<0.010	NC	93.7	92.5	1.3	90.7			80 - 120	20
Copper	BRL	0.010	<0.010	<0.010	NC	97.0	96.9	0.1	95.4			80 - 120	20
Lead	BRL	0.010	<0.010	<0.010	NC	92.4	91.8	0.7	88.4			80 - 120	20
Nickel	BRL	0.010	<0.010	<0.010	NC	91.4	91.0	0.4	89.2			80 - 120	20
Selenium	BRL	0.05	<0.05	<0.05	NC	96.8	94.2	2.7	91.1			80 - 120	20
Silver	BRL	0.010	<0.010	<0.010	NC	97.6	97.0	0.6	95.1			80 - 120	20
Zinc	BRL	0.010	0.080	0.083	3.70	93.2	92.7	0.5	91.7			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Batch 784190 (mg/L), QC Sample No: CT25501 (CT25437, CT25438)

ICP Metals - Dissolved

Arsenic	BRL	0.004	<0.004	<0.004	NC	85.7	85.9	0.2	89.7	88.2	1.7	80 - 120	20
Barium	BRL	0.002	0.042	0.043	2.40	89.9	89.4	0.6	91.5	89.4	2.3	80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	87.3	86.9	0.5	86.0	84.4	1.9	80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	87.5	87.2	0.3	87.9	86.2	2.0	80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	88.8	88.9	0.1	92.4	90.6	2.0	80 - 120	20
Lead	BRL	0.002	<0.002	<0.002	NC	87.2	87.7	0.6	86.8	85.0	2.1	80 - 120	20
Nickel	BRL	0.001	0.001	0.001	NC	87.9	87.8	0.1	86.6	85.2	1.6	80 - 120	20
Selenium	BRL	0.011	<0.011	<0.011	NC	80.9	82.3	1.7	81.4	80.8	0.7	80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	89.1	89.9	0.9	93.4	92.1	1.4	80 - 120	20
Zinc	BRL	0.002	<0.002	<0.002	NC	86.1	86.0	0.1	87.3	85.7	1.8	80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

m = This parameter is outside laboratory MS/MSD specified recovery limits.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

May 27, 2025

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 785376 (mg/Kg), QC Sample No: CT25344 (CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451)													
Reactivity Cyanide	BRL	5	<5	<5.1	NC	95.8						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	96.0						80 - 120	30
QA/QC Batch 784589 (Degree F), QC Sample No: CT25340 (CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451)													
Flash Point			>200	>200	NC	101						75 - 125	30
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 784051 (PH), QC Sample No: CT25422 (CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451)													
pH			10.2	10.2	0	100						85 - 115	20
QA/QC Batch 784001 (umhos/cm), QC Sample No: CT25425 (CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451)													
Conductivity - Soil Matrix	BRL	5	392	391	0.30							75 - 125	30
Comment: Additional criteria matrix spike acceptance range is 75-125%.													



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QA/QC Report

May 27, 2025

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 784812 (mg/L), QC Sample No: CT25501 (CT25437, CT25438)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	120	99	19.2	108	113	4.5	60 - 120	20
% Terphenyl (surr)	77	%	78	66	16.7	68	69	1.5	50 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 785235 (mg/Kg), QC Sample No: CT25855 (CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	61	77	23.2	71	67	5.8	60 - 120	30
% COD (surr)	86	%	90	107	17.3	90	73	20.9	50 - 150	30
% Terphenyl (surr)	83	%	83	93	11.4	81	70	14.6	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 785272 (mg/Kg), QC Sample No: CT29400 (CT25448, CT25449, CT25450, CT25451)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	101	99	2.0				60 - 120	30
% COD (surr)	79	%	125	109	13.7				50 - 150	30
% Terphenyl (surr)	69	%	87	85	2.3				50 - 150	30

Comment:

The MS/MSD could not be reported due to the presence of ETPH in the original sample.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 784262 (ug/L), QC Sample No: CT25437 (CT25437, CT25438)

Chlorinated Herbicides - Ground Water

2,4,5-T	ND	2.5	81	85	4.8				40 - 140	20
2,4,5-TP (Silvex)	ND	2.5	98	102	4.0				40 - 140	20
2,4-D	ND	5.0	104	110	5.6				40 - 140	20
2,4-DB	ND	50	44	47	6.6				40 - 140	20
Dalapon	ND	2.5	85	85	0.0				40 - 140	20
Dicamba	ND	2.5	94	97	3.1				40 - 140	20
Dichloroprop	ND	5.0	97	101	4.0				40 - 140	20
Dinoseb	ND	5.0	90	92	2.2				40 - 140	20
MCPA	ND	750	72	70	2.8				40 - 140	20
MCPP	ND	750	87	92	5.6				40 - 140	20
% DCAA (Surrogate Rec)	69	%	72	76	5.4				30 - 150	20
% DCAA (Surrogate Rec) (Confirm)	67	%	69	72	4.3				30 - 150	20

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

Comment:

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 785069 (ug/Kg), QC Sample No: CT25449 (CT25448, CT25449, CT25450, CT25451)

Chlorinated Herbicides - Soil

2,4,5-T	ND	170	88	81	8.3	68	75	9.8	40 - 140	30
2,4,5-TP (Silvex)	ND	170	77	79	2.6	66	67	1.5	40 - 140	30
2,4-D	ND	330	86	82	4.8	72	73	1.4	40 - 140	30
2,4-DB	ND	3300	74	63	16.1	52	63	19.1	40 - 140	30
Dalapon	ND	170	59	64	8.1	55	52	5.6	40 - 140	30
Dicamba	ND	170	79	78	1.3	69	69	0.0	40 - 140	30
Dichloroprop	ND	170	84	83	1.2	72	75	4.1	40 - 140	30
Dinoseb	ND	170	80	85	6.1	68	66	3.0	40 - 140	30
MCPA	ND	50000	86	78	9.8	72	77	6.7	40 - 140	30
MCPP	ND	50000	80	73	9.2	65	72	10.2	40 - 140	30
% DCAA (Surrogate Rec)	70	%	101	95	6.1	85	90	5.7	30 - 150	30
% DCAA (Surrogate Rec) (Confirm	66	%	95	91	4.3	80	84	4.9	30 - 150	30

Comment:

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 784947 (ug/Kg), QC Sample No: CT30387 (CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	61	69	12.3	63	58	8.3	40 - 140	30
2,4,5-TP (Silvex)	ND	130	62	66	6.3	60	58	3.4	40 - 140	30
2,4-D	ND	250	59	67	12.7	61	57	6.8	40 - 140	30
2,4-DB	ND	2500	47	57	19.2	49	47	4.2	40 - 140	30
Dalapon	ND	130	56	52	7.4	41	37	10.3	40 - 140	30
Dicamba	ND	130	68	67	1.5	60	58	3.4	40 - 140	30
Dichloroprop	ND	130	67	72	7.2	66	63	4.7	40 - 140	30
Dinoseb	ND	130	68	69	1.5	67	64	4.6	40 - 140	30
MCPA	ND	38000	60	67	11.0	59	56	5.2	40 - 140	30
MCPP	ND	38000	60	65	8.0	62	59	5.0	40 - 140	30
% DCAA (Surrogate Rec)	84	%	78	86	9.8	77	75	2.6	30 - 150	30
% DCAA (Surrogate Rec) (Confirm	83	%	78	86	9.8	74	73	1.4	30 - 150	30

Comment:

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 784626 (ug/L), QC Sample No: CT22983 (CT25437, CT25438)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	0.050	74	64	14.5				40 - 140	20
PCB-1221	ND	0.050							40 - 140	20
PCB-1232	ND	0.050							40 - 140	20
PCB-1242	ND	0.050							40 - 140	20
PCB-1248	ND	0.050							40 - 140	20
PCB-1254	ND	0.050							40 - 140	20
PCB-1260	ND	0.050	94	85	10.1				40 - 140	20
PCB-1262	ND	0.050							40 - 140	20
PCB-1268	ND	0.050							40 - 140	20
% DCBP (Surrogate Rec)	73	%	80	72	10.5				30 - 150	20
% DCBP (Surrogate Rec) (Confirm	83	%	89	84	5.8				30 - 150	20

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% TCMX (Surrogate Rec)	63	%	90	78	14.3				30 - 150	20
% TCMX (Surrogate Rec) (Confirm)	64	%	92	79	15.2				30 - 150	20

QA/QC Batch 785274 (ug/Kg), QC Sample No: CT27500 (CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	79	85	7.3	77	76	1.3	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	78	84	7.4	75	73	2.7	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	83	%	89	99	10.6	83	81	2.4	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	95	%	96	110	13.6	88	82	7.1	30 - 150	30
% TCMX (Surrogate Rec)	80	%	82	89	8.2	82	84	2.4	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	84	%	88	95	7.7	87	92	5.6	30 - 150	30

QA/QC Batch 785229 (ug/Kg), QC Sample No: CT30350 (CT25432, CT25433, CT25434, CT25435, CT25436)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	84	89	5.8	52	64	20.7	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	82	86	4.8	49	62	23.4	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	81	%	98	105	6.9	57	71	21.9	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	95	%	104	114	9.2	61	75	20.6	30 - 150	30
% TCMX (Surrogate Rec)	73	%	87	90	3.4	58	65	11.4	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	76	%	92	96	4.3	62	70	12.1	30 - 150	30

QA/QC Batch 784625 (ug/L), QC Sample No: CT24412 (CT25437, CT25438)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	93	86	7.8				40 - 140	20
4,4' -DDE	ND	0.003	96	91	5.3				40 - 140	20
4,4' -DDT	ND	0.003	106	100	5.8				40 - 140	20
a-BHC	ND	0.002	75	74	1.3				40 - 140	20
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20
Aldrin	ND	0.002	52	43	18.9				40 - 140	20
b-BHC	ND	0.002	72	69	4.3				40 - 140	20
Chlordane	ND	0.050	61	56	8.5				40 - 140	20
d-BHC	ND	0.005	60	57	5.1				40 - 140	20
Dieldrin	ND	0.002	92	86	6.7				40 - 140	20
Endosulfan I	ND	0.005	79	76	3.9				40 - 140	20
Endosulfan II	ND	0.005	93	87	6.7				40 - 140	20
Endosulfan sulfate	ND	0.005	83	79	4.9				40 - 140	20
Endrin	ND	0.005	88	83	5.8				40 - 140	20
Endrin aldehyde	ND	0.005	89	84	5.8				40 - 140	20
Endrin ketone	ND	0.005	76	72	5.4				40 - 140	20

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
g-BHC	ND	0.002	90	85	5.7				40 - 140	20
Heptachlor	ND	0.005	72	63	13.3				40 - 140	20
Heptachlor epoxide	ND	0.005	77	74	4.0				40 - 140	20
Methoxychlor	ND	0.005	71	70	1.4				40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20
% DCBP	73	%	78	79	1.3				30 - 150	20
% DCBP (Confirmation)	49	%	50	50	0.0				30 - 150	20
% TCMX	52	%	67	61	9.4				30 - 150	20
% TCMX (Confirmation)	66	%	83	75	10.1				30 - 150	20

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 785275 (ug/Kg), QC Sample No: CT27500 (CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451)

Pesticides - Soil

4,4' -DDD	ND	1.7	80	83	3.7	81	75	7.7	40 - 140	30
4,4' -DDE	ND	1.7	87	94	7.7	86	80	7.2	40 - 140	30
4,4' -DDT	ND	1.7	78	84	7.4	86	94	8.9	40 - 140	30
a-BHC	ND	1.0	72	76	5.4	68	70	2.9	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	72	77	6.7	70	64	9.0	40 - 140	30
b-BHC	ND	1.0	70	75	6.9	55	56	1.8	40 - 140	30
Chlordane	ND	33	79	89	11.9	74	72	2.7	40 - 140	30
d-BHC	ND	3.3	69	66	4.4	54	54	0.0	40 - 140	30
Dieldrin	ND	1.0	76	82	7.6	82	69	17.2	40 - 140	30
Endosulfan I	ND	3.3	71	73	2.8	57	60	5.1	40 - 140	30
Endosulfan II	ND	3.3	72	80	10.5	64	63	1.6	40 - 140	30
Endosulfan sulfate	ND	3.3	76	81	6.4	64	64	0.0	40 - 140	30
Endrin	ND	3.3	83	89	7.0	74	64	14.5	40 - 140	30
Endrin aldehyde	ND	3.3	72	77	6.7	62	60	3.3	40 - 140	30
Endrin ketone	ND	3.3	86	93	7.8	73	67	8.6	40 - 140	30
g-BHC	ND	1.0	75	80	6.5	72	73	1.4	40 - 140	30
Heptachlor	ND	3.3	70	75	6.9	69	69	0.0	40 - 140	30
Heptachlor epoxide	ND	3.3	75	80	6.5	76	79	3.9	40 - 140	30
Methoxychlor	ND	3.3	75	82	8.9	69	69	0.0	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	81	%	78	84	7.4	68	83	19.9	30 - 150	30
% DCBP (Confirmation)	61	%	59	63	6.6	63	57	10.0	30 - 150	30
% TCMX	73	%	70	75	6.9	69	63	9.1	30 - 150	30
% TCMX (Confirmation)	77	%	74	79	6.5	83	78	6.2	30 - 150	30

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 785231 (ug/Kg), QC Sample No: CT30350 (CT25432, CT25433, CT25434, CT25435, CT25436)

Pesticides - Soil

4,4' -DDD	ND	1.7	80	73	9.2	65	72	10.2	40 - 140	30
4,4' -DDE	ND	1.7	76	72	5.4	63	71	11.9	40 - 140	30
4,4' -DDT	ND	1.7	76	72	5.4	60	75	22.2	40 - 140	30
a-BHC	ND	1.0	71	70	1.4	62	68	9.2	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	70	66	5.9	56	64	13.3	40 - 140	30
b-BHC	ND	1.0	69	67	2.9	59	65	9.7	40 - 140	30

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chlordane	ND	33	81	85	4.8	56	64	13.3	40 - 140	30
d-BHC	ND	3.3	67	65	3.0	54	61	12.2	40 - 140	30
Dieldrin	ND	1.0	74	70	5.6	59	67	12.7	40 - 140	30
Endosulfan I	ND	3.3	67	63	6.2	54	61	12.2	40 - 140	30
Endosulfan II	ND	3.3	73	72	1.4	59	66	11.2	40 - 140	30
Endosulfan sulfate	ND	3.3	78	74	5.3	61	69	12.3	40 - 140	30
Endrin	ND	3.3	88	83	5.8	70	79	12.1	40 - 140	30
Endrin aldehyde	ND	3.3	71	67	5.8	50	60	18.2	40 - 140	30
Endrin ketone	ND	3.3	82	79	3.7	63	75	17.4	40 - 140	30
g-BHC	ND	1.0	74	71	4.1	64	69	7.5	40 - 140	30
Heptachlor	ND	3.3	68	65	4.5	54	61	12.2	40 - 140	30
Heptachlor epoxide	ND	3.3	72	69	4.3	60	67	11.0	40 - 140	30
Methoxychlor	ND	3.3	76	71	6.8	58	69	17.3	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	70	%	74	70	5.6	63	74	16.1	30 - 150	30
% DCBP (Confirmation)	49	%	58	55	5.3	45	54	18.2	30 - 150	30
% TCMX	67	%	69	65	6.0	56	63	11.8	30 - 150	30
% TCMX (Confirmation)	76	%	79	74	6.5	64	72	11.8	30 - 150	30

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 785315 (ug/L), QC Sample No: CT30505 (CT25437)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	91	86	5.6				40 - 140	20	
4,4' -DDE	ND	0.003	72	73	1.4				40 - 140	20	
4,4' -DDT	ND	0.003	58	66	12.9				40 - 140	20	
a-BHC	ND	0.002	83	77	7.5				40 - 140	20	
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	22	36	48.3				40 - 140	20	I,r
b-BHC	ND	0.002	78	76	2.6				40 - 140	20	
Chlordane	ND	0.050	58	65	11.4				40 - 140	20	
d-BHC	ND	0.005	57	62	8.4				40 - 140	20	
Dieldrin	ND	0.002	79	77	2.6				40 - 140	20	
Endosulfan I	ND	0.005	67	65	3.0				40 - 140	20	
Endosulfan II	ND	0.005	85	78	8.6				40 - 140	20	
Endosulfan sulfate	ND	0.005	79	74	6.5				40 - 140	20	
Endrin	ND	0.005	96	90	6.5				40 - 140	20	
Endrin aldehyde	ND	0.005	80	70	13.3				40 - 140	20	
Endrin ketone	ND	0.005	80	74	7.8				40 - 140	20	
g-BHC	ND	0.002	81	75	7.7				40 - 140	20	
Heptachlor	ND	0.005	37	50	29.9				40 - 140	20	I,r
Heptachlor epoxide	ND	0.005	78	76	2.6				40 - 140	20	
Methoxychlor	ND	0.005	74	69	7.0				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	77	%	78	73	6.6				30 - 150	20	
% DCBP (Confirmation)	63	%	64	57	11.6				30 - 150	20	
% TCMX	69	%	67	61	9.4				30 - 150	20	
% TCMX (Confirmation)	76	%	76	68	11.1				30 - 150	20	

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 784578 (ug/L), QC Sample No: CT24228 (CT25437, CT25438)										
<u>Semivolatiles - Ground Water</u>										
1,2,4,5-Tetrachlorobenzene	ND	3.5	82	75	8.9				40 - 140	20
1,2,4-Trichlorobenzene	ND	3.5	79	76	3.9				40 - 140	20
1,2-Dichlorobenzene	ND	1.0	72	70	2.8				40 - 140	20
1,2-Diphenylhydrazine	ND	1.6	86	79	8.5				40 - 140	20
1,3-Dichlorobenzene	ND	1.0	69	68	1.5				40 - 140	20
1,4-Dichlorobenzene	ND	1.0	68	66	3.0				40 - 140	20
2,2'-Oxybis(1-Chloropropane)	ND	1.0	67	64	4.6				40 - 140	20
2,4,5-Trichlorophenol	ND	1.0	86	80	7.2				40 - 140	20
2,4,6-Trichlorophenol	ND	1.0	85	79	7.3				30 - 130	20
2,4-Dichlorophenol	ND	1.0	83	78	6.2				30 - 130	20
2,4-Dimethylphenol	ND	1.0	92	83	10.3				30 - 130	20
2,4-Dinitrophenol	ND	1.0	88	77	13.3				30 - 130	20
2,4-Dinitrotoluene	ND	3.5	98	91	7.4				30 - 130	20
2,6-Dinitrotoluene	ND	3.5	97	89	8.6				40 - 140	20
2-Chloronaphthalene	ND	3.5	84	78	7.4				40 - 140	20
2-Chlorophenol	ND	1.0	69	67	2.9				30 - 130	20
2-Methylphenol (o-cresol)	ND	1.0	85	80	6.1				40 - 140	20
2-Nitroaniline	ND	3.5	122	111	9.4				40 - 140	20
2-Nitrophenol	ND	1.0	83	77	7.5				40 - 140	20
3&4-Methylphenol (m&p-cresol)	ND	1.0	82	76	7.6				30 - 130	20
3,3'-Dichlorobenzidine	ND	5.0	55	54	1.8				40 - 140	20
3-Nitroaniline	ND	5.0	105	98	6.9				40 - 140	20
4,6-Dinitro-2-methylphenol	ND	1.0	97	89	8.6				30 - 130	20
4-Bromophenyl phenyl ether	ND	3.5	93	85	9.0				40 - 140	20
4-Chloro-3-methylphenol	ND	1.0	95	85	11.1				30 - 130	20
4-Chloroaniline	ND	3.5	96	90	6.5				40 - 140	20
4-Chlorophenyl phenyl ether	ND	1.0	88	80	9.5				40 - 140	20
4-Nitroaniline	ND	5.0	97	88	9.7				40 - 140	20
4-Nitrophenol	ND	1.0	101	93	8.2				30 - 130	20
Acetophenone	ND	3.5	79	73	7.9				40 - 140	20
Aniline	ND	3.5	78	72	8.0				40 - 140	20
Benzidine	ND	4.5	123	112	9.4				40 - 140	20
Benzoic acid	ND	10	74	59	22.6				30 - 130	20
Benzyl butyl phthalate	ND	1.5	100	90	10.5				40 - 140	20
Bis(2-chloroethoxy)methane	ND	3.5	87	80	8.4				40 - 140	20
Bis(2-chloroethyl)ether	ND	1.0	78	75	3.9				40 - 140	20
Bis(2-ethylhexyl)phthalate	ND	1.5	101	92	9.3				40 - 140	20
Carbazole	ND	5.0	94	87	7.7				40 - 140	20
Dibenzofuran	ND	3.5	86	81	6.0				40 - 140	20
Diethyl phthalate	ND	1.5	96	89	7.6				40 - 140	20
Dimethylphthalate	ND	1.5	89	82	8.2				40 - 140	20
Di-n-butylphthalate	ND	1.5	100	93	7.3				40 - 140	20
Di-n-octylphthalate	ND	1.5	106	95	10.9				40 - 140	20
Hexachloroethane	ND	3.5	70	70	0.0				40 - 140	20
Isophorone	ND	3.5	84	77	8.7				40 - 140	20
N-Nitrosodimethylamine	ND	1.0	67	67	0.0				40 - 140	20
N-Nitrosodi-n-propylamine	ND	3.5	84	75	11.3				40 - 140	20
N-Nitrosodiphenylamine	ND	3.5	75	68	9.8				40 - 140	20
Pentachloronitrobenzene	ND	5.0	95	84	12.3				40 - 140	20
Phenol	ND	1.0	71	70	1.4				30 - 130	20

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% 2,4,6-Tribromophenol	69	%	91	84	8.0				15 - 110	20
% 2-Fluorobiphenyl	67	%	77	72	6.7				30 - 130	20
% 2-Fluorophenol	49	%	54	55	1.8				15 - 110	20
% Nitrobenzene-d5	67	%	74	69	7.0				30 - 130	20
% Phenol-d5	54	%	59	58	1.7				15 - 110	20
% Terphenyl-d14	75	%	86	78	9.8				30 - 130	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 785425 (ug/kg), QC Sample No: CT27050 (CT25450)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	63	58	8.3	60	58	3.4	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	65	59	9.7	61	59	3.3	40 - 140	30
1,2-Dichlorobenzene	ND	180	63	59	6.6	59	56	5.2	40 - 140	30
1,2-Diphenylhydrazine	ND	230	73	66	10.1	67	67	0.0	40 - 140	30
1,3-Dichlorobenzene	ND	230	61	56	8.5	57	54	5.4	40 - 140	30
1,4-Dichlorobenzene	ND	230	60	56	6.9	56	54	3.6	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	55	53	3.7	52	51	1.9	40 - 140	30
2,4,5-Trichlorophenol	ND	230	75	66	12.8	69	67	2.9	40 - 140	30
2,4,6-Trichlorophenol	ND	130	76	66	14.1	68	66	3.0	30 - 130	30
2,4-Dichlorophenol	ND	130	69	63	9.1	65	63	3.1	30 - 130	30
2,4-Dimethylphenol	ND	230	72	66	8.7	66	64	3.1	30 - 130	30
2,4-Dinitrophenol	ND	230	86	79	8.5	78	75	3.9	30 - 130	30
2,4-Dinitrotoluene	ND	130	81	72	11.8	75	73	2.7	30 - 130	30
2,6-Dinitrotoluene	ND	130	79	70	12.1	74	71	4.1	40 - 140	30
2-Chloronaphthalene	ND	230	70	63	10.5	64	63	1.6	40 - 140	30
2-Chlorophenol	ND	230	67	62	7.8	63	60	4.9	30 - 130	30
2-Methylnaphthalene	ND	230	73	67	8.6	70	67	4.4	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	77	69	11.0	68	66	3.0	40 - 140	30
2-Nitroaniline	ND	330	103	94	9.1	95	94	1.1	40 - 140	30
2-Nitrophenol	ND	230	69	63	9.1	64	63	1.6	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	72	65	10.2	65	63	3.1	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	91	78	15.4	82	79	3.7	40 - 140	30
3-Nitroaniline	ND	330	86	76	12.3	81	79	2.5	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	82	75	8.9	76	73	4.0	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	71	63	11.9	67	64	4.6	40 - 140	30
4-Chloro-3-methylphenol	ND	230	77	71	8.1	74	71	4.1	30 - 130	30
4-Chloroaniline	ND	230	66	62	6.3	67	66	1.5	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	74	66	11.4	69	68	1.5	40 - 140	30
4-Nitroaniline	ND	230	82	74	10.3	77	76	1.3	40 - 140	30
4-Nitrophenol	ND	230	74	84	12.7	86	83	3.6	30 - 130	30
Acenaphthene	ND	230	68	61	10.9	63	62	1.6	30 - 130	30
Acenaphthylene	ND	130	59	53	10.7	54	53	1.9	40 - 140	30
Acetophenone	ND	230	65	60	8.0	61	59	3.3	40 - 140	30
Aniline	ND	330	64	60	6.5	58	57	1.7	40 - 140	30
Anthracene	ND	230	69	62	10.7	66	63	4.7	40 - 140	30
Benz(a)anthracene	ND	230	71	62	13.5	66	64	3.1	40 - 140	30
Benzidine	ND	330	73	73	0.0	27	27	0.0	40 - 140	30 m
Benzo(a)pyrene	ND	130	73	65	11.6	69	67	2.9	40 - 140	30
Benzo(b)fluoranthene	ND	160	70	62	12.1	64	61	4.8	40 - 140	30
Benzo(ghi)perylene	ND	230	74	67	9.9	65	60	8.0	40 - 140	30

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(k)fluoranthene	ND	230	68	61	10.9	61	58	5.0	40 - 140	30
Benzoic Acid	ND	670	90	79	13.0	75	68	9.8	30 - 130	30
Benzyl butyl phthalate	ND	230	85	74	13.8	79	74	6.5	40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	66	61	7.9	61	60	1.7	40 - 140	30
Bis(2-chloroethyl)ether	ND	130	63	59	6.6	60	58	3.4	40 - 140	30
Bis(2-ethylhexyl)phthalate	ND	230	83	71	15.6	76	72	5.4	40 - 140	30
Carbazole	ND	230	75	67	11.3	71	68	4.3	40 - 140	30
Chrysene	ND	230	75	66	12.8	69	66	4.4	40 - 140	30
Dibenz(a,h)anthracene	ND	130	79	70	12.1	72	68	5.7	40 - 140	30
Dibenzofuran	ND	230	70	64	9.0	66	64	3.1	40 - 140	30
Diethyl phthalate	ND	230	78	71	9.4	73	71	2.8	40 - 140	30
Dimethylphthalate	ND	230	76	68	11.1	71	69	2.9	40 - 140	30
Di-n-butylphthalate	ND	670	78	69	12.2	71	67	5.8	40 - 140	30
Di-n-octylphthalate	ND	230	93	84	10.2	82	80	2.5	40 - 140	30
Fluoranthene	ND	230	69	60	14.0	65	61	6.3	40 - 140	30
Fluorene	ND	230	71	64	10.4	66	64	3.1	40 - 140	30
Hexachlorobenzene	ND	130	75	67	11.3	70	69	1.4	40 - 140	30
Hexachlorobutadiene	ND	230	64	58	9.8	60	58	3.4	40 - 140	30
Hexachlorocyclopentadiene	ND	230	53	47	12.0	45	41	9.3	40 - 140	30
Hexachloroethane	ND	130	65	60	8.0	61	58	5.0	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	80	71	11.9	73	69	5.6	40 - 140	30
Isophorone	ND	130	65	60	8.0	62	60	3.3	40 - 140	30
Naphthalene	ND	230	60	55	8.7	58	55	5.3	40 - 140	30
Nitrobenzene	ND	130	67	63	6.2	63	61	3.2	40 - 140	30
N-Nitrosodimethylamine	ND	230	64	58	9.8	53	53	0.0	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	70	65	7.4	66	64	3.1	40 - 140	30
N-Nitrosodiphenylamine	ND	130	72	65	10.2	67	65	3.0	40 - 140	30
Pentachloronitrobenzene	ND	230	75	66	12.8	70	68	2.9	40 - 140	30
Pentachlorophenol	ND	230	76	66	14.1	69	65	6.0	30 - 130	30
Phenanthrene	ND	130	70	63	10.5	67	64	4.6	40 - 140	30
Phenol	ND	230	77	71	8.1	73	71	2.8	30 - 130	30
Pyrene	ND	230	64	56	13.3	60	56	6.9	30 - 130	30
Pyridine	ND	230	49	45	8.5	42	42	0.0	40 - 140	30
% 2,4,6-Tribromophenol	86	%	81	73	10.4	74	75	1.3	30 - 130	30
% 2-Fluorobiphenyl	73	%	69	61	12.3	62	64	3.2	30 - 130	30
% 2-Fluorophenol	67	%	72	65	10.2	64	64	0.0	30 - 130	30
% Nitrobenzene-d5	72	%	65	59	9.7	59	59	0.0	30 - 130	30
% Phenol-d5	68	%	70	63	10.5	65	65	0.0	30 - 130	30
% Terphenyl-d14	58	%	59	49	18.5	53	50	5.8	30 - 130	30

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 785273 (ug/kg), QC Sample No: CT32096 (CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25451)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	63	60	4.9	50	58	14.8	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	63	57	10.0	50	57	13.1	40 - 140	30
1,2-Dichlorobenzene	ND	180	60	53	12.4	50	56	11.3	40 - 140	30
1,2-Diphenylhydrazine	ND	230	68	68	0.0	55	64	15.1	40 - 140	30
1,3-Dichlorobenzene	ND	230	58	50	14.8	45	51	12.5	40 - 140	30
1,4-Dichlorobenzene	ND	230	58	51	12.8	47	53	12.0	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	52	47	10.1	47	52	10.1	40 - 140	30

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,4,5-Trichlorophenol	ND	230	73	72	1.4	55	62	12.0	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	72	73	1.4	52	59	12.6	30 - 130	30	
2,4-Dichlorophenol	ND	130	70	68	2.9	55	63	13.6	30 - 130	30	
2,4-Dimethylphenol	ND	230	72	72	0.0	63	69	9.1	30 - 130	30	
2,4-Dinitrophenol	ND	230	81	77	5.1	32	28	13.3	30 - 130	30	m
2,4-Dinitrotoluene	ND	130	79	78	1.3	62	72	14.9	30 - 130	30	
2,6-Dinitrotoluene	ND	130	76	77	1.3	61	71	15.2	40 - 140	30	
2-Chloronaphthalene	ND	230	66	65	1.5	53	61	14.0	40 - 140	30	
2-Chlorophenol	ND	230	68	63	7.6	55	63	13.6	30 - 130	30	
2-Methylnaphthalene	ND	230	75	70	6.9	62	71	13.5	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	79	76	3.9	71	78	9.4	40 - 140	30	
2-Nitroaniline	ND	330	96	98	2.1	85	93	9.0	40 - 140	30	
2-Nitrophenol	ND	230	64	62	3.2	46	51	10.3	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	73	71	2.8	65	74	12.9	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	92	92	0.0	52	66	23.7	40 - 140	30	
3-Nitroaniline	ND	330	88	88	0.0	72	81	11.8	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	79	77	2.6	38	33	14.1	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	68	68	0.0	55	63	13.6	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	79	78	1.3	67	73	8.6	30 - 130	30	
4-Chloroaniline	ND	230	70	70	0.0	62	68	9.2	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	70	70	0.0	53	62	15.7	40 - 140	30	
4-Nitroaniline	ND	230	76	79	3.9	65	74	12.9	40 - 140	30	
4-Nitrophenol	ND	230	75	77	2.6	61	67	9.4	30 - 130	30	
Acenaphthene	ND	230	63	64	1.6	50	57	13.1	30 - 130	30	
Acenaphthylene	ND	130	56	56	0.0	46	52	12.2	40 - 140	30	
Acetophenone	ND	230	66	60	9.5	58	65	11.4	40 - 140	30	
Aniline	ND	330	63	60	4.9	47	56	17.5	40 - 140	30	
Anthracene	ND	230	67	66	1.5	55	65	16.7	40 - 140	30	
Benz(a)anthracene	ND	230	65	66	1.5	51	61	17.9	40 - 140	30	
Benzidine	ND	330	69	88	24.2	11	25	77.8	40 - 140	30	m,r
Benzo(a)pyrene	ND	130	68	69	1.5	44	57	25.7	40 - 140	30	
Benzo(b)fluoranthene	ND	160	63	65	3.1	46	58	23.1	40 - 140	30	
Benzo(ghi)perylene	ND	230	59	61	3.3	27	42	43.5	40 - 140	30	m,r
Benzo(k)fluoranthene	ND	230	63	65	3.1	49	57	15.1	40 - 140	30	
Benzoic Acid	ND	670	88	84	4.7	15	<10	NC	30 - 130	30	m
Benzyl butyl phthalate	ND	230	77	81	5.1	60	72	18.2	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	65	63	3.1	54	61	12.2	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	60	56	6.9	52	58	10.9	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	78	80	2.5	60	74	20.9	40 - 140	30	
Carbazole	ND	230	74	74	0.0	63	72	13.3	40 - 140	30	
Chrysene	ND	230	71	71	0.0	53	64	18.8	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	69	70	1.4	34	48	34.1	40 - 140	30	m,r
Dibenzofuran	ND	230	68	67	1.5	56	64	13.3	40 - 140	30	
Diethyl phthalate	ND	230	74	76	2.7	62	69	10.7	40 - 140	30	
Dimethylphthalate	ND	230	73	74	1.4	59	67	12.7	40 - 140	30	
Di-n-butylphthalate	ND	670	71	73	2.8	53	60	12.4	40 - 140	30	
Di-n-octylphthalate	ND	230	83	86	3.6	57	66	14.6	40 - 140	30	
Fluoranthene	ND	230	64	65	1.6	50	60	18.2	40 - 140	30	
Fluorene	ND	230	67	67	0.0	53	62	15.7	40 - 140	30	
Hexachlorobenzene	ND	130	69	69	0.0	42	52	21.3	40 - 140	30	
Hexachlorobutadiene	ND	230	60	55	8.7	47	53	12.0	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	39	40	2.5	<10	<10	NC	40 - 140	30	l,m
Hexachloroethane	ND	130	61	53	14.0	48	55	13.6	40 - 140	30	

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Indeno(1,2,3-cd)pyrene	ND	230	68	68	0.0	29	44	41.1	40 - 140	30	m,r
Isophorone	ND	130	64	62	3.2	53	59	10.7	40 - 140	30	
Naphthalene	ND	230	59	54	8.8	49	56	13.3	40 - 140	30	
Nitrobenzene	ND	130	66	61	7.9	59	68	14.2	40 - 140	30	
N-Nitrosodimethylamine	ND	230	54	47	13.9	38	39	2.6	40 - 140	30	m
N-Nitrosodi-n-propylamine	ND	130	68	64	6.1	61	69	12.3	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	70	70	0.0	57	64	11.6	40 - 140	30	
Pentachloronitrobenzene	ND	230	69	70	1.4	47	57	19.2	40 - 140	30	
Pentachlorophenol	ND	230	75	75	0.0	53	54	1.9	30 - 130	30	
Phenanthrene	ND	130	67	68	1.5	57	67	16.1	40 - 140	30	
Phenol	ND	230	78	76	2.6	69	76	9.7	30 - 130	30	
Pyrene	ND	230	60	61	1.7	46	54	16.0	30 - 130	30	
Pyridine	ND	230	38	38	0.0	31	32	3.2	40 - 140	30	l,m
% 2,4,6-Tribromophenol	81	%	72	68	5.7	58	75	25.6	30 - 130	30	
% 2-Fluorobiphenyl	70	%	62	55	12.0	48	61	23.9	30 - 130	30	
% 2-Fluorophenol	64	%	69	58	17.3	42	54	25.0	30 - 130	30	
% Nitrobenzene-d5	69	%	62	52	17.5	53	67	23.3	30 - 130	30	
% Phenol-d5	66	%	69	61	12.3	57	71	21.9	30 - 130	30	
% Terphenyl-d14	57	%	52	49	5.9	33	42	24.0	30 - 130	30	

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 784578 (ug/L), QC Sample No: CT24228 (CT25437, CT25438)

Semivolatiles (SIM) - Ground Water

2-Methylnaphthalene	ND	0.50	70	65	7.4				30 - 130	20	
Acenaphthene	ND	0.50	73	68	7.1				30 - 130	20	
Acenaphthylene	ND	0.50	66	60	9.5				30 - 130	20	
Anthracene	ND	0.50	86	76	12.3				30 - 130	20	
Benz(a)anthracene	ND	0.50	87	75	14.8				30 - 130	20	
Benzo(a)pyrene	ND	0.50	92	81	12.7				30 - 130	20	
Benzo(b)fluoranthene	ND	0.50	90	83	8.1				30 - 130	20	
Benzo(ghi)perylene	ND	0.50	83	76	8.8				30 - 130	20	
Benzo(k)fluoranthene	ND	0.50	94	88	6.6				30 - 130	20	
Chrysene	ND	0.50	82	73	11.6				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.50	97	88	9.7				30 - 130	20	
Fluoranthene	ND	0.50	87	76	13.5				30 - 130	20	
Fluorene	ND	0.50	79	72	9.3				30 - 130	20	
Hexachlorobenzene	ND	0.50	74	66	11.4				30 - 130	20	
Hexachlorobutadiene	ND	0.50	66	63	4.7				30 - 130	20	
Hexachlorocyclopentadiene	ND	0.50	29	25	14.8				30 - 130	20	l
Indeno(1,2,3-cd)pyrene	ND	0.50	92	81	12.7				30 - 130	20	
Naphthalene	ND	0.50	77	71	8.1				30 - 130	20	
Nitrobenzene	ND	0.50	68	75	9.8				30 - 130	20	
Pentachlorophenol	ND	0.50	92	79	15.2				30 - 130	20	
Phenanthrene	ND	0.50	72	65	10.2				30 - 130	20	
Pyrene	ND	0.50	86	76	12.3				30 - 130	20	
Pyridine	ND	0.50	51	48	6.1				30 - 130	20	
% 2,4,6-Tribromophenol	75	%	93	80	15.0				15 - 110	20	
% 2-Fluorobiphenyl	65	%	64	58	9.8				30 - 130	20	
% 2-Fluorophenol	56	%	56	54	3.6				15 - 110	20	
% Nitrobenzene-d5	71	%	74	69	7.0				30 - 130	20	
% Phenol-d5	56	%	57	55	3.6				15 - 110	20	

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Terphenyl-d14	84	%	80	70	13.3				30 - 130	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 784350 (ug/L), QC Sample No: CT24826 (CT25437, CT25438, CT25440)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	115	105	9.1				70 - 130	20
1,1,1-Trichloroethane	ND	1.0	97	99	2.0				70 - 130	20
1,1,2,2-Tetrachloroethane	ND	0.50	96	89	7.6				70 - 130	20
1,1,2-Trichloroethane	ND	1.0	98	95	3.1				70 - 130	20
1,1-Dichloroethane	ND	1.0	100	102	2.0				70 - 130	20
1,1-Dichloroethene	ND	1.0	94	95	1.1				70 - 130	20
1,1-Dichloropropene	ND	1.0	97	89	8.6				70 - 130	20
1,2,3-Trichlorobenzene	ND	1.0	97	96	1.0				70 - 130	20
1,2,3-Trichloropropane	ND	1.0	96	89	7.6				70 - 130	20
1,2,4-Trichlorobenzene	ND	1.0	105	100	4.9				70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0	110	102	7.5				70 - 130	20
1,2-Dibromo-3-chloropropane	ND	1.0	97	95	2.1				70 - 130	20
1,2-Dibromoethane	ND	1.0	116	109	6.2				70 - 130	20
1,2-Dichlorobenzene	ND	1.0	106	97	8.9				70 - 130	20
1,2-Dichloroethane	ND	1.0	100	93	7.3				70 - 130	20
1,2-Dichloropropane	ND	1.0	100	93	7.3				70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	107	99	7.8				70 - 130	20
1,3-Dichlorobenzene	ND	1.0	106	97	8.9				70 - 130	20
1,3-Dichloropropane	ND	1.0	110	102	7.5				70 - 130	20
1,4-Dichlorobenzene	ND	1.0	108	99	8.7				70 - 130	20
1,4-dioxane	ND	100	100	92	8.3				70 - 130	20
2,2-Dichloropropane	ND	1.0	104	110	5.6				70 - 130	20
2-Chlorotoluene	ND	1.0	108	97	10.7				70 - 130	20
2-Hexanone	ND	5.0	83	84	1.2				70 - 130	20
2-Isopropyltoluene	ND	1.0	113	102	10.2				70 - 130	20
4-Chlorotoluene	ND	1.0	106	96	9.9				70 - 130	20
4-Methyl-2-pentanone	ND	5.0	84	81	3.6				70 - 130	20
Acetone	ND	5.0	74	78	5.3				70 - 130	20
Acrylonitrile	ND	5.0	113	124	9.3				70 - 130	20
Benzene	ND	0.70	105	96	9.0				70 - 130	20
Bromobenzene	ND	1.0	101	95	6.1				70 - 130	20
Bromochloromethane	ND	1.0	102	105	2.9				70 - 130	20
Bromodichloromethane	ND	0.50	101	93	8.2				70 - 130	20
Bromoform	ND	1.0	119	112	6.1				70 - 130	20
Bromomethane	ND	1.0	91	86	5.6				70 - 130	20
Carbon Disulfide	ND	1.0	97	97	0.0				70 - 130	20
Carbon tetrachloride	ND	1.0	98	99	1.0				70 - 130	20
Chlorobenzene	ND	1.0	116	105	10.0				70 - 130	20
Chloroethane	ND	1.0	99	97	2.0				70 - 130	20
Chloroform	ND	1.0	101	103	2.0				70 - 130	20
Chloromethane	ND	1.0	100	102	2.0				70 - 130	20
cis-1,2-Dichloroethene	ND	1.0	106	112	5.5				70 - 130	20
cis-1,3-Dichloropropene	ND	0.40	103	100	3.0				70 - 130	20
Dibromochloromethane	ND	0.50	113	107	5.5				70 - 130	20
Dibromomethane	ND	1.0	96	87	9.8				70 - 130	20

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dichlorodifluoromethane	ND	1.0	98	98	0.0				70 - 130	20
Ethyl ether	ND	1.0	92	94	2.2				70 - 130	20
Ethyl tert-butyl ether	ND	1.0	102	105	2.9				70 - 130	20
Ethylbenzene	ND	1.0	119	110	7.9				70 - 130	20
Hexachlorobutadiene	ND	0.40	92	89	3.3				70 - 130	20
Isopropylbenzene	ND	1.0	110	98	11.5				70 - 130	20
m&p-Xylene	ND	1.0	122	112	8.5				70 - 130	20
Methyl ethyl ketone	ND	5.0	80	95	17.1				70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	95	99	4.1				70 - 130	20
Methylene chloride	ND	1.0	93	95	2.1				70 - 130	20
Naphthalene	ND	1.0	100	98	2.0				70 - 130	20
n-Butylbenzene	ND	1.0	108	98	9.7				70 - 130	20
n-Propylbenzene	ND	1.0	110	99	10.5				70 - 130	20
o-Xylene	ND	1.0	123	114	7.6				70 - 130	20
p-Isopropyltoluene	ND	1.0	112	104	7.4				70 - 130	20
sec-Butylbenzene	ND	1.0	111	99	11.4				70 - 130	20
Styrene	ND	1.0	130	119	8.8				70 - 130	20
tert-amyl methyl ether	ND	1.0	102	96	6.1				70 - 130	20
tert-Butylbenzene	ND	1.0	109	101	7.6				70 - 130	20
Tetrachloroethene	ND	1.0	95	90	5.4				70 - 130	20
Tetrahydrofuran (THF)	ND	2.5	80	92	14.0				70 - 130	20
Toluene	ND	1.0	102	93	9.2				70 - 130	20
trans-1,2-Dichloroethene	ND	1.0	98	99	1.0				70 - 130	20
trans-1,3-Dichloropropene	ND	0.40	103	97	6.0				70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	109	105	3.7				70 - 130	20
Trichloroethene	ND	1.0	104	98	5.9				70 - 130	20
Trichlorofluoromethane	ND	1.0	86	86	0.0				70 - 130	20
Trichlorotrifluoroethane	ND	1.0	88	87	1.1				70 - 130	20
Vinyl chloride	ND	1.0	93	95	2.1				70 - 130	20
% 1,2-dichlorobenzene-d4	103	%	97	93	4.2				70 - 130	20
% Bromofluorobenzene	93	%	106	104	1.9				70 - 130	20
% Dibromofluoromethane	112	%	98	108	9.7				70 - 130	20
% Toluene-d8	98	%	91	90	1.1				70 - 130	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 784526 (ug/kg), QC Sample No: CT25363 (CT25451)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	99	102	3.0	95	98	3.1	70 - 130	20	
1,1,1-Trichloroethane	ND	5.0	106	113	6.4	102	108	5.7	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	3.0	97	100	3.0	100	105	4.9	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	102	106	3.8	99	102	3.0	70 - 130	20	
1,1-Dichloroethane	ND	5.0	103	108	4.7	102	106	3.8	70 - 130	20	
1,1-Dichloroethene	ND	5.0	108	113	4.5	104	108	3.8	70 - 130	20	
1,1-Dichloropropene	ND	5.0	104	108	3.8	98	102	4.0	70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0	100	98	2.0	67	67	0.0	70 - 130	20	m
1,2,3-Trichloropropane	ND	5.0	102	106	3.8	100	96	4.1	70 - 130	20	
1,2,4-Trichlorobenzene	ND	5.0	96	95	1.0	69	71	2.9	70 - 130	20	m
1,2,4-Trimethylbenzene	ND	1.0	98	99	1.0	92	95	3.2	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0	107	111	3.7	92	102	10.3	70 - 130	20	
1,2-Dibromoethane	ND	5.0	99	103	4.0	96	98	2.1	70 - 130	20	

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2-Dichlorobenzene	ND	5.0	103	103	0.0	91	94	3.2	70 - 130	20
1,2-Dichloroethane	ND	5.0	106	109	2.8	104	107	2.8	70 - 130	20
1,2-Dichloropropane	ND	5.0	104	106	1.9	100	104	3.9	70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	99	101	2.0	94	97	3.1	70 - 130	20
1,3-Dichlorobenzene	ND	5.0	98	98	0.0	88	91	3.4	70 - 130	20
1,3-Dichloropropane	ND	5.0	99	101	2.0	97	98	1.0	70 - 130	20
1,4-Dichlorobenzene	ND	5.0	102	102	0.0	90	93	3.3	70 - 130	20
1,4-dioxane	ND	100	108	97	10.7	94	95	1.1	70 - 130	20
2,2-Dichloropropane	ND	5.0	108	115	6.3	101	104	2.9	70 - 130	20
2-Chlorotoluene	ND	5.0	100	102	2.0	94	98	4.2	70 - 130	20
2-Hexanone	ND	25	91	95	4.3	70	75	6.9	70 - 130	20
2-Isopropyltoluene	ND	5.0	104	107	2.8	97	98	1.0	70 - 130	20
4-Chlorotoluene	ND	5.0	100	101	1.0	94	97	3.1	70 - 130	20
4-Methyl-2-pentanone	ND	25	101	107	5.8	88	94	6.6	70 - 130	20
Acetone	ND	10	102	113	10.2	82	87	5.9	70 - 130	20
Acrylonitrile	ND	5.0	100	106	5.8	80	84	4.9	70 - 130	20
Benzene	ND	1.0	101	104	2.9	96	99	3.1	70 - 130	20
Bromobenzene	ND	5.0	102	104	1.9	99	102	3.0	70 - 130	20
Bromochloromethane	ND	5.0	100	106	5.8	100	104	3.9	70 - 130	20
Bromodichloromethane	ND	5.0	103	106	2.9	99	103	4.0	70 - 130	20
Bromoform	ND	5.0	97	101	4.0	88	91	3.4	70 - 130	20
Bromomethane	ND	5.0	102	110	7.5	96	96	0.0	70 - 130	20
Carbon Disulfide	ND	5.0	105	110	4.7	99	99	0.0	70 - 130	20
Carbon tetrachloride	ND	5.0	108	114	5.4	104	108	3.8	70 - 130	20
Chlorobenzene	ND	5.0	102	104	1.9	95	97	2.1	70 - 130	20
Chloroethane	ND	5.0	109	111	1.8	109	111	1.8	70 - 130	20
Chloroform	ND	5.0	100	105	4.9	99	102	3.0	70 - 130	20
Chloromethane	ND	5.0	108	113	4.5	102	105	2.9	70 - 130	20
cis-1,2-Dichloroethene	ND	5.0	104	108	3.8	101	104	2.9	70 - 130	20
cis-1,3-Dichloropropene	ND	5.0	106	110	3.7	99	103	4.0	70 - 130	20
Dibromochloromethane	ND	3.0	102	104	1.9	98	101	3.0	70 - 130	20
Dibromomethane	ND	5.0	105	110	4.7	102	106	3.8	70 - 130	20
Dichlorodifluoromethane	ND	5.0	120	123	2.5	116	115	0.9	70 - 130	20
Diethyl ether	ND	5.0	102	106	3.8	106	108	1.9	70 - 130	20
Ethyl tert-butyl ether	ND	5.0	101	106	4.8	107	109	1.9	70 - 130	20
Ethylbenzene	ND	1.0	99	100	1.0	92	93	1.1	70 - 130	20
Hexachlorobutadiene	ND	5.0	105	105	0.0	64	64	0.0	70 - 130	20
Isopropylbenzene	ND	1.0	103	105	1.9	100	102	2.0	70 - 130	20
m&p-Xylene	ND	2.0	97	98	1.0	90	91	1.1	70 - 130	20
Methyl ethyl ketone	ND	5.0	92	104	12.2	77	86	11.0	70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	104	111	6.5	92	104	12.2	70 - 130	20
Methylene chloride	ND	5.0	94	99	5.2	111	111	0.0	70 - 130	20
Naphthalene	ND	5.0	101	102	1.0	73	75	2.7	70 - 130	20
n-Butylbenzene	ND	1.0	103	103	0.0	86	88	2.3	70 - 130	20
n-Propylbenzene	ND	1.0	101	104	2.9	95	98	3.1	70 - 130	20
o-Xylene	ND	2.0	100	101	1.0	94	96	2.1	70 - 130	20
p-Isopropyltoluene	ND	1.0	102	103	1.0	93	92	1.1	70 - 130	20
sec-Butylbenzene	ND	1.0	102	104	1.9	90	93	3.3	70 - 130	20
Styrene	ND	5.0	95	96	1.0	83	83	0.0	70 - 130	20
tert-amyl methyl ether	ND	5.0	102	104	1.9	103	106	2.9	70 - 130	20
tert-Butylbenzene	ND	1.0	103	105	1.9	97	100	3.0	70 - 130	20
Tetrachloroethene	ND	5.0	104	108	3.8	94	97	3.1	70 - 130	20
Tetrahydrofuran (THF)	ND	5.0	96	104	8.0	87	94	7.7	70 - 130	20

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Toluene	ND	1.0	103	106	2.9	97	100	3.0	70 - 130	20
trans-1,2-Dichloroethene	ND	5.0	109	114	4.5	103	105	1.9	70 - 130	20
trans-1,3-Dichloropropene	ND	5.0	109	109	0.0	100	103	3.0	70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	104	107	2.8	91	97	6.4	70 - 130	20
Trichloroethene	ND	5.0	108	111	2.7	97	101	4.0	70 - 130	20
Trichlorofluoromethane	ND	5.0	113	118	4.3	108	110	1.8	70 - 130	20
Trichlorotrifluoroethane	ND	5.0	108	112	3.6	102	102	0.0	70 - 130	20
Vinyl chloride	ND	5.0	112	118	5.2	107	112	4.6	70 - 130	20
% 1,2-dichlorobenzene-d4	95	%	102	103	1.0	100	101	1.0	70 - 130	20
% Bromofluorobenzene	100	%	100	100	0.0	100	99	1.0	70 - 130	20
% Dibromofluoromethane	102	%	96	102	6.1	98	101	3.0	70 - 130	20
% Toluene-d8	90	%	101	102	1.0	100	102	2.0	70 - 130	20

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 784371 (ug/kg), QC Sample No: CT25896 (CT25432, CT25433, CT25434, CT25435, CT25436, CT25439, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	96	98	2.1	91	90	1.1	70 - 130	20	
1,1,1-Trichloroethane	ND	5.0	108	112	3.6	106	104	1.9	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	3.0	111	112	0.9	120	116	3.4	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	112	115	2.6	108	103	4.7	70 - 130	20	
1,1-Dichloroethane	ND	5.0	112	117	4.4	111	110	0.9	70 - 130	20	
1,1-Dichloroethene	ND	5.0	106	113	6.4	106	105	0.9	70 - 130	20	
1,1-Dichloropropene	ND	5.0	114	115	0.9	107	107	0.0	70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0	100	103	3.0	62	62	0.0	70 - 130	20	m
1,2,3-Trichloropropane	ND	5.0	115	115	0.0	116	116	0.0	70 - 130	20	
1,2,4-Trichlorobenzene	ND	5.0	98	100	2.0	68	67	1.5	70 - 130	20	m
1,2,4-Trimethylbenzene	ND	1.0	108	110	1.8	114	112	1.8	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0	96	99	3.1	89	88	1.1	70 - 130	20	
1,2-Dibromoethane	ND	5.0	105	107	1.9	100	97	3.0	70 - 130	20	
1,2-Dichlorobenzene	ND	5.0	105	106	0.9	96	94	2.1	70 - 130	20	
1,2-Dichloroethane	ND	5.0	112	111	0.9	108	104	3.8	70 - 130	20	
1,2-Dichloropropane	ND	5.0	115	114	0.9	110	109	0.9	70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	109	110	0.9	117	117	0.0	70 - 130	20	
1,3-Dichlorobenzene	ND	5.0	104	105	1.0	98	99	1.0	70 - 130	20	
1,3-Dichloropropane	ND	5.0	109	112	2.7	107	105	1.9	70 - 130	20	
1,4-Dichlorobenzene	ND	5.0	101	103	2.0	97	96	1.0	70 - 130	20	
1,4-dioxane	ND	100	103	107	3.8	106	103	2.9	70 - 130	20	
2,2-Dichloropropane	ND	5.0	94	97	3.1	88	88	0.0	70 - 130	20	
2-Chlorotoluene	ND	5.0	108	110	1.8	111	111	0.0	70 - 130	20	
2-Hexanone	ND	25	90	90	0.0	52	52	0.0	70 - 130	20	m
2-Isopropyltoluene	ND	5.0	110	112	1.8	112	112	0.0	70 - 130	20	
4-Chlorotoluene	ND	5.0	107	108	0.9	108	106	1.9	70 - 130	20	
4-Methyl-2-pentanone	ND	25	100	102	2.0	77	74	4.0	70 - 130	20	
Acetone	ND	10	110	114	3.6	97	93	4.2	70 - 130	20	
Acrylonitrile	ND	5.0	105	110	4.7	85	82	3.6	70 - 130	20	
Benzene	ND	1.0	114	115	0.9	110	107	2.8	70 - 130	20	
Bromobenzene	ND	5.0	105	105	0.0	105	106	0.9	70 - 130	20	
Bromochloromethane	ND	5.0	115	119	3.4	111	109	1.8	70 - 130	20	
Bromodichloromethane	ND	5.0	111	113	1.8	105	104	1.0	70 - 130	20	
Bromoform	ND	5.0	92	96	4.3	79	77	2.6	70 - 130	20	
Bromomethane	ND	5.0	118	119	0.8	97	99	2.0	70 - 130	20	

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Carbon Disulfide	ND	5.0	111	117	5.3	105	104	1.0	70 - 130	20
Carbon tetrachloride	ND	5.0	100	104	3.9	91	93	2.2	70 - 130	20
Chlorobenzene	ND	5.0	105	106	0.9	100	99	1.0	70 - 130	20
Chloroethane	ND	5.0	126	134	6.2	123	124	0.8	70 - 130	20
Chloroform	ND	5.0	119	123	3.3	117	113	3.5	70 - 130	20
Chloromethane	ND	5.0	112	118	5.2	107	106	0.9	70 - 130	20
cis-1,2-Dichloroethene	ND	5.0	118	122	3.3	121	118	2.5	70 - 130	20
cis-1,3-Dichloropropene	ND	5.0	108	109	0.9	95	93	2.1	70 - 130	20
Dibromochloromethane	ND	3.0	103	105	1.9	95	94	1.1	70 - 130	20
Dibromomethane	ND	5.0	110	112	1.8	105	100	4.9	70 - 130	20
Dichlorodifluoromethane	ND	5.0	118	124	5.0	111	110	0.9	70 - 130	20
Diethyl ether	ND	5.0	114	116	1.7	114	110	3.6	70 - 130	20
Ethyl tert-butyl ether	ND	5.0	102	105	2.9	103	101	2.0	70 - 130	20
Ethylbenzene	ND	1.0	106	108	1.9	103	102	1.0	70 - 130	20
Hexachlorobutadiene	ND	5.0	97	102	5.0	75	79	5.2	70 - 130	20
Isopropylbenzene	ND	1.0	110	111	0.9	117	119	1.7	70 - 130	20
m&p-Xylene	ND	2.0	101	104	2.9	98	97	1.0	70 - 130	20
Methyl ethyl ketone	ND	5.0	101	109	7.6	86	86	0.0	70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	106	109	2.8	105	102	2.9	70 - 130	20
Methylene chloride	ND	5.0	99	104	4.9	96	95	1.0	70 - 130	20
Naphthalene	ND	5.0	108	109	0.9	71	69	2.9	70 - 130	20
n-Butylbenzene	ND	1.0	113	117	3.5	106	100	5.8	70 - 130	20
n-Propylbenzene	ND	1.0	107	111	3.7	115	116	0.9	70 - 130	20
o-Xylene	ND	2.0	105	107	1.9	102	100	2.0	70 - 130	20
p-Isopropyltoluene	ND	1.0	108	110	1.8	108	107	0.9	70 - 130	20
sec-Butylbenzene	ND	1.0	111	113	1.8	114	114	0.0	70 - 130	20
Styrene	ND	5.0	104	106	1.9	93	92	1.1	70 - 130	20
tert-amyl methyl ether	ND	5.0	99	100	1.0	97	93	4.2	70 - 130	20
tert-Butylbenzene	ND	1.0	107	109	1.9	112	114	1.8	70 - 130	20
Tetrachloroethene	ND	5.0	101	104	2.9	97	95	2.1	70 - 130	20
Tetrahydrofuran (THF)	ND	5.0	105	108	2.8	103	96	7.0	70 - 130	20
Toluene	ND	1.0	110	112	1.8	105	103	1.9	70 - 130	20
trans-1,2-Dichloroethene	ND	5.0	107	113	5.5	106	104	1.9	70 - 130	20
trans-1,3-Dichloropropene	ND	5.0	103	104	1.0	89	87	2.3	70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	93	95	2.1	79	79	0.0	70 - 130	20
Trichloroethene	ND	5.0	104	108	3.8	99	98	1.0	70 - 130	20
Trichlorofluoromethane	ND	5.0	120	126	4.9	118	116	1.7	70 - 130	20
Trichlorotrifluoroethane	ND	5.0	103	110	6.6	102	100	2.0	70 - 130	20
Vinyl chloride	ND	5.0	111	115	3.5	108	107	0.9	70 - 130	20
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	97	98	1.0	70 - 130	20
% Bromofluorobenzene	100	%	102	102	0.0	96	96	0.0	70 - 130	20
% Dibromofluoromethane	98	%	97	97	0.0	98	96	2.1	70 - 130	20
% Toluene-d8	101	%	105	106	0.9	104	105	1.0	70 - 130	20

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 784371H (ug/kg), QC Sample No: CT25896 50X (CT25441 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	93	89	4.4	82	82	0.0	70 - 130	20
1,1,1-Trichloroethane	ND	250	106	105	0.9	99	98	1.0	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	250	113	108	4.5	110	104	5.6	70 - 130	20
1,1,2-Trichloroethane	ND	250	112	109	2.7	109	104	4.7	70 - 130	20
1,1-Dichloroethane	ND	250	111	109	1.8	113	109	3.6	70 - 130	20

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1-Dichloroethene	ND	250	76	76	0.0	85	69	20.8	70 - 130	20	m,r
1,1-Dichloropropene	ND	250	116	113	2.6	115	111	3.5	70 - 130	20	
1,2,3-Trichlorobenzene	ND	250	105	102	2.9	98	99	1.0	70 - 130	20	
1,2,3-Trichloropropane	ND	250	108	104	3.8	107	91	16.2	70 - 130	20	
1,2,4-Trichlorobenzene	ND	250	107	104	2.8	99	100	1.0	70 - 130	20	
1,2,4-Trimethylbenzene	ND	250	112	110	1.8	109	106	2.8	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	250	90	86	4.5	82	80	2.5	70 - 130	20	
1,2-Dibromoethane	ND	250	102	102	0.0	98	97	1.0	70 - 130	20	
1,2-Dichlorobenzene	ND	250	105	103	1.9	102	101	1.0	70 - 130	20	
1,2-Dichloroethane	ND	250	108	106	1.9	107	104	2.8	70 - 130	20	
1,2-Dichloropropane	ND	250	112	110	1.8	110	109	0.9	70 - 130	20	
1,3,5-Trimethylbenzene	ND	250	111	108	2.7	109	105	3.7	70 - 130	20	
1,3-Dichlorobenzene	ND	250	109	105	3.7	104	102	1.9	70 - 130	20	
1,3-Dichloropropane	ND	250	110	107	2.8	108	107	0.9	70 - 130	20	
1,4-Dichlorobenzene	ND	250	105	102	2.9	101	100	1.0	70 - 130	20	
1,4-dioxane	ND	5000	105	99	5.9	97	97	0.0	70 - 130	20	
2,2-Dichloropropane	ND	250	87	92	5.6	71	79	10.7	70 - 130	20	
2-Chlorotoluene	ND	250	111	107	3.7	107	104	2.8	70 - 130	20	
2-Hexanone	ND	1300	84	82	2.4	83	79	4.9	70 - 130	20	
2-Isopropyltoluene	ND	250	112	109	2.7	109	106	2.8	70 - 130	20	
4-Chlorotoluene	ND	250	110	107	2.8	106	103	2.9	70 - 130	20	
4-Methyl-2-pentanone	ND	1300	96	93	3.2	95	91	4.3	70 - 130	20	
Acetone	ND	500	78	74	5.3	84	69	19.6	70 - 130	20	m
Acrylonitrile	ND	250	100	100	0.0	103	97	6.0	70 - 130	20	
Benzene	ND	250	113	111	1.8	113	110	2.7	70 - 130	20	
Bromobenzene	ND	250	106	102	3.8	103	98	5.0	70 - 130	20	
Bromochloromethane	ND	250	112	108	3.6	111	109	1.8	70 - 130	20	
Bromodichloromethane	ND	250	105	101	3.9	99	96	3.1	70 - 130	20	
Bromoform	ND	250	82	76	7.6	71	68	4.3	70 - 130	20	m
Bromomethane	ND	250	70	69	1.4	74	66	11.4	70 - 130	20	I,m
Carbon Disulfide	ND	250	78	77	1.3	84	70	18.2	70 - 130	20	
Carbon tetrachloride	ND	250	87	86	1.2	74	74	0.0	70 - 130	20	
Chlorobenzene	ND	250	106	103	2.9	103	102	1.0	70 - 130	20	
Chloroethane	ND	250	17	18	5.7	62	47	27.5	70 - 130	20	I,m,r
Chloroform	ND	250	117	116	0.9	117	112	4.4	70 - 130	20	
Chloromethane	ND	250	111	110	0.9	109	106	2.8	70 - 130	20	
cis-1,2-Dichloroethene	ND	250	118	108	8.8	118	113	4.3	70 - 130	20	
cis-1,3-Dichloropropene	ND	250	104	101	2.9	93	93	0.0	70 - 130	20	
Dibromochloromethane	ND	150	96	91	5.3	86	83	3.6	70 - 130	20	
Dibromomethane	ND	250	108	106	1.9	104	101	2.9	70 - 130	20	
Dichlorodifluoromethane	ND	250	120	119	0.8	111	107	3.7	70 - 130	20	
Diethyl ether	ND	250	61	61	0.0	73	55	28.1	70 - 130	20	I,m,r
Ethyl tert-butyl ether	ND	250	103	102	1.0	97	98	1.0	70 - 130	20	
Ethylbenzene	ND	250	108	106	1.9	106	103	2.9	70 - 130	20	
Hexachlorobutadiene	ND	250	106	102	3.8	102	99	3.0	70 - 130	20	
Isopropylbenzene	ND	250	112	109	2.7	109	105	3.7	70 - 130	20	
m&p-Xylene	ND	250	104	103	1.0	103	102	1.0	70 - 130	20	
Methyl ethyl ketone	ND	250	99	100	1.0	102	96	6.1	70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	250	103	100	3.0	102	99	3.0	70 - 130	20	
Methylene chloride	ND	250	91	87	4.5	93	84	10.2	70 - 130	20	
Naphthalene	ND	250	105	103	1.9	100	99	1.0	70 - 130	20	
n-Butylbenzene	ND	250	120	117	2.5	116	114	1.7	70 - 130	20	
n-Propylbenzene	ND	250	113	109	3.6	110	107	2.8	70 - 130	20	

QA/QC Data

SDG I.D.: GCT25432

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
o-Xylene	ND	250	108	106	1.9	105	104	1.0	70 - 130	20
p-Isopropyltoluene	ND	250	112	110	1.8	110	107	2.8	70 - 130	20
sec-Butylbenzene	ND	250	114	111	2.7	112	109	2.7	70 - 130	20
Styrene	ND	250	107	105	1.9	103	102	1.0	70 - 130	20
tert-amyl methyl ether	ND	250	100	98	2.0	92	94	2.2	70 - 130	20
tert-Butylbenzene	ND	250	110	107	2.8	107	104	2.8	70 - 130	20
Tetrachloroethene	ND	250	104	103	1.0	100	100	0.0	70 - 130	20
Tetrahydrofuran (THF)	ND	250	107	104	2.8	102	104	1.9	70 - 130	20
Toluene	ND	250	112	110	1.8	111	107	3.7	70 - 130	20
trans-1,2-Dichloroethene	ND	250	105	102	2.9	107	101	5.8	70 - 130	20
trans-1,3-Dichloropropene	ND	250	95	94	1.1	85	85	0.0	70 - 130	20
trans-1,4-dichloro-2-butene	ND	250	84	81	3.6	74	71	4.1	70 - 130	20
Trichloroethene	ND	250	102	101	1.0	100	98	2.0	70 - 130	20
Trichlorofluoromethane	ND	250	56	60	6.9	71	53	29.0	70 - 130	20
Trichlorotrifluoroethane	ND	250	85	81	4.8	91	74	20.6	70 - 130	20
Vinyl chloride	ND	250	107	105	1.9	107	102	4.8	70 - 130	20
% 1,2-dichlorobenzene-d4	100	%	101	100	1.0	101	100	1.0	70 - 130	20
% Bromofluorobenzene	100	%	104	103	1.0	103	103	0.0	70 - 130	20
% Dibromofluoromethane	95	%	95	97	2.1	93	92	1.1	70 - 130	20
% Toluene-d8	101	%	106	105	0.9	105	105	0.0	70 - 130	20

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

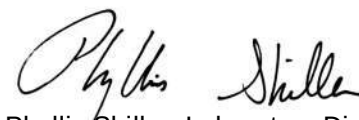
l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference
- (ISO) - Isotope Dilution



Phyllis Shiller, Laboratory Director

May 27, 2025

Tuesday, May 27, 2025

Criteria: CT: GAM, GWP, RC, SWP

State: CT

Sample Criteria Exceedances Report

GCT25432 - FO-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CT25436	SPLP-PB	SPLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.040	0.010	0.015	0.015	mg/L
CT25436	SPLP-PB	SPLP Lead	CT / RSR GWPC (ug/l) / Inorganics	0.040	0.010	0.015	0.015	mg/L
CT25436	SPLP-PB	SPLP Lead	CT / RSR SWPC (ug/l) / Inorganics	0.040	0.010	0.013	0.013	mg/L
CT25437	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CT25437	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CT25437	\$RCPADD-WM	1,4-Dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/L
CT25437	AS-WM	Arsenic	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.081	0.004	0.05	0.05	mg/L
CT25437	AS-WM	Arsenic	CT / RSR GWPC (ug/l) / Inorganics	0.081	0.004	0.05	0.05	mg/L
CT25437	AS-WM	Arsenic	CT / RSR SWPC (ug/l) / Inorganics	0.081	0.004	0.004	0.004	mg/L
CT25437	BA-WM	Barium	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	5.05	0.002	1	1	mg/L
CT25437	BA-WM	Barium	CT / RSR GWPC (ug/l) / Inorganics	5.05	0.002	1	1	mg/L
CT25437	BA-WM	Barium	CT / RSR SWPC (ug/l) / APS Inorganics	5.05	0.002	2.2	2.2	mg/L
CT25437	CD-WM	Cadmium	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.020	0.001	0.005	0.005	mg/L
CT25437	CD-WM	Cadmium	CT / RSR GWPC (ug/l) / Inorganics	0.020	0.001	0.005	0.005	mg/L
CT25437	CD-WM	Cadmium	CT / RSR SWPC (ug/l) / Inorganics	0.020	0.001	0.006	0.006	mg/L
CT25437	CR-WM	Chromium	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.564	0.001	0.05	0.05	mg/L
CT25437	CR-WM	Chromium	CT / RSR GWPC (ug/l) / Inorganics	0.564	0.001	0.05	0.05	mg/L
CT25437	CU-WM	Copper	CT / RSR SWPC (ug/l) / Inorganics	0.243	0.005	0.048	0.048	mg/L
CT25437	NI-WM	Nickel	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.434	0.001	0.1	0.1	mg/L
CT25437	NI-WM	Nickel	CT / RSR GWPC (ug/l) / Inorganics	0.434	0.001	0.1	0.1	mg/L
CT25437	PB-WM	Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.299	0.001	0.015	0.015	mg/L
CT25437	PB-WM	Lead	CT / RSR GWPC (ug/l) / Inorganics	0.299	0.001	0.015	0.015	mg/L
CT25437	PB-WM	Lead	CT / RSR SWPC (ug/l) / Inorganics	0.299	0.001	0.013	0.013	mg/L
CT25437	ZN-WM	Zinc	CT / RSR SWPC (ug/l) / Inorganics	0.945	0.004	0.123	0.123	mg/L
CT25438	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CT25438	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CT25438	\$RCPADD-WM	1,4-Dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/L
CT25438	CR-WM	Chromium	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.072	0.001	0.05	0.05	mg/L
CT25438	CR-WM	Chromium	CT / RSR GWPC (ug/l) / Inorganics	0.072	0.001	0.05	0.05	mg/L
CT25438	CU-WM	Copper	CT / RSR SWPC (ug/l) / Inorganics	0.452	0.005	0.048	0.048	mg/L
CT25438	NI-WM	Nickel	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.109	0.001	0.1	0.1	mg/L
CT25438	NI-WM	Nickel	CT / RSR GWPC (ug/l) / Inorganics	0.109	0.001	0.1	0.1	mg/L
CT25440	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CT25440	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CT25440	\$RCPADD-WM	1,4-Dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/L
CT25442	SPLP-AS	SPLP Arsenic	CT / RSR SWPC (ug/l) / Inorganics	0.006	0.004	0.004	0.004	mg/L
CT25442	SPLP-PB	SPLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.063	0.010	0.015	0.015	mg/L
CT25442	SPLP-PB	SPLP Lead	CT / RSR GWPC (ug/l) / Inorganics	0.063	0.010	0.015	0.015	mg/L
CT25442	SPLP-PB	SPLP Lead	CT / RSR SWPC (ug/l) / Inorganics	0.063	0.010	0.013	0.013	mg/L

Tuesday, May 27, 2025

Criteria: CT: GAM, GWP, RC, SWP

State: CT

Sample Criteria Exceedances Report

GCT25432 - FO-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CT25442	TCLP-PB	TCLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.055	0.010	0.015	0.015	mg/L
CT25442	TCLP-PB	TCLP Lead	CT / RSR GWPC (ug/l) / Inorganics	0.055	0.010	0.015	0.015	mg/L
CT25442	TCLP-PB	TCLP Lead	CT / RSR SWPC (ug/l) / Inorganics	0.055	0.010	0.013	0.013	mg/L
CT25442	TCLP-ZN	TCLP Zinc	CT / RSR SWPC (ug/l) / Inorganics	0.223	0.010	0.123	0.123	mg/L
CT25446	SPLP-AS	SPLP Arsenic	CT / RSR SWPC (ug/l) / Inorganics	0.013	0.004	0.004	0.004	mg/L
CT25446	SPLP-BA	SPLP Barium	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	1.87	0.010	1	1	mg/L
CT25446	SPLP-BA	SPLP Barium	CT / RSR GWPC (ug/l) / Inorganics	1.87	0.010	1	1	mg/L
CT25446	SPLP-PB	SPLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.085	0.010	0.015	0.015	mg/L
CT25446	SPLP-PB	SPLP Lead	CT / RSR GWPC (ug/l) / Inorganics	0.085	0.010	0.015	0.015	mg/L
CT25446	SPLP-PB	SPLP Lead	CT / RSR SWPC (ug/l) / Inorganics	0.085	0.010	0.013	0.013	mg/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Bureau of Water Protection and Land Reuse
Remediation Division

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name Phoenix Environmental Labs, Inc.	Client Name Fuss & O'Neill, Inc.
Project Location DOT SOUTHTON REST AREA	Project No.
Sampling Date(s) 5/12/2025, 5/9/2025	Laboratory Sample ID(s): CT25432-CT25451

LIST RCP METHODS USED (e.g., 8260, 8270, etc.) 1311/1312, 6010, 7470/7471, 8081, 8082, 8151, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method-specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (see respective RCPs)	☐ Yes ☐ No ☒ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature ($\leq 6^{\circ}\text{C}$)? <i>If samples were received by the laboratory on the same day of collection and were stored and transported to the laboratory on ice, cooler temperatures above 6°C are acceptable.</i>	☒ Yes ☐ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ICP Narration, PEST Narration, SVOA Narration, SVOASIM Narration, VOA	☐ Yes ☒ No
5	Were reporting limits / limits of quantitation specified or referenced on the chain-of-custody?	☒ Yes ☐ No
5a	Were these reporting limits / limits of quantitation met?	☐ Yes ☒ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set for applicable RCPs?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered, and all questions must be answered.

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.

Authorized Signature:

Position: Laboratory Director

Printed Name:

Phyllis Shiller

Date: Tuesday, May 27, 2025

Name of Laboratory

Phoenix Environmental Laboratory, Inc.

This certification form is to be used for RCP methods only.



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RCP Certification Report

May 27, 2025

SDG I.D.: GCT25432

SDG Comments

Volatile 8260 analysis:

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet the GWP these compounds are analyzed by GC/ECD to achieve this criteria.

Volatile 8260 analysis:

1,4-Dioxane does not meet the GWP. This compound is analyzed by method 522 or 8270SIM to achieve this criteria.

Metals Analysis: CT25437, CT25438 -

The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Thallium, Vanadium.

Cyanide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 05/21/25-1

Nicholas Pappas, Greg Danielewski, Chemist 05/21/25

CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451

The samples were distilled in accordance with the method.

The initial calibration met criteria.

The calibration check standards (ICV,CCV) met criteria.

The initial and continuing calibration blanks (ICB,CCB) met criteria.

The method blank, laboratory control sample (LCS), and matrix spike (MS) were distilled with the samples.

QC (Batch Specific):

Batch 785376 (CT25344)

CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional: MS acceptance range is 75-125%.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID11 05/20/25-1

Jeff Bucko, Chemist 05/20/25

CT25436 (1X), CT25443 (1X), CT25444 (1X), CT25445 (1X), CT25446 (1X), CT25447 (1X)

The initial calibration (ETPH428I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (520A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CT25436, CT25443, CT25444, CT25445, CT25446, CT25447

Preceding CC 520A028 - % COD (surr) 40%H (30%), % Terphenyl (surr) 44%H (30%)

Succeeding CC 520A040 - % COD (surr) 50%H (30%), % Terphenyl (surr) 52%H (30%)



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RCP Certification Report

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SDG I.D.: GCT25432

ETPH Narration

AU-FID84 05/21/25-1 Jeff Bucko, Chemist 05/21/25

CT25448 (1X), CT25449 (1X), CT25450 (1X), CT25451 (1X)

The initial calibration (ET_519I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (521A003_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

AU-XL2 05/17/25-1 Jeff Bucko, Chemist 05/17/25

CT25437 (1X), CT25438 (1X)

The initial calibration (ETPH516I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (517A005) and contained the following outliers: c36 23.8%L (20%)
The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CT25437, CT25438

Preceding CC 517A018 - None.

Succeeding CC 517A030 - ETPH (C9-C36) 33%H (30%)

AU-XL2 05/20/25-1 Jeff Bucko, Chemist 05/20/25

CT25432 (1X), CT25433 (1X), CT25434 (1X), CT25435 (1X), CT25442 (1X)

The initial calibration (ETPH516I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (520A003_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

QC (Batch Specific):

Batch 784812 (CT25501)

CT25437, CT25438

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 785235 (CT25855)

CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 785272 (CT29400)

CT25448, CT25449, CT25450, CT25451

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

The MS/MSD could not be reported due to the presence of ETPH in the original sample.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.



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SDG I.D.: GCT25432

Herbicide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD2 05/15/25-1

Jeff Bucko, Chemist 05/15/25

CT25437 (1X, 10X), CT25438 (1X)

The initial calibration (HRB515AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (HRB515BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CT25437, CT25438

Preceding CC 515A012 - 2,4,5-T (11) 25%H (20%), 2,4,5-TP (10) 22%H (20%), 2,4-DB (12) 29%H (20%), Dinoseb 24%H (20%), MCPA (6) 21%H (20%), MCPP (5) 24%H (20%)

Succeeding CC 515A025 - 2,4,5-T (11) 25%H (20%), 2,4,5-TP (10) 21%H (20%), 2,4-DB (12) 30%H (20%), Dinoseb 32%H (20%), MCPA (6) 22%H (20%), MCPP (5) 25%H (20%)

AU-ECD2 05/19/25-1

Jeff Bucko, Chemist 05/19/25

CT25432 (10X), CT25433 (10X), CT25434 (10X), CT25435 (10X), CT25436 (10X), CT25442 (10X), CT25443 (10X), CT25444 (10X), CT25445 (10X), CT25446 (10X), CT25447 (10X), CT25448 (10X), CT25449 (10X), CT25450 (10X), CT25451 (10X)

The initial calibration (HRB519AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (HRB519BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CT25432, CT25433, CT25434, CT25435

Preceding CC 519B012 - Dinoseb 23%H (20%)

Succeeding CC 519B025 - 2,4,5-T (11) 26%H (20%), 2,4,5-TP (10) 22%H (20%), 2,4-D (8) 21%H (20%), 2,4-DB (12) 21%H (20%), Dinoseb 24%H (20%)

Samples: CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447

Preceding CC 519B025 - 2,4,5-T (11) 26%H (20%), 2,4,5-TP (10) 22%H (20%), 2,4-D (8) 21%H (20%), 2,4-DB (12) 21%H (20%), Dinoseb 24%H (20%)

Succeeding CC 519B037 - 2,4,5-T (11) 30%H (20%), 2,4,5-TP (10) 22%H (20%), 2,4-D (8) 21%H (20%), 2,4-DB (12) 27%H (20%), Dinoseb 28%H (20%)

Samples: CT25448, CT25449, CT25450, CT25451

Preceding CC 519B096 - 2,4,5-T (11) 31%H (20%), 2,4,5-TP (10) 27%H (20%), 2,4-D (8) 25%H (20%), 2,4-DB (12) 25%H (20%), Dinoseb 29%H (20%), MCPA (6) 23%H (20%), MCPP (5) 21%H (20%)

Succeeding CC 519B108 - 2,4,5-T (11) 25%H (20%), 2,4,5-TP (10) 24%H (20%), Dinoseb 24%H (20%)

QC (Batch Specific):

Batch 784262 (CT25437)

CT25437, CT25438

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

Batch 784947 (CT30387)

CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.



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SDG I.D.: GCT25432

Herbicide Narration

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QC (Site Specific):

Batch 785069 (CT25449)

CT25448, CT25449, CT25450, CT25451

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 30 - 150 with the following exceptions: None.

All MSD recoveries were within 30 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

PSA 05/14/25 05:52

John Maslak, Zade-Anne Taylor, Chemist 05/14/25

CT25447, CT25448, CT25449, CT25450, CT25451

The initial calibration met criteria and the linear range is defined daily by the calibration range.

The Low-Level Calibration Verification (LLCV) met criteria.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

PSA 05/15/25 06:15

John Maslak, Zade-Anne Taylor, Chemist 05/15/25

CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451

The initial calibration met criteria and the linear range is defined daily by the calibration range.

The Low-Level Calibration Verification (LLCV) met criteria.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

PSA 05/16/25 05:49

John Maslak, Zade-Anne Taylor, Chemist 05/16/25

CT25437, CT25438

The initial calibration met criteria and the linear range is defined daily by the calibration range.

The Low-Level Calibration Verification (LLCV) met criteria.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.



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Mercury Narration

QC (Batch Specific):

Batch 784078 (CT24848)

CT25432, CT25433, CT25434, CT25435, CT25436, CT25442

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

Batch 784079 (CT27000)

CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

Batch 784307 (CT25007)

CT25438

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

Batch 784499 (CT28090)

CT25437

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

Batch 784573 (CT22519)

CT25437, CT25438

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

QC (Site Specific):

Batch 784069 (CT25433)

CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

Batch 784070 (CT25447)

CT25447, CT25448, CT25449, CT25450, CT25451

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.



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Mercury Narration

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 783978 (Samples: CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias for these analyte is possible. (Antimony, Selenium)

Instrument:

ARCOS-2 05/14/25 12:49

Tina Hall, Chemist 05/14/25

CT25437, CT25438

The initial calibration met criteria and the linear range is defined daily by the calibration range.

The Low-Level Calibration Verification (LLCV) met criteria.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.

The following Spectral Interference Check compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

ARCOS-3 05/13/25 11:50

Tina Hall, Chemist 05/13/25

CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451

The initial calibration met criteria and the linear range is defined daily by the calibration range.

The Low-Level Calibration Verification (LLCV) met criteria.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.

The following Spectral Interference Check compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

ARCOS-4 05/13/25 11:51

Cindy Pearce, Tina Hall, Chemist 05/13/25

CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451

The initial calibration met criteria and the linear range is defined daily by the calibration range.

The Low-Level Calibration Verification (LLCV) met criteria.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.

The following Spectral Interference Check compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

ARCOS-4 05/14/25 12:31

Cindy Pearce, Tina Hall, Chemist 05/14/25

CT25432, CT25433, CT25437, CT25438

The initial calibration met criteria and the linear range is defined daily by the calibration range.

The Low-Level Calibration Verification (LLCV) met criteria.



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ICP Metals Narration

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.
The following Spectral Interference Check compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 784081 (CT25262)

CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

Batch 784190 (CT25501)

CT25437, CT25438

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

Batch 784382 (CT25029)

CT25437, CT25438

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QC (Site Specific):

Batch 783978 (CT25432)

CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: Antimony(61.9%), Selenium(72.3%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

Batch 784075 (CT25432)

CT25432



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ICP Metals Narration

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

Batch 784076 (CT25434)

CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451
All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD29 05/21/25-1 Saadia Chudary, Chemist 05/21/25

CT25432 (10X), CT25433 (10X), CT25434 (10X), CT25435 (10X), CT25451 (10X)

The initial calibration (PC0520AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0520BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds: None.

AU-ECD3 05/21/25-1 Saadia Chudary, Chemist 05/21/25

CT25442 (10X), CT25444 (10X), CT25445 (10X), CT25446 (10X), CT25448 (10X), CT25449 (10X), CT25450 (10X)

The initial calibration (PC0325AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0325BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds: None.

AU-ECD48 05/16/25-1 Saadia Chudary, Chemist 05/16/25

CT25437 (1X), CT25438 (1X)

The initial calibration (PC0414AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0414BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds: None.

AU-ECD7 05/21/25-1 Saadia Chudary, Chemist 05/21/25

CT25436 (10X), CT25443 (10X), CT25447 (10X)

The initial calibration (PC0430AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0430BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds: None.

QC (Batch Specific):

Batch 784626 (CT22983)

CT25437, CT25438



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PCB Narration

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Batch 785229 (CT30350)

CT25432, CT25433, CT25434, CT25435, CT25436

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Batch 785274 (CT27500)

CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 785315 (Samples: CT25437): -----

The LCS/LCSD is below the method criteria. A low bias for this analyte is possible. (Aldrin)

The LCS recovery is below the method criteria. A low bias for this analyte is possible. (Heptachlor)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Aldrin, Heptachlor)

Instrument:

AU-ECD33 05/19/25-1

Adam Werner, Chemist 05/19/25

CT25437 (1X), CT25438 (1X)

The initial calibration (PS0411AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0411BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CT25437, CT25438

Preceding CC 519B037 - Endrin aldehyde 22%H (20%)
Succeeding CC 519B050 - Endrin aldehyde 28%H (20%)

AU-ECD35 05/21/25-1

Adam Werner, Chemist 05/21/25

CT25432 (2X), CT25433 (2X), CT25434 (2X), CT25435 (2X), CT25436 (2X), CT25442 (2X), CT25443 (2X), CT25444 (2X), CT25445 (2X),
CT25446 (2X), CT25447 (2X), CT25448 (2X), CT25449 (2X), CT25450 (2X), CT25451 (2X)

The initial calibration (AC0428AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (AC0428BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:



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PEST Narration

Samples: CT25432, CT25433, CT25434, CT25435

Preceding CC 521B026 - Endosulfan II -25%L (20%)

Succeeding CC 521B039 - Endosulfan II -23%L (20%), Methoxychlor -28%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CT25442, CT25443, CT25444, CT25445, CT25447, CT25448, CT25449, CT25451

Preceding CC 521B039 - Endosulfan II -23%L (20%), Methoxychlor -28%L (20%)

Succeeding CC 521B053 - Endrin Ketone 21%H (20%), Methoxychlor -24%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CT25436, CT25446, CT25450

Preceding CC 521B053 - Endrin Ketone 21%H (20%), Methoxychlor -24%L (20%)

Succeeding CC 521B066 - Endrin aldehyde 26%H (20%), Methoxychlor -34%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

QC (Batch Specific):

Batch 784625 (CT24412)

CT25437, CT25438

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

Batch 785231 (CT30350)

CT25432, CT25433, CT25434, CT25435, CT25436

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

Batch 785275 (CT27500)

CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450, CT25451

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

Batch 785315 (CT30505)

CT25437

All LCS recoveries were within 40 - 140 with the following exceptions: Aldrin(22%), Heptachlor(37%)

All LCSD recoveries were within 40 - 140 with the following exceptions: Aldrin(36%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: Aldrin(48.3%), Heptachlor(29.9%)

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.



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PEST Narration

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 784578 (Samples: CT25437, CT25438): -----

The LCS/LCSD RPD exceeds the method criteria for one analyte, but this analyte was not reported in the sample(s) so no variability is suspected. (Benzoic acid)

QC Batch 785273 (Samples: CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25451): -----

The LCS recovery is below the lower range. A low bias for this analyte is possible. (Hexachlorocyclopentadiene)

The QC recoveries for one analyte is below the lower range. A low bias for this analyte is possible. (Pyridine)

Instrument:

CHEM06 05/20/25-2

Robert Looney, Chemist 05/20/25

CT25432 (1X), CT25433 (1X), CT25434 (1X), CT25435 (1X), CT25443 (1X), CT25444 (1X), CT25445 (1X), CT25447 (1X), CT25448 (1X), CT25449 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_SVFULL_0520):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

Continuing Calibration Verification (CHEM06/0520_26-6_SVFULL_0520):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

CHEM06 05/21/25-3

Adam Werner, Chemist 05/21/25

CT25450 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_SVFULL_0520):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

Continuing Calibration Verification (CHEM06/0521_22-6_SVFULL_0520):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.



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SVOA Narration

97% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 2-Nitroaniline 24%L (20%), Benzoic acid 34%H (20%), Pentachlorophenol 22%H (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

CHEM19 05/19/25-1

Matt Richard, Chemist 05/19/25

CT25437 (1X), CT25438 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_SVFULL_0509):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.052 (0.1)

Continuing Calibration Verification (CHEM19/0519_03-19_SVFULL_0509):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

98% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 2-Nitroaniline 29%L (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.057 (0.1)

CHEM28 05/21/25-1

Keith Aloisa, Chemist 05/21/25

CT25436 (1X), CT25451 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM28/28_SVFULL_0516):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.068 (0.1), Hexachlorobenzene 0.086 (0.1)

Continuing Calibration Verification (CHEM28/0521_03-28_SVFULL_0516):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

98% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Benzyl butyl phthalate 22%H (20%), Di-n-octylphthalate 22%H (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.072 (0.1), Hexachlorobenzene 0.084 (0.1)

CHEM29 05/20/25-2

Robert Looney, Chemist 05/20/25

CT25442 (1X), CT25446 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.



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SVOA Narration

Initial Calibration Evaluation (CHEM29/29_SVFull_0519):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.062 (0.1), Hexachlorobenzene 0.088 (0.1)

Continuing Calibration Verification (CHEM29/0520_22-29_SVFull_0519):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

96% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 2-Nitroaniline 24%L (20%), Benzoic acid 23%L (20%), N-Nitrosodimethylamine 27%L (20%), Pyridine 26%L (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.060 (0.1), Hexachlorobenzene 0.082 (0.1)

QC (Batch Specific):

Batch 784578 (CT24228)

CT25437, CT25438

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: Benzoic acid(22.6%)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 785273 (CT32096)

CT25432, CT25433, CT25434, CT25435, CT25436, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25451

All LCS recoveries were within 40 - 140 with the following exceptions: Hexachlorocyclopentadiene(39%), Pyridine(38%)

All LCSD recoveries were within 40 - 140 with the following exceptions: Pyridine(38%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 785425 (CT27050)

CT25450

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 784578 (Samples: CT25437, CT25438): -----

The LCS/LCSD is below the lower range. A low bias for this analyte is possible. (Hexachlorocyclopentadiene)

Instrument:



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SVOASIM Narration

CHEM69 05/19/25-1

Matt Richard, Chemist 05/19/25

CT25437 (1X), CT25438 (1X)

Initial Calibration Evaluation (CHEM69/69_SIM18_0513):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

Continuing Calibration Verification (CHEM69/0519_03-69_SIM18_0513):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

QC (Batch Specific):

Batch 784578 (CT24228)

CT25437, CT25438

All LCS recoveries were within 30 - 130 with the following exceptions: Hexachlorocyclopentadiene(29%)

All LCSD recoveries were within 30 - 130 with the following exceptions: Hexachlorocyclopentadiene(25%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 784371 (Samples: CT25432, CT25433, CT25434, CT25435, CT25436, CT25439, CT25442, CT25443, CT25444, CT25445, CT25446, CT25447, CT25448, CT25449, CT25450): -----

The LCSD recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (Chloroethane)

QC Batch 784371H: -----

Several QC recoveries are below the lower range. A low bias for these analytes is possible. (Bromomethane, Diethyl ether, Trichlorofluoromethane)

The QC recoveries for one analyte is below the method criteria. A low bias for this analyte is possible. (Chloroethane)

Instrument:

CHEM02 05/12/25-1

Michael Hahn, Chemist 05/12/25

CT25437 (1X), CT25438 (1X), CT25440 (1X)

Initial Calibration Evaluation (CHEM02/VT-050825):

95% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,1,2-Trichloroethane 21% (20%), 4-Methyl-2-pentanone 27% (20%), trans-1,3-



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VOA Narration

Dichloropropene 25% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: None.

Continuing Calibration Verification (CHEM02/0512_02-VT-050825):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

94% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Acetone 21%L (20%), Ethylbenzene 22%H (20%), m&p-Xylene 22%H (20%), o-Xylene 26%H (20%), Styrene 29%H (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM14 05/14/25-1

Jane Li, Chemist 05/14/25

CT25451 (1X)

Initial Calibration Evaluation (CHEM14/VT050925):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

Continuing Calibration Verification (CHEM14/0514_01-VT050925):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 05/13/25-2

Jane Li, Chemist 05/13/25

CT25432 (1X), CT25433 (1X), CT25434 (1X), CT25435 (1X), CT25436 (1X), CT25439 (1X), CT25441 (50X), CT25442 (1X), CT25443 (1X), CT25444 (1X), CT25445 (1X), CT25446 (1X), CT25447 (1X), CT25448 (1X), CT25449 (1X), CT25450 (1X)

Initial Calibration Evaluation (CHEM31/VT-050625):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.180 (0.2)

Continuing Calibration Verification (CHEM31/0513_38-VT-050625):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Chloroethane 24%H (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 784350 (CT24826)

CHEM02 5/12/2025-1

CT25437(1X), CT25438(1X), CT25440(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.



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RCP Certification Report

May 27, 2025

SDG I.D.: GCT25432

VOA Narration

Batch 784371 (CT25896) CHEM31 5/13/2025-2

CT25432(1X), CT25433(1X), CT25434(1X), CT25435(1X), CT25436(1X), CT25439(1X), CT25442(1X), CT25443(1X), CT25444(1X), CT25445(1X), CT25446(1X), CT25447(1X), CT25448(1X), CT25449(1X), CT25450(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(134%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 784371H (CT25896) CHEM31 5/13/2025-2

CT25441(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(17%), Diethyl ether(61%), Trichlorofluoromethane(56%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(69%), Chloroethane(18%), Diethyl ether(61%), Trichlorofluoromethane(60%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 784526 (CT25363) CHEM14 5/14/2025-1

CT25451(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 1.3C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

GCT25432

Analytical Parameter Request

Project #: 20210730.A62		Date Sampled: 5/9/2025	
Project Name: Southington Rest Area		Date Submitted: 5/11/25	
Laboratory: Phoenix		Submitter: Fuss & O'Neill, Inc.	

Report To: Fuss & O'Neill, Inc.	Attention: Ethan Stewart

Invoice to: Fuss & O'Neill, Inc. Mailing Address: 59 Elm Street, Suite 500 City, State, Zip: New Haven, Connecticut, 06510	Special Instructions:
Attention: Ethan Stewart Phone #: (203) 751-2816	

COC #	Sample ID	COC #	Sample ID	COC #	Sample ID
46891	1960250509-B-18(1-3)	46892	1960250509-B-5(1-3)	46892	1960250512-B-7(1-3)
	-B-19(2-4)		-B-5(4-6)		-B-7(3-5)
	-B-20(3-5)		-B-8(1-3)		1960250512-B-4(0-2)
	-B-21(1-3)		-B-8(3-5)		
	-B-24(2-4)		-B-9(1-3)		
			-B-9(3-5)		
			-B-9(4-6)		

Comments: ASD&C, GAPMC	Blank(s) included in sample	1
	Duplicate(s) included in sample	0

Requested Parameters

- Extractable Petroleum Hydrocarbons (ETPH) by Connecticut ETPH Method
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270
- Volatile Organic Compounds (VOCs) by EPA Method 8260
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Chlorinated Pesticides by EPA Method 8081
- Chlorinated Herbicides by EPA Method 8151
- MCP 14 Metals by EPA Method 6010/7471
- SPLP RCRA 8 Metals + copper, nickel, zinc by EPA Method 6000/7000
- TCLP RCRA 8 Metals + copper, nickel, zinc by EPA Method 1311/6010/7470
- Specific Conductance
- Ignitability by EPA Method 1010
- Corrosivity (pH) by EPA Method 6040
- Reactivity (sulfide/cyanide) by SW846

SOIL

GCT 25432

Analytical Parameter Request

Project #: 20210730.A62		Date Sampled: 5/18/2025
Project Name: Southington Rest Area		Date Submitted:
Laboratory: Phoenix		Submitter: Fuss & O'Neill, Inc.



Report To: Fuss & O'Neill, Inc.	Attention: Ethan Stewart

Invoice to: Fuss & O'Neill, Inc. Mailing Address: 59 Elm Street, Suite 500 City, State, Zip: New Haven, Connecticut, 06510	Attention: Ethan Stewart Phone #: (203) 751-2816

COC #	Sample ID	COC #	Sample ID	COC #	Sample ID
46892	1960250512-MW4				
	↑				
	↑				

Comments:	Blank(s) included in sample		Duplicate(s) included in sample
	1		0

Requested Parameters

- Extractable Petroleum Hydrocarbons (ETPH) by Connecticut ETPH Method
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270
- Volatile Organic Compounds (VOCs) by EPA Method 8260
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Chlorinated Pesticides by EPA Method 8081
- Chlorinated Herbicides by EPA Method 8151
- Total and Dissolved RCRA 8 Metals + copper, nickel, zinc by EPA Method 6000/7000

Groundwater

Sarah Bell

From: Ethan Stewart <Ethan.Stewart@fando.com>
Sent: Tuesday, May 13, 2025 8:56 AM
To: Sarah Bell
Subject: FW: Phoenix Labs - GCT25432, DOT SOUTHLINGTON REST AREA - COC Acknowledgement
Attachments: Sample Acknowledgement.pdf

Sarah-

The attached/referenced project is DAS Pricing.

Thanks

Ethan Stewart, CHMM
Senior Environmental Scientist

FUSS & O'NEILL
Solve better. **Go further.**

(475) 273-1085 | cell: (203) 751-2816
59 Elm Street Suite 500 | New Haven, CT 06510

CT MA ME NH NY RI VT

www.FandO.com | [Instagram](#) | [Vimeo](#) | [Facebook](#) | [LinkedIn](#) | [YouTube](#)

From: SampleReceiving@phoenixlabs.com <SampleReceiving@phoenixlabs.com>
Sent: Monday, May 12, 2025 9:16 PM
To: Ethan Stewart <estewart@fando.com>
Subject: Phoenix Labs - GCT25432, DOT SOUTHLINGTON REST AREA - COC Acknowledgement

This is an automated sample acknowledgement.

If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.

Purchase Order#: 20210730.A62

Samples Will Be Disposed After: 30 Days

GCT25432 Criteria:

GROUND WATER(2): CT GWP (GA GW Protection), CT SWP (SW Protection)
 SOIL(17): CT GAM (GA Mobility), CT RC (Res. Criteria)
 WATER(1): CT GWP (GA GW Protection), CT SWP (SW Protection)

Please email client services only if you require criteria different than what is listed. Criteria added post-reporting requires re-evaluation of data and possible re-analysis therefore charges may apply. Project objectives not communicated at time of submittal may not be achieved.

Delivery group GCT25432 (DOT SOUTHWINGTON REST AREA) has been logged in for the following samples:

Phoenix Id	Client Id
CT25432	1960250509-B-9 (1-3)
CT25433	1960250509-B-9 (3-5)
CT25434	1960250509-B-7 (1-3)
CT25435	1960250509-B-7 (3-5)
CT25436	1960250512-B-4 (0-2)
CT25437	1960250512-MW-4
CT25438	1960250512-MW-7
CT25439	1960250509-TB-SOIL LL
CT25440	1960250512-TB-GW
CT25441	1960250509-TB-SOIL HL
CT25442	1960250509-B-10 (1-3)
CT25443	1960250509-B-19 (2-4)
CT25444	1960250509-B-20 (3-5)
CT25445	1960250509-B-21 (1-3)
CT25446	1960250509-B-6 (2-4)
CT25447	1960250509-B-6 (4-6)
CT25448	1960250509-B-5 (1-3)
CT25449	1960250509-B-5 (4-6)
CT25450	1960250509-B-8 (1-3)

CT25451

1960250509-B-8 (3-5)

This SDG has been logged in for Standard 7 business day turn-around time.

The samples were received at 1.3C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.

Thank you for your business,

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.

cc'd:EStewart@fando.com;vrochelt@fando.com



Thursday, May 22, 2025

Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Project ID: DOT SOUTHTON REST AREA
SDG ID: GCT21506
Sample ID#s: CT21506 - CT21529

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

May 22, 2025

SDG I.D.: GCT21506

Volatile 8260 analysis:

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, these compounds are analyzed by GC/ECD to achieve this criteria.

Volatile 8260 analysis:

1,4-Dioxane does not meet the GWP. This compound is analyzed by method 522 or 8270SIM to achieve this criteria.

The regulatory hold time for Filtration is 24 hours. Filtration was performed in the laboratory and may be considered outside of hold-time.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

May 22, 2025

SDG I.D.: GCT21506

Project ID: DOT SOUTHTON REST AREA

Client Id	Lab Id	Matrix	Col Date
1960250506-B1 (1-3)	CT21506	SOIL	05/06/25 9:50
1960250506-B1 (7-9)	CT21507	SOIL	05/06/25 10:07
1960250506-B2 (1-3)	CT21508	SOIL	05/06/25 13:35
1960250506-B2 (5-7)	CT21509	SOIL	05/06/25 13:45
1960250506-B3 (1-3)	CT21510	SOIL	05/06/25 12:15
1960250506-B3 (5-7)	CT21511	SOIL	05/06/25 12:30
1960250506-B16 (2-4)	CT21512	SOIL	05/06/25 14:25
1960250506-B16 (4-6)	CT21513	SOIL	05/06/25 14:35
1960250506-B10 (3-5)	CT21514	SOIL	05/06/25 8:59
1960250506-B10 (7-9)	CT21515	SOIL	05/06/25 9:20
1960250506-B11 (1-3)	CT21516	SOIL	05/06/25 14:05
1960250506-B11 (5-7)	CT21517	SOIL	05/06/25 14:15
1960250506-B12 (2-4)	CT21518	SOIL	05/06/25 10:30
1960250506-B12 (4-6)	CT21519	SOIL	05/06/25 10:35
1960250506-B13 (2-4)	CT21520	SOIL	05/06/25 11:45
1960250506-B13 (4-6)	CT21521	SOIL	05/06/25 12:00
1960250506-B14 (1-3)	CT21522	SOIL	05/06/25 11:10
1960250506-B14 (5-7)	CT21523	SOIL	05/06/25 11:15
1960250506-B15 (2-4)	CT21524	SOIL	05/06/25 10:55
1960250506-B17 (1-3)	CT21525	SOIL	05/06/25 14:45
1960250506-MW-10	CT21526	GROUND WATER	05/06/25 13:20
1960250506-TB	CT21527	SOIL	05/06/25 8:00
1960250506-TB 2 LL	CT21528	SOIL	05/06/25 8:00
1960250506-TB 2 HL	CT21529	SOIL	05/06/25 8:00



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

9:50
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21506

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B1 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	05/08/25	TH	SW6010D
Arsenic	1.57	0.76	mg/Kg	1	05/08/25	TH	SW6010D
Barium	102	0.38	mg/Kg	1	05/08/25	TH	SW6010D
Beryllium	0.99	0.30	mg/Kg	1	05/08/25	TH	SW6010D
Cadmium	< 0.38	0.38	mg/Kg	1	05/08/25	TH	SW6010D
Chromium	32.9	0.38	mg/Kg	1	05/08/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/08/25	JM	SW7471B
Nickel	31.8	0.38	mg/Kg	1	05/08/25	TH	SW6010D
Lead	16.4	0.38	mg/Kg	1	05/08/25	TH	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	05/08/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/08/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	0.004	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.034	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	0.020	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	0.212	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.040	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.45	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.029	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.4	3.4	mg/Kg	1	05/08/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	47.7	0.38	mg/Kg	1	05/08/25	TH	SW6010D
Zinc	74.9	0.8	mg/Kg	1	05/08/25	TH	SW6010D
Percent Solid	89		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	39	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	7.46	1.00	pH Units	1	05/07/25 22:59	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	42000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	42000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	67		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	79		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	05/17/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/17/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	77		%	1	05/17/25	JRB	50 - 150 %
% Terphenyl (surr)	75		%	1	05/17/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	87		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	96		%	10	05/16/25	SC	30 - 150 %
% TCMX	96		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	98		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	73		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	93		%	2	05/16/25	AW	30 - 150 %
% TCMX	63		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	67		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.42	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	21	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	21	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	210	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	2.5	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	25	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.4	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	8.4	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.4	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.4	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	8.4	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	84	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/16/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	05/16/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	05/16/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Acenaphthene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Acetophenone	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Anthracene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Benzoic acid	ND	730	ug/Kg	1	05/16/25	MR	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	05/16/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	05/16/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Chrysene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Di-n-butylphthalate	ND	370	ug/Kg	1	05/16/25	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/16/25	MR	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	05/16/25	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Phenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	74		%	1	05/16/25	MR	30 - 130 %
% 2-Fluorobiphenyl	59		%	1	05/16/25	MR	30 - 130 %
% 2-Fluorophenol	52		%	1	05/16/25	MR	30 - 130 %
% Nitrobenzene-d5	55		%	1	05/16/25	MR	30 - 130 %
% Phenol-d5	51		%	1	05/16/25	MR	30 - 130 %
% Terphenyl-d14	60		%	1	05/16/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

10:07
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21507

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B1 (7-9)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	05/08/25	TH	SW6010D
Arsenic	3.24	0.67	mg/Kg	1	05/08/25	TH	SW6010D
Barium	87.8	0.33	mg/Kg	1	05/08/25	TH	SW6010D
Beryllium	0.71	0.27	mg/Kg	1	05/08/25	TH	SW6010D
Cadmium	< 0.33	0.33	mg/Kg	1	05/08/25	TH	SW6010D
Chromium	12.7	0.33	mg/Kg	1	05/08/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/08/25	JM	SW7471B
Nickel	10.0	0.33	mg/Kg	1	05/08/25	TH	SW6010D
Lead	9.48	0.33	mg/Kg	1	05/08/25	TH	SW6010D
Antimony	< 3.3	3.3	mg/Kg	1	05/08/25	TH	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	05/08/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	0.005	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.170	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.020	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.35	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.051	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.0	3.0	mg/Kg	1	05/08/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	23.4	0.33	mg/Kg	1	05/08/25	TH	SW6010D
Zinc	24.0	0.7	mg/Kg	1	05/08/25	TH	SW6010D
Percent Solid	90		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	74	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	7.36	1.00	pH Units	1	05/07/25 22:59	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	60		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	67		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	84		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	77		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	100		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	111		%	10	05/16/25	SC	30 - 150 %
% TCMX	101		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	103		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	81		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	61		%	2	05/16/25	AW	30 - 150 %
% TCMX	76		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	87		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.51	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	250	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	100	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	5.1	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/16/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	05/16/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/16/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/16/25	MR	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Acenaphthene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Acetophenone	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Anthracene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Benzoic acid	ND	730	ug/Kg	1	05/16/25	MR	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/16/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	05/16/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Chrysene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	05/16/25	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/16/25	MR	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/16/25	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Phenol	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	05/16/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/16/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	69		%	1	05/16/25	MR	30 - 130 %
% 2-Fluorobiphenyl	59		%	1	05/16/25	MR	30 - 130 %
% 2-Fluorophenol	55		%	1	05/16/25	MR	30 - 130 %
% Nitrobenzene-d5	59		%	1	05/16/25	MR	30 - 130 %
% Phenol-d5	56		%	1	05/16/25	MR	30 - 130 %
% Terphenyl-d14	60		%	1	05/16/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25 13:35
05/07/25 14:25

Time

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21508

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B2 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	05/08/25	TH	SW6010D
Arsenic	1.50	0.82	mg/Kg	1	05/08/25	TH	SW6010D
Barium	84.1	0.41	mg/Kg	1	05/08/25	TH	SW6010D
Beryllium	0.55	0.33	mg/Kg	1	05/08/25	TH	SW6010D
Cadmium	< 0.41	0.41	mg/Kg	1	05/08/25	TH	SW6010D
Chromium	14.7	0.41	mg/Kg	1	05/08/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/08/25	JM	SW7471B
Nickel	8.39	0.41	mg/Kg	1	05/08/25	TH	SW6010D
Lead	8.12	0.41	mg/Kg	1	05/08/25	TH	SW6010D
Antimony	< 4.1	4.1	mg/Kg	1	05/08/25	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/08/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	0.005	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.414	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	0.023	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	0.014	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	0.011	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	0.021	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.054	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.59	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.056	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.7	3.7	mg/Kg	1	05/08/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	29.9	0.41	mg/Kg	1	05/08/25	TH	SW6010D
Zinc	29.7	0.8	mg/Kg	1	05/08/25	TH	SW6010D
Percent Solid	84		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	13	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	6.02	1.00	pH Units	1	05/07/25 22:59	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	44000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	44000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	87		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	100		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	74		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	72		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	88		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	97		%	10	05/16/25	SC	30 - 150 %
% TCMX	101		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	103		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.9	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.9	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	78		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	62		%	2	05/16/25	AW	30 - 150 %
% TCMX	73		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	83		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.48	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	24	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	240	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.6	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	9.6	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.6	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.6	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	9.6	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	91		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	96	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	770	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	75		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	61		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	58		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	61		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	59		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	60		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

13:45
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21509

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B2 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	05/08/25	TH	SW6010D
Arsenic	3.49	0.79	mg/Kg	1	05/08/25	TH	SW6010D
Barium	145	0.39	mg/Kg	1	05/08/25	TH	SW6010D
Beryllium	0.86	0.31	mg/Kg	1	05/08/25	TH	SW6010D
Cadmium	< 0.39	0.39	mg/Kg	1	05/08/25	TH	SW6010D
Chromium	16.1	0.39	mg/Kg	1	05/08/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	11.6	0.39	mg/Kg	1	05/08/25	TH	SW6010D
Lead	12.2	0.39	mg/Kg	1	05/08/25	TH	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	05/08/25	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/08/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.187	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.026	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.63	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.05	0.05	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.044	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.5	3.5	mg/Kg	1	05/08/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	43.7	0.39	mg/Kg	1	05/08/25	TH	SW6010D
Zinc	32.1	0.8	mg/Kg	1	05/08/25	TH	SW6010D
Percent Solid	86		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	80	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	8.31	1.00	pH Units	1	05/07/25 23:03	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	43000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	43000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	74		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	84		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	66		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	67		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	94		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	05/16/25	SC	30 - 150 %
% TCMX	88		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	79		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.5	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	72		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	96		%	2	05/16/25	AW	30 - 150 %
% TCMX	61		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	70		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.52	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	26	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	260	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	92		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	100	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	5.2	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	760	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	380	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	380	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	380	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	81		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	62		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	59		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	61		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	60		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	62		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Corrosivity is based solely on the pH analysis performed above.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

12:15
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21510

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B3 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	05/08/25	TH	SW6010D
Arsenic	2.77	0.73	mg/Kg	1	05/08/25	TH	SW6010D
Barium	94.1	0.36	mg/Kg	1	05/08/25	TH	SW6010D
Beryllium	0.61	0.29	mg/Kg	1	05/08/25	TH	SW6010D
Cadmium	0.53	0.36	mg/Kg	1	05/08/25	TH	SW6010D
Chromium	18.6	0.36	mg/Kg	1	05/08/25	TH	SW6010D
Mercury	0.04	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	14.2	0.36	mg/Kg	1	05/08/25	TH	SW6010D
Lead	33.7	0.36	mg/Kg	1	05/08/25	TH	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	05/08/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/08/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.071	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	0.042	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	0.041	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.062	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.53	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	0.018	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.054	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.3	3.3	mg/Kg	1	05/08/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	39.7	0.36	mg/Kg	1	05/08/25	TH	SW6010D
Zinc	70.5	0.7	mg/Kg	1	05/08/25	TH	SW6010D
Percent Solid	83		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	29	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	7.51	1.00	pH Units	1	05/07/25 23:03	KG	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	300	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	3000	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	300	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	300	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	44000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	44000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	85		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	101		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	57		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	60		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	82		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	95		%	10	05/16/25	SC	30 - 150 %
% TCMX	92		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	95		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	05/19/25	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	05/19/25	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	05/19/25	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	05/19/25	AW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	05/19/25	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	05/19/25	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	05/19/25	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	05/19/25	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	05/19/25	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	05/19/25	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	05/19/25	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	05/19/25	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	05/19/25	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	05/19/25	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	05/19/25	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	05/19/25	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/19/25	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	05/19/25	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	05/19/25	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	05/19/25	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/19/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	67		%	2	05/19/25	AW	30 - 150 %
% DCBP (Confirmation)	37		%	2	05/19/25	AW	30 - 150 %
% TCMX	57		%	2	05/19/25	AW	30 - 150 %
% TCMX (Confirmation)	65		%	2	05/19/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.46	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	23	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	230	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	2.8	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.3	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	9.3	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.3	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.3	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	9.3	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	91		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	105		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	87		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	93	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	400	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	800	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	400	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	400	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	400	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	400	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	71		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	59		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	53		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	58		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	55		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	59		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

12:30
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21511

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B3 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	5.36	0.77	mg/Kg	1	05/09/25	TH	SW6010D
Barium	193	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	1.26	0.31	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	0.51	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	30.0	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	22.0	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Lead	13.5	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	0.014	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.572	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	0.036	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	0.056	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	0.020	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	0.061	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.104	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.41	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.084	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.5	3.5	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	42.7	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	56.0	0.8	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	83		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	16	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	7.43	1.00	pH Units	1	05/07/25 23:03	KG	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	300	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	3000	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	300	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	300	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	45000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	45000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	83		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	97		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	59		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	61		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	88		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	106		%	10	05/16/25	SC	30 - 150 %
% TCMX	100		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	102		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	05/20/25	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	05/20/25	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	05/20/25	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	05/20/25	AW	SW8081B
Alachlor	ND	7.9	ug/Kg	2	05/20/25	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	05/20/25	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	05/20/25	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	05/20/25	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	05/20/25	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	05/20/25	AW	SW8081B
Endrin	ND	7.9	ug/Kg	2	05/20/25	AW	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	05/20/25	AW	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	05/20/25	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/20/25	AW	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	05/20/25	AW	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	05/20/25	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	05/20/25	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/20/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	77		%	2	05/20/25	AW	30 - 150 %
% DCBP (Confirmation)	46		%	2	05/20/25	AW	30 - 150 %
% TCMX	67		%	2	05/20/25	AW	30 - 150 %
% TCMX (Confirmation)	77		%	2	05/20/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.49	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	24	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	240	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.8	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	9.8	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.8	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.8	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	9.8	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	98	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	400	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	800	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	400	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	400	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	400	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	400	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	280	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	73		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	60		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	56		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	59		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	57		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	60		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

14:25
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21512

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B16 (2-4)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	2.63	0.84	mg/Kg	1	05/09/25	TH	SW6010D
Barium	80.5	0.42	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	0.60	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	< 0.42	0.42	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	17.8	0.42	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.04	0.04	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	11.8	0.42	mg/Kg	1	05/09/25	TH	SW6010D
Lead	21.4	0.42	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	0.005	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.208	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	0.016	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	0.011	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.034	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.49	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	0.027	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.067	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.8	3.8	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	32.8	0.42	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	48.1	0.8	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	71		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	10	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	7.06	1.00	pH Units	1	05/07/25 23:03	KG	SW846 9045D
Reactivity Cyanide	< 7	7	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	170	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	170	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	350	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	3500	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	170	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	170	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	350	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	350	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	52000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	52000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	89		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	103		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	70	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	74		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	74		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	460	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	460	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	460	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	460	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	460	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	460	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	460	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	460	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	460	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	84		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	102		%	10	05/16/25	SC	30 - 150 %
% TCMX	95		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	98		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.8	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.8	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.8	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.8	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	9.2	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.8	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.8	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	46	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.8	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	4.6	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	9.2	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	9.2	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	9.2	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	9.2	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	9.2	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	9.2	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	9.2	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	9.2	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	46	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	180	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	70		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	52		%	2	05/16/25	AW	30 - 150 %
% TCMX	69		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	80		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1,1-Trichloroethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.2	ug/Kg	1	05/14/25	JLI	SW8260
1,1,2-Trichloroethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloroethene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,1-Dichloropropene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2,3-Trichloropropane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dibromoethane	ND	0.70	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichlorobenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloroethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,2-Dichloropropane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichlorobenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,3-Dichloropropane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
1,4-Dichlorobenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
2,2-Dichloropropane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
2-Chlorotoluene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
2-Hexanone	ND	35	ug/Kg	1	05/14/25	JLI	SW8260
2-Isopropyltoluene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
4-Chlorotoluene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
4-Methyl-2-pentanone	ND	35	ug/Kg	1	05/14/25	JLI	SW8260
Acetone	ND	350	ug/Kg	1	05/14/25	JLI	SW8260
Acrylonitrile	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Benzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromobenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromochloromethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromodichloromethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromoform	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Bromomethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Carbon Disulfide	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Carbon tetrachloride	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Chlorobenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Chloroethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Chloroform	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Chloromethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Dibromochloromethane	ND	4.2	ug/Kg	1	05/14/25	JLI	SW8260
Dibromomethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Dichlorodifluoromethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Ethylbenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Hexachlorobutadiene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Isopropylbenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Methyl Ethyl Ketone	ND	42	ug/Kg	1	05/14/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	05/14/25	JLI	SW8260
Methylene chloride	ND	14	ug/Kg	1	05/14/25	JLI	SW8260
Naphthalene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
n-Butylbenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
n-Propylbenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
o-Xylene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
p-Isopropyltoluene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
sec-Butylbenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Styrene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
tert-Butylbenzene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Tetrachloroethene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	05/14/25	JLI	SW8260
Toluene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Total Xylenes	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	05/14/25	JLI	SW8260
Trichloroethene	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorofluoromethane	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Trichlorotrifluoroethane	ND	14	ug/Kg	1	05/14/25	JLI	SW8260
Vinyl chloride	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	05/14/25	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	05/14/25	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	05/14/25	JLI	70 - 130 %
% Toluene-d8	90		%	1	05/14/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	100	ug/Kg	1	05/14/25	JLI	SW8260
Diethyl ether	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
Ethyl tert-butyl ether	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
tert-amyl methyl ether	ND	7.0	ug/Kg	1	05/14/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	460	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	460	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	920	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	460	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	460	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	460	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	460	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	320	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	85		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	66		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	62		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	65		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	63		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	66		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

14:35
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21513

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B16 (4-6)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	2.42	0.79	mg/Kg	1	05/09/25	TH	SW6010D
Barium	84.8	0.40	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	0.76	0.32	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	< 0.40	0.40	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	14.4	0.40	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	8.95	0.40	mg/Kg	1	05/09/25	TH	SW6010D
Lead	6.42	0.40	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	0.010	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.307	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	0.013	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	0.011	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	0.011	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	0.017	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.043	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.33	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	0.015	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.064	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.6	3.6	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	26.4	0.40	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	23.8	0.8	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	89		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	59	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	6.69	1.00	pH Units	1	05/07/25 23:03	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	65		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	75		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	78		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	78		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	66		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	88		%	10	05/16/25	SC	30 - 150 %
% TCMX	83		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	85		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	59		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	47		%	2	05/16/25	AW	30 - 150 %
% TCMX	61		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	72		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.44	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	22	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	22	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	220	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	2.7	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.9	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	8.9	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.9	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.9	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	8.9	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	89	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	730	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	84		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	64		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	65		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	64		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	66		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

8:59
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21514

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B10 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	1.92	0.69	mg/Kg	1	05/09/25	TH	SW6010D
Barium	85.8	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	0.44	0.27	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	< 0.34	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	9.86	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	6.25	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Lead	3.66	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	0.017	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.623	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	0.026	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	0.035	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	0.014	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	0.022	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.045	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.60	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.099	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.1	3.1	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	21.3	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	14.2	0.7	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	90		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	20	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	7.99	1.00	pH Units	1	05/07/25 23:04	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	42000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	42000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	79		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	89		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	74		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	75		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	95		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	113		%	10	05/16/25	SC	30 - 150 %
% TCMX	106		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	108		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	76		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	60		%	2	05/16/25	AW	30 - 150 %
% TCMX	76		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	87		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.46	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	23	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	230	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	2.7	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.1	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	9.1	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.1	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.1	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	9.1	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	91	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	4.6	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	740	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	80		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	60		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	60		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	62		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	61		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	60		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

9:20
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21515

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B10 (7-9)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	1.72	0.69	mg/Kg	1	05/09/25	TH	SW6010D
Barium	54.1	0.35	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	0.43	0.28	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	< 0.35	0.35	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	6.57	0.35	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	4.93	0.35	mg/Kg	1	05/09/25	TH	SW6010D
Lead	4.65	0.35	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.079	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.016	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.42	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.061	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.1	3.1	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	18.5	0.35	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	13.0	0.7	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	90		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	16	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	8.30	1.00	pH Units	1	05/07/25 23:04	KG	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	75		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	87		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	66		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	69		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	107		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	96		%	10	05/16/25	SC	30 - 150 %
% TCMX	105		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	103		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/20/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/20/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/20/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/20/25	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/20/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/20/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/20/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/20/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/20/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/20/25	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/20/25	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/20/25	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/20/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/20/25	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/20/25	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/20/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/20/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/20/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	77		%	2	05/20/25	AW	30 - 150 %
% DCBP (Confirmation)	48		%	2	05/20/25	AW	30 - 150 %
% TCMX	66		%	2	05/20/25	AW	30 - 150 %
% TCMX (Confirmation)	75		%	2	05/20/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.49	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	250	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.9	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	9.9	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.9	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.9	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	9.9	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	96		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	106		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	86		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	99	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	4.9	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	730	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	85		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	63		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	66		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	63		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	67		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

14:05
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21516

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B11 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.44	0.44	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	6.23	0.88	mg/Kg	1	05/09/25	TH	SW6010D
Barium	112	0.44	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	0.73	0.35	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	0.45	0.44	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	17.8	0.44	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	0.04	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	10.5	0.44	mg/Kg	1	05/09/25	TH	SW6010D
Lead	10.2	0.44	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 4.4	4.4	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.8	1.8	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.260	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	0.031	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	0.015	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	0.012	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	0.015	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.097	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.61	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.093	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 4.0	4.0	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	53.6	0.44	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	32.9	0.9	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	80		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	95	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	5.86	1.00	pH Units	1	05/07/25 23:04	KG	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	310	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	3100	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	310	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	310	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	46000	ug/Kg	10	05/13/25	JRB	SW8151A
MCPP	ND	46000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	91		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	106		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	60		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	61		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	410	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	52		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	65		%	10	05/16/25	SC	30 - 150 %
% TCMX	66		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	66		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	8.2	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	41	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	8.2	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	8.2	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	8.2	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	8.2	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	8.2	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	8.2	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	8.2	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	8.2	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	55		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	73		%	2	05/16/25	AW	30 - 150 %
% TCMX	47		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	60		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.55	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	28	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	280	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	11	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	100	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	5.5	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	410	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	820	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	410	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	410	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	410	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	410	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	290	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	85		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	66		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	65		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	68		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	67		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	65		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

Corrosivity is based solely on the pH analysis performed above.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

14:15
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21517

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B11 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	2.39	0.69	mg/Kg	1	05/09/25	TH	SW6010D
Barium	119	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	0.77	0.27	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	< 0.34	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	13.5	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	9.78	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Lead	5.15	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	0.019	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.537	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	0.034	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	0.122	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	0.019	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	0.076	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.114	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.33	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.300	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.1	3.1	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	26.1	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	27.1	0.7	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	90		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	40	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	6.48	1.00	pH Units	1	05/07/25 23:04	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	83		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	96		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	50		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	52		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	80		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	98		%	10	05/16/25	SC	30 - 150 %
% TCMX	87		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	88		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	68		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	51		%	2	05/16/25	AW	30 - 150 %
% TCMX	67		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	80		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.42	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	21	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	21	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	210	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	2.5	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	25	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.4	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	8.4	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.4	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.4	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	8.4	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	87		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	84	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	4.2	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	730	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	81		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	65		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	61		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	65		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	63		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	66		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

10:30
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21518

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B12 (2-4)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	1.55	0.68	mg/Kg	1	05/09/25	TH	SW6010D
Barium	65.7	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	0.57	0.27	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	0.35	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	19.7	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	13.7	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Lead	6.47	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	0.006	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.230	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	0.021	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	0.026	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	0.012	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	0.015	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.055	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.44	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.063	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.1	3.1	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	38.0	0.34	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	34.5	0.7	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	91		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	41	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	6.99	1.00	pH Units	1	05/07/25 23:04	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	68		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	64		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	66		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	82		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	97		%	10	05/16/25	SC	30 - 150 %
% TCMX	90		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	94		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	05/20/25	AW	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	05/20/25	AW	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	05/20/25	AW	SW8081B
a-BHC	ND	1.4	ug/Kg	2	05/20/25	AW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	05/20/25	AW	SW8081B
Aldrin	ND	1.4	ug/Kg	2	05/20/25	AW	SW8081B
b-BHC	ND	1.4	ug/Kg	2	05/20/25	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/20/25	AW	SW8081B
d-BHC	ND	1.4	ug/Kg	2	05/20/25	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	05/20/25	AW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	05/20/25	AW	SW8081B
Endrin	ND	7.2	ug/Kg	2	05/20/25	AW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	05/20/25	AW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	05/20/25	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/20/25	AW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	05/20/25	AW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	05/20/25	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/20/25	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/20/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	68		%	2	05/20/25	AW	30 - 150 %
% DCBP (Confirmation)	42		%	2	05/20/25	AW	30 - 150 %
% TCMX	57		%	2	05/20/25	AW	30 - 150 %
% TCMX (Confirmation)	66		%	2	05/20/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.48	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	24	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	240	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.6	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	9.6	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.6	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.6	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	9.6	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	91		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	108		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	96	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	720	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	88		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	70		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	66		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	70		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	68		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	70		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

10:35
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21519

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B12 (4-6)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	2.76	0.73	mg/Kg	1	05/09/25	TH	SW6010D
Barium	70.0	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	0.53	0.29	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	< 0.37	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	8.78	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	7.02	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Lead	5.53	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.127	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	0.013	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.022	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.28	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.065	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.3	3.3	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	26.2	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	17.6	0.7	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	90		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	12	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	7.95	1.00	pH Units	1	05/07/25 23:04	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	AC1/S/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/09/25	P/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	72		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	82		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	53		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	60		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	85		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	100		%	10	05/16/25	SC	30 - 150 %
% TCMX	95		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	97		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	74		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	54		%	2	05/16/25	AW	30 - 150 %
% TCMX	73		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	84		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	05/09/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloroethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloroethene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloropropene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
1,2,3-Trichloropropane	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dibromoethane	ND	0.43	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dichlorobenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
1,2-Dichloroethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dichloropropane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
1,3-Dichlorobenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
1,3-Dichloropropane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
1,4-Dichlorobenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
2,2-Dichloropropane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
2-Chlorotoluene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
2-Hexanone	ND	22	ug/Kg	1	05/09/25	JLI	SW8260
2-Isopropyltoluene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
4-Chlorotoluene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
4-Methyl-2-pentanone	ND	22	ug/Kg	1	05/09/25	JLI	SW8260
Acetone	ND	220	ug/Kg	1	05/09/25	JLI	SW8260
Acrylonitrile	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Benzene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Bromobenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
Bromochloromethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Bromodichloromethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Bromoform	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Bromomethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Carbon Disulfide	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Carbon tetrachloride	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Chlorobenzene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Chloroethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Chloroform	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Chloromethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Dibromochloromethane	ND	2.6	ug/Kg	1	05/09/25	JLI	SW8260
Dibromomethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Ethylbenzene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Hexachlorobutadiene	ND	200	ug/Kg	50	05/09/25	JLI	SW8260
Isopropylbenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Methyl Ethyl Ketone	ND	26	ug/Kg	1	05/09/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.7	ug/Kg	1	05/09/25	JLI	SW8260
Methylene chloride	ND	8.7	ug/Kg	1	05/09/25	JLI	SW8260
Naphthalene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
n-Butylbenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
n-Propylbenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
o-Xylene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
p-Isopropyltoluene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
sec-Butylbenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
Styrene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
tert-Butylbenzene	ND	260	ug/Kg	50	05/09/25	JLI	SW8260
Tetrachloroethene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.7	ug/Kg	1	05/09/25	JLI	SW8260
Toluene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Total Xylenes	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	520	ug/Kg	50	05/09/25	JLI	SW8260
Trichloroethene	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Trichlorofluoromethane	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Trichlorotrifluoroethane	ND	8.7	ug/Kg	1	05/09/25	JLI	SW8260
Vinyl chloride	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/09/25	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	05/09/25	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	05/09/25	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/09/25	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	05/09/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	99		%	50	05/09/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	95		%	50	05/09/25	JLI	70 - 130 %
% Toluene-d8 (50x)	98		%	50	05/09/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	87	ug/Kg	1	05/09/25	JLI	SW8260
Diethyl ether	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
tert-amyl methyl ether	ND	4.3	ug/Kg	1	05/09/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2-Chloronaphthalene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	730	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachloroethane	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	250	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	81		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	65		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	63		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	67		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	64		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	66		%	1	05/17/25	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Volatile Comment:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

11:45
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21520

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B13 (2-4)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	1.29	0.67	mg/Kg	1	05/09/25	TH	SW6010D
Barium	45.6	0.33	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	0.36	0.27	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	< 0.33	0.33	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	5.44	0.33	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	4.72	0.33	mg/Kg	1	05/09/25	TH	SW6010D
Lead	2.47	0.33	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 3.3	3.3	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.65	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.055	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.0	3.0	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	21.7	0.33	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	10.3	0.7	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	90		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	313	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	4.84	1.00	pH Units	1	05/07/25 23:04	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	H/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/12/25	P/MQ/D	SW3546
Soil Extraction for PCB	Completed				05/15/25	H/Q	SW3546
Soil Extraction for Pesticide	Completed				05/15/25	H/Q	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	64		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	75		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	58		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	67		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	97		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	103		%	10	05/16/25	SC	30 - 150 %
% TCMX	100		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	99		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	76		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	59		%	2	05/16/25	AW	30 - 150 %
% TCMX	76		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	85		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.43	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	21	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	21	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	210	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	2.6	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	26	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.6	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	8.6	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.6	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.6	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	8.6	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	92		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	86	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	4.3	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	740	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	88		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	68		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	65		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	67		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	66		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	69		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

12:00
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21521

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B13 (4-6)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	1.20	0.72	mg/Kg	1	05/09/25	TH	SW6010D
Barium	51.9	0.36	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	0.33	0.29	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	< 0.36	0.36	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	11.6	0.36	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	5.55	0.36	mg/Kg	1	05/09/25	TH	SW6010D
Lead	2.43	0.36	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.61	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	0.014	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.071	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.2	3.2	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	34.7	0.36	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	14.1	0.7	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	89		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	338	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	6.08	1.00	pH Units	1	05/07/25 23:04	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	H/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/12/25	P/MQ/D	SW3546
Soil Extraction for PCB	Completed				05/16/25	DS/SD	SW3546
Soil Extraction for Pesticide	Completed				05/16/25	DS/SD	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	67		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	80		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/18/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/18/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	67		%	1	05/18/25	JRB	50 - 150 %
% Terphenyl (surr)	74		%	1	05/18/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	84		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	81		%	10	05/16/25	SC	30 - 150 %
% TCMX	74		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	74		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	65		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	71		%	2	05/16/25	AW	30 - 150 %
% TCMX	55		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	57		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.44	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	22	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	22	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	220	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	2.6	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	26	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.8	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	8.8	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.8	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.8	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	8.8	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	105		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	88		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	88	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	4.4	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	750	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	72		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	56		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	53		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	54		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	54		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	54		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

Corrosivity is based solely on the pH analysis performed above.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

11:10
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21522

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B14 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	2.01	0.74	mg/Kg	1	05/09/25	TH	SW6010D
Barium	45.8	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	0.44	0.29	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	< 0.37	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	14.3	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	7.19	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Lead	5.16	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.37	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/08/25	JM	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.051	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.3	3.3	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	34.0	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	22.9	0.7	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	86		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	14	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	6.15	1.00	pH Units	1	05/07/25 23:04	KG	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	H/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/12/25	P/MQ/D	SW3546
Soil Extraction for PCB	Completed				05/16/25	DS/SD	SW3546
Soil Extraction for Pesticide	Completed				05/16/25	DS/SD	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	43000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	43000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	90		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	103		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	05/19/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/19/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	70		%	1	05/19/25	JRB	50 - 150 %
% Terphenyl (surr)	73		%	1	05/19/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	90		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	83		%	10	05/16/25	SC	30 - 150 %
% TCMX	77		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	76		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.6	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	69		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	82		%	2	05/16/25	AW	30 - 150 %
% TCMX	55		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	58		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/09/25	JLI	SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dibromoethane	ND	0.51	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
2-Chlorotoluene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/09/25	JLI	SW8260
2-Isopropyltoluene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
4-Chlorotoluene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/09/25	JLI	SW8260
Acetone	ND	250	ug/Kg	1	05/09/25	JLI	SW8260
Acrylonitrile	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Benzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Bromobenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Bromochloromethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Bromodichloromethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Bromoform	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Bromomethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Carbon Disulfide	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Carbon tetrachloride	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Chlorobenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Chloroethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Chloroform	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Chloromethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/09/25	JLI	SW8260
Dibromomethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Ethylbenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Hexachlorobutadiene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Isopropylbenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/09/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/09/25	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	05/09/25	JLI	SW8260
Naphthalene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
n-Butylbenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
n-Propylbenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
o-Xylene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
p-Isopropyltoluene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
sec-Butylbenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Styrene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
tert-Butylbenzene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Tetrachloroethene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/09/25	JLI	SW8260
Toluene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Total Xylenes	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/09/25	JLI	SW8260
Trichloroethene	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/09/25	JLI	SW8260
Vinyl chloride	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/09/25	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/09/25	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/09/25	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/09/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	100	ug/Kg	1	05/09/25	JLI	SW8260
Diethyl ether	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
Ethyl tert-butyl ether	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
tert-amyl methyl ether	ND	5.1	ug/Kg	1	05/09/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	770	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	75		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	59		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	59		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	60		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	60		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	60		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

11:15
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21523

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B14 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	1.20	0.77	mg/Kg	1	05/09/25	TH	SW6010D
Barium	29.0	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	< 0.31	0.31	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	< 0.39	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	13.4	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	6.20	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Lead	3.99	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/09/25	ZT	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.36	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	0.027	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/09/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.052	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.5	3.5	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	31.0	0.39	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	16.1	0.8	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	83		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	22	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	6.25	1.00	pH Units	1	05/07/25 23:04	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	H/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/12/25	P/MQ/D	SW3546
Soil Extraction for PCB	Completed				05/16/25	DS/SD	SW3546
Soil Extraction for Pesticide	Completed				05/16/25	DS/SD	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	300	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	3000	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	300	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	300	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	45000	ug/Kg	10	05/13/25	JRB	SW8151A
MCPP	ND	45000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	88		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	99		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	130	mg/Kg	1	05/19/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/19/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	63		%	1	05/19/25	JRB	50 - 150 %
% Terphenyl (surr)	67		%	1	05/19/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	630	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	630	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	630	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	630	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	630	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	630	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	630	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	630	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	630	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	86		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	05/16/25	SC	30 - 150 %
% TCMX	75		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	73		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	2.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	2.5	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	2.5	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	2.0	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	13	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	2.0	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	2.0	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	63	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	2.0	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	6.3	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	13	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	13	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	13	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	13	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	13	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	13	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	2.0	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	13	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	13	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	63	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	250	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	69		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	75		%	2	05/16/25	AW	30 - 150 %
% TCMX	55		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	55		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.57	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	28	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	280	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	11	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	105		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	87		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	100	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	5.7	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	780	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	390	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	270	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	88		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	68		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	67		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	68		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	57		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

Corrosivity is based solely on the pH analysis performed above.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

10:55
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21524

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B15 (2-4)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Arsenic	1.02	0.74	mg/Kg	1	05/09/25	TH	SW6010D
Barium	74.7	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Beryllium	0.40	0.30	mg/Kg	1	05/09/25	TH	SW6010D
Cadmium	< 0.37	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Chromium	11.0	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	7.45	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Lead	3.20	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	05/09/25	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	0.075	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/09/25	ZT	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.022	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.80	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/09/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.077	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.3	3.3	mg/Kg	1	05/09/25	TH	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	27.7	0.37	mg/Kg	1	05/09/25	TH	SW6010D
Zinc	16.8	0.7	mg/Kg	1	05/09/25	TH	SW6010D
Percent Solid	90		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	41	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	7.69	1.00	pH Units	1	05/07/25 23:04	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	H/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/12/25	P/MQ/D	SW3546
Soil Extraction for PCB	Completed				05/16/25	DS/SD	SW3546
Soil Extraction for Pesticide	Completed				05/16/25	DS/SD	SW3546
Soil Extraction for SVOA	Completed				05/16/25	AC1/S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	ND/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2700	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	270	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	70		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	88		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/19/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/19/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	72		%	1	05/19/25	JRB	50 - 150 %
% Terphenyl (surr)	72		%	1	05/19/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	75		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	74		%	10	05/16/25	SC	30 - 150 %
% TCMX	64		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	63		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	65		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	72		%	2	05/16/25	AW	30 - 150 %
% TCMX	56		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	57		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.60	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	30	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	300	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	3.6	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	36	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	12	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	89		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	100	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	6.0	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/17/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/17/25	MR	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Acetophenone	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Benzoic acid	ND	730	ug/Kg	1	05/17/25	MR	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Chrysene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-butylphthalate	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/17/25	MR	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	05/17/25	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Phenol	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	05/17/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/17/25	MR	SW8270E

QA/QC Surrogates

% 2,4,6-Tribromophenol	73		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorobiphenyl	63		%	1	05/17/25	MR	30 - 130 %
% 2-Fluorophenol	58		%	1	05/17/25	MR	30 - 130 %
% Nitrobenzene-d5	57		%	1	05/17/25	MR	30 - 130 %
% Phenol-d5	59		%	1	05/17/25	MR	30 - 130 %
% Terphenyl-d14	50		%	1	05/17/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Corrosivity is based solely on the pH analysis performed above.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25 14:45
05/07/25 14:25

Time

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21525

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-B17 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	05/08/25	CPP	SW6010D
Arsenic	3.02	0.74	mg/Kg	1	05/08/25	CPP	SW6010D
Barium	47.1	0.37	mg/Kg	1	05/08/25	CPP	SW6010D
Beryllium	0.57	0.30	mg/Kg	1	05/08/25	CPP	SW6010D
Cadmium	< 0.37	0.37	mg/Kg	1	05/08/25	CPP	SW6010D
Chromium	19.7	0.37	mg/Kg	1	05/08/25	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/25	ZT	SW7471B
Nickel	9.68	0.37	mg/Kg	1	05/08/25	CPP	SW6010D
Lead	8.70	0.37	mg/Kg	1	05/08/25	CPP	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	05/08/25	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/08/25	CPP	SW6010D
SPLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	05/08/25	CPP	SW6010D
SPLP Barium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Mercury	< 0.0002	0.0002	mg/L	1	05/09/25	ZT	SW7470A
SPLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW6010D
SPLP Selenium	< 0.020	0.020	mg/L	1	05/08/25	CPP	SW6010D
SPLP Zinc	0.022	0.010	mg/L	1	05/08/25	CPP	SW6010D
TCLP Silver	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Arsenic	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Barium	0.47	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Cadmium	< 0.005	0.005	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Chromium	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Copper	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Mercury	< 0.0002	0.0002	mg/L	1	05/09/25	ZT	SW846 1311/7470
TCLP Nickel	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Lead	< 0.010	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010
TCLP Selenium	< 0.01	0.01	mg/L	1	05/08/25	CPP	SW846 1311/6010D
TCLP Zinc	0.063	0.010	mg/L	1	05/08/25	CPP	SW846 1311/6010D
Thallium	< 3.3	3.3	mg/Kg	1	05/08/25	CPP	SW6010D
SPLP Metals Digestion	Completed				05/08/25	AK/GW	SW3010A
TCLP Metals Digestion	Completed				05/08/25	AK/GW	SW3005A
Vanadium	71.6	0.37	mg/Kg	1	05/08/25	CPP	SW6010D
Zinc	26.5	0.7	mg/Kg	1	05/08/25	CPP	SW6010D
Percent Solid	89		%		05/07/25	CV	SW846-%Solid
Conductivity - Soil Matrix	29	5	umhos/cm	1	05/07/25	AF	SW9050A
Corrosivity	Negative		Pos/Neg	1	05/07/25	KG	SW846-Corr
Flash Point	>200	200	Degree F	1	05/09/25	G	SW1010B
Ignitability	Passed	140	degree F	1	05/09/25	G	SW846-Ignit
pH at 19C - Soil	5.82	1.00	pH Units	1	05/07/25 23:04	KG	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	05/14/25	GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	05/14/25	GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	05/14/25	GD	SW846-React
Field Extraction	Completed				05/06/25		SW5035A
Mercury Digestion	Completed				05/08/25	AC1/AC1	SW7471B
Extraction of ETPH	Completed				05/16/25	H/U/Z	SW3546
Soil Extraction for Herbicide	Completed				05/12/25	P/MQ/D	SW3546
Soil Extraction for PCB	Completed				05/16/25	DS/SD	SW3546
Soil Extraction for Pesticide	Completed				05/16/25	DS/SD	SW3546
Soil Extraction for SVOA	Completed				05/16/25	S/U/Z	SW3546
SPLP Digestion Mercury	Completed				05/08/25	AK/GW	SW1312/SW7470A
SPLP Extraction for Metals	Completed				05/07/25	AK	SW1312
TCLP Digestion Mercury	Completed				05/08/25	AK/GW	SW7470A
TCLP Extraction for Metals	Completed				05/07/25	AK	SW1311
Total Metals Digest	Completed				05/07/25	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
2,4-DB	ND	2800	ug/Kg	10	05/13/25	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	05/13/25	JRB	SW8151A
Dichloroprop	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
Dinoseb	ND	280	ug/Kg	10	05/13/25	JRB	SW8151A
MCPA	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A
MCP	ND	41000	ug/Kg	10	05/13/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	85		%	10	05/13/25	JRB	30 - 150 %
% DCAA (Confirmation)	99		%	10	05/13/25	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/19/25	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/19/25	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	71		%	1	05/19/25	JRB	50 - 150 %
% Terphenyl (surr)	72		%	1	05/19/25	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	05/16/25	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	72		%	10	05/16/25	SC	30 - 150 %
% DCBP (Confirmation)	68		%	10	05/16/25	SC	30 - 150 %
% TCMX	62		%	10	05/16/25	SC	30 - 150 %
% TCMX (Confirmation)	61		%	10	05/16/25	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	3.0	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDE	ND	3.0	ug/Kg	2	05/16/25	AW	SW8081B
4,4' -DDT	ND	3.0	ug/Kg	2	05/16/25	AW	SW8081B
a-BHC	ND	2.0	ug/Kg	2	05/16/25	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Aldrin	ND	2.0	ug/Kg	2	05/16/25	AW	SW8081B
b-BHC	ND	2.0	ug/Kg	2	05/16/25	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
d-BHC	ND	2.0	ug/Kg	2	05/16/25	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/16/25	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/25	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	62		%	2	05/16/25	AW	30 - 150 %
% DCBP (Confirmation)	64		%	2	05/16/25	AW	30 - 150 %
% TCMX	53		%	2	05/16/25	AW	30 - 150 %
% TCMX (Confirmation)	52		%	2	05/16/25	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.48	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	24	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
4-Chlorotoluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	240	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.7	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	9.7	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.7	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.7	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	9.7	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	05/08/25	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	106		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	85		%	1	05/08/25	JLI	70 - 130 %
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	97	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	4.8	ug/Kg	1	05/08/25	JLI	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	05/19/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
2,4-Dinitrophenol	ND	300	ug/Kg	1	05/19/25	MR	SW8270E
2,4-Dinitrotoluene	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
2,6-Dinitrotoluene	ND	200	ug/Kg	1	05/19/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
2-Chlorophenol	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
2-Methylnaphthalene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
2-Nitroaniline	ND	300	ug/Kg	1	05/19/25	MR	SW8270E
2-Nitrophenol	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	05/19/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
3-Nitroaniline	ND	300	ug/Kg	1	05/19/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	05/19/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	05/19/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
4-Chloroaniline	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
4-Nitroaniline	ND	300	ug/Kg	1	05/19/25	MR	SW8270E
4-Nitrophenol	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Acenaphthene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Acenaphthylene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Acetophenone	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Aniline	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
Anthracene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Benz(a)anthracene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
Benzo(a)pyrene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Benzoic acid	ND	740	ug/Kg	1	05/19/25	MR	SW8270E
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	05/19/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	05/19/25	MR	SW8270E
Carbazole	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
Chrysene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Dibenzofuran	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
Diethyl phthalate	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Dimethylphthalate	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Di-n-butylphthalate	ND	370	ug/Kg	1	05/19/25	MR	SW8270E
Di-n-octylphthalate	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Fluoranthene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Fluorene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Hexachlorobenzene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Hexachlorobutadiene	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Hexachloroethane	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Isophorone	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Naphthalene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrobenzene	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
Pentachloronitrobenzene	ND	140	ug/Kg	1	05/19/25	MR	SW8270E
Pentachlorophenol	ND	370	ug/Kg	1	05/19/25	MR	SW8270E
Phenanthrene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Phenol	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Pyrene	ND	260	ug/Kg	1	05/19/25	MR	SW8270E
Pyridine	ND	200	ug/Kg	1	05/19/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	84		%	1	05/19/25	MR	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	05/19/25	MR	30 - 130 %
% 2-Fluorophenol	66		%	1	05/19/25	MR	30 - 130 %
% Nitrobenzene-d5	69		%	1	05/19/25	MR	30 - 130 %
% Phenol-d5	67		%	1	05/19/25	MR	30 - 130 %
% Terphenyl-d14	61		%	1	05/19/25	MR	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

Corrosivity is based solely on the pH analysis performed above.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

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Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: GROUND WATER
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

13:20
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21526

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-MW-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/12/25	CPP	SW6010D
Arsenic	0.028	0.004	mg/L	1	05/12/25	CPP	SW6010D
Barium	1.91	0.002	mg/L	1	05/12/25	CPP	SW6010D
Cadmium	0.006	0.001	mg/L	1	05/12/25	CPP	SW6010D
Chromium	0.426	0.001	mg/L	1	05/12/25	CPP	SW6010D
Copper	0.184	0.005	mg/L	1	05/12/25	CPP	SW6010D
Silver (Dissolved)	< 0.001	0.001	mg/L	1	05/08/25	TH	SW6010D
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	05/08/25	TH	SW6010D
Barium (Dissolved)	0.069	0.002	mg/L	1	05/08/25	TH	SW6010D
Cadmium (Dissolved)	< 0.001	0.001	mg/L	1	05/08/25	TH	SW6010D
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	05/08/25	TH	SW6010D
Copper (Dissolved)	< 0.005	0.005	mg/L	1	05/08/25	TH	SW6010D
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	05/13/25	ZT	SW7470A
Nickel (Dissolved)	0.004	0.001	mg/L	1	05/08/25	TH	SW6010D
Lead (Dissolved)	< 0.002	0.002	mg/L	1	05/08/25	TH	SW6010D
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	05/08/25	TH	SW6010D
Zinc (Dissolved)	0.003	0.002	mg/L	1	05/08/25	TH	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	05/15/25	ZT	SW7470A
Nickel	0.106	0.001	mg/L	1	05/12/25	CPP	SW6010D
Lead	0.030	0.001	mg/L	1	05/12/25	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	05/12/25	CPP	SW6010D
Zinc	0.191	0.004	mg/L	1	05/12/25	CPP	SW6010D
Extraction of ETPH	Completed				05/10/25	A/MQ	SW3510C/SW3520C
Lab Filtration	Completed				05/07/25	AG	0.45um Filter
Mercury Dissolved Digestion	Completed				05/12/25	3W/ZT/AK	SW7470A
Mercury Digestion	Completed				05/12/25	AK/GW	SW7470A
Extraction for Herbicide	Completed				05/12/25	CV/MQ/D	SW8151A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Extraction	Completed				05/12/25	T/T	SW3510C
Extraction for Pest (LDL)	Completed				05/12/25	T	SW3510C
Semi-Volatile Extraction	Completed				05/08/25	L/K/MQ	SW3520C
Dissolved Metals Preparation	Completed				05/07/25	AG	SW3005A
Total Metals Digestion	Completed				05/09/25	AG	SW3010A

Chlorinated Herbicides

2,4,5-T	ND	2.5	ug/L	10	05/14/25	JRB	SW8151A
2,4,5-TP (Silvex)	ND	2.5	ug/L	10	05/14/25	JRB	SW8151A
2,4-D	ND	5.0	ug/L	10	05/14/25	JRB	SW8151A
2,4-DB	ND	50	ug/L	10	05/14/25	JRB	SW8151A
Dalapon	ND	2.5	ug/L	10	05/14/25	JRB	SW8151A
Dicamba	ND	2.5	ug/L	10	05/14/25	JRB	SW8151A
Dichloroprop	ND	5.0	ug/L	10	05/14/25	JRB	SW8151A
Dinoseb	ND	5.0	ug/L	10	05/14/25	JRB	SW8151A
MCPA	ND	750	ug/L	10	05/14/25	JRB	SW8151A
MCPP	ND	750	ug/L	10	05/14/25	JRB	SW8151A

QA/QC Surrogates

% DCAA	141		%	10	05/14/25	JRB	30 - 150 %
% DCAA (Confirmation)	163		%	10	05/14/25	JRB	30 - 150 %

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TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.070	mg/L	1	05/13/25	JRB	CTETPH
Identification	ND		mg/L	1	05/13/25	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	74		%	1	05/13/25	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	0.5	ug/L	1	05/13/25	SC	SW8082A
PCB-1221	ND	0.5	ug/L	1	05/13/25	SC	SW8082A
PCB-1232	ND	0.5	ug/L	1	05/13/25	SC	SW8082A
PCB-1242	ND	0.5	ug/L	1	05/13/25	SC	SW8082A
PCB-1248	ND	0.5	ug/L	1	05/13/25	SC	SW8082A
PCB-1254	ND	0.5	ug/L	1	05/13/25	SC	SW8082A
PCB-1260	ND	0.5	ug/L	1	05/13/25	SC	SW8082A
PCB-1262	ND	0.5	ug/L	1	05/13/25	SC	SW8082A
PCB-1268	ND	0.5	ug/L	1	05/13/25	SC	SW8082A

QA/QC Surrogates

% DCBP	71		%	1	05/13/25	SC	30 - 150 %
% DCBP (Confirmation)	71		%	1	05/13/25	SC	30 - 150 %
% TCMX	77		%	1	05/13/25	SC	30 - 150 %
% TCMX (Confirmation)	79		%	1	05/13/25	SC	30 - 150 %

Pesticides

4,4' -DDD	ND	0.002	ug/L	1	05/08/25	AW	SW8081B
4,4' -DDE	ND	0.002	ug/L	1	05/08/25	AW	SW8081B
4,4' -DDT	ND	0.010	ug/L	1	05/08/25	AW	SW8081B
α-BHC	ND	0.026	ug/L	1	05/08/25	AW	SW8081B
Alachlor	ND	0.077	ug/L	1	05/08/25	AW	SW8081B
Aldrin	ND	0.002	ug/L	1	05/08/25	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.010	ug/L	1	05/08/25	AW	SW8081B
Chlordane	ND	0.021	ug/L	1	05/08/25	AW	SW8081B
d-BHC	ND	0.026	ug/L	1	05/08/25	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	05/08/25	AW	SW8081B
Endosulfan I	ND	0.052	ug/L	1	05/08/25	AW	SW8081B
Endosulfan II	ND	0.052	ug/L	1	05/08/25	AW	SW8081B
Endosulfan Sulfate	ND	0.052	ug/L	1	05/08/25	AW	SW8081B
Endrin	ND	0.052	ug/L	1	05/08/25	AW	SW8081B
Endrin Aldehyde	ND	0.052	ug/L	1	05/08/25	AW	SW8081B
Endrin ketone	ND	0.052	ug/L	1	05/08/25	AW	SW8081B
g-BHC (Lindane)	ND	0.026	ug/L	1	05/08/25	AW	SW8081B
Heptachlor	ND	0.026	ug/L	1	05/08/25	AW	SW8081B
Heptachlor epoxide	ND	0.026	ug/L	1	05/08/25	AW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	05/08/25	AW	SW8081B
Toxaphene	ND	0.21	ug/L	1	05/08/25	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	39		%	1	05/08/25	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	17		%	1	05/08/25	AW	30 - 150 %
%TCMX (Surrogate Rec)	63		%	1	05/08/25	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	84		%	1	05/08/25	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/08/25	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	05/08/25	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	05/08/25	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	05/08/25	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	05/08/25	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/08/25	MH	SW8260
Acetone	ND	25	ug/L	1	05/08/25	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	05/08/25	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.70	ug/L	1	05/08/25	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	05/08/25	MH	SW8260
Bromoform	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	05/08/25	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Chloroform	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/08/25	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	05/08/25	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	05/08/25	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	05/08/25	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Styrene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/08/25	MH	SW8260
Toluene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	05/08/25	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/08/25	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/08/25	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	05/08/25	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	89		%	1	05/08/25	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	05/08/25	MH	70 - 130 %
% Dibromofluoromethane	92		%	1	05/08/25	MH	70 - 130 %
% Toluene-d8	89		%	1	05/08/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Oxygenates & Dioxane</u>							
1,4-Dioxane	ND	40	ug/L	1	05/08/25	MH	SW8260
Diethyl ether	ND	1.0	ug/L	1	05/08/25	MH	SW8260
Ethyl tert-butyl ether	ND	1.0	ug/L	1	05/08/25	MH	SW8260
tert-amyl methyl ether	ND	1.0	ug/L	1	05/08/25	MH	SW8260
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.7	ug/L	1	05/12/25	MR	SW8270E
1,2,4-Trichlorobenzene	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
1,2-Dichlorobenzene	ND	2.7	ug/L	1	05/12/25	MR	SW8270E
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	05/12/25	MR	SW8270E
1,3-Dichlorobenzene	ND	2.7	ug/L	1	05/12/25	MR	SW8270E
1,4-Dichlorobenzene	ND	2.7	ug/L	1	05/12/25	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
2,4,5-Trichlorophenol	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
2,4,6-Trichlorophenol	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
2,4-Dichlorophenol	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
2,4-Dimethylphenol	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
2,4-Dinitrophenol	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
2,4-Dinitrotoluene	ND	5.0	ug/L	1	05/12/25	MR	SW8270E
2,6-Dinitrotoluene	ND	5.0	ug/L	1	05/12/25	MR	SW8270E
2-Chloronaphthalene	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
2-Chlorophenol	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
2-Nitroaniline	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
2-Nitrophenol	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	11	ug/L	1	05/12/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	05/12/25	MR	SW8270E
3-Nitroaniline	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
4-Chloroaniline	ND	5.0	ug/L	1	05/12/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
4-Nitroaniline	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
4-Nitrophenol	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
Acetophenone	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
Aniline	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
Benzidine	ND	5.0	ug/L	1	05/12/25	MR	SW8270E
Benzoic acid	ND	53	ug/L	1	05/12/25	MR	SW8270E
Benzyl butyl phthalate	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
Carbazole	ND	5.0	ug/L	1	05/12/25	MR	SW8270E
Dibenzofuran	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
Diethyl phthalate	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
Dimethylphthalate	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
Di-n-butylphthalate	ND	5.3	ug/L	1	05/12/25	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Di-n-octylphthalate	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
Hexachloroethane	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
Isophorone	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
N-Nitrosodimethylamine	ND	5.0	ug/L	1	05/12/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	05/12/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	5.3	ug/L	1	05/12/25	MR	SW8270E
Pentachloronitrobenzene	ND	2.7	ug/L	1	05/12/25	MR	SW8270E
Phenol	ND	1.1	ug/L	1	05/12/25	MR	SW8270E
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	65		%	1	05/12/25	MR	15 - 110 %
% 2-Fluorobiphenyl	60		%	1	05/12/25	MR	30 - 130 %
% 2-Fluorophenol	44		%	1	05/12/25	MR	15 - 110 %
% Nitrobenzene-d5	54		%	1	05/12/25	MR	30 - 130 %
% Phenol-d5	49		%	1	05/12/25	MR	15 - 110 %
% Terphenyl-d14	56		%	1	05/12/25	MR	30 - 130 %
<u>Semivolatiles (SIM)</u>							
2-Methylnaphthalene	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Acenaphthene	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Acenaphthylene	ND	0.30	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Anthracene	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Chrysene	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Fluoranthene	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Fluorene	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Hexachlorobutadiene	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Hexachlorocyclopentadiene	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Naphthalene	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Nitrobenzene	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Pentachlorophenol	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Phenanthrene	ND	0.06	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Pyrene	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
Pyridine	ND	0.53	ug/L	1	05/10/25	KCA	SW8270E (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	70		%	1	05/10/25	KCA	15 - 110 %
% 2-Fluorobiphenyl	52		%	1	05/10/25	KCA	30 - 130 %
% 2-Fluorophenol	42		%	1	05/10/25	KCA	15 - 110 %
% Nitrobenzene-d5	70		%	1	05/10/25	KCA	30 - 130 %
% Phenol-d5	49		%	1	05/10/25	KCA	15 - 110 %
% Terphenyl-d14	52		%	1	05/10/25	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

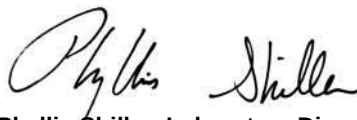
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Dissolved analysis requires filtration. Samples submitted from an unpreserved container have been lab filtered.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

8:00
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21527

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-TB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/07/25	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	05/07/25	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	05/07/25	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	05/07/25	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	05/07/25	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/07/25	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	05/07/25	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	05/07/25	MH	SW8260
Benzene	ND	0.70	ug/L	1	05/07/25	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	05/07/25	MH	SW8260
Bromoform	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	05/07/25	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Chloroform	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/25	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	05/07/25	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	05/07/25	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	05/07/25	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Styrene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/07/25	MH	SW8260
Toluene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	05/07/25	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/25	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/07/25	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	05/07/25	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	89		%	1	05/07/25	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	05/07/25	MH	70 - 130 %
% Dibromofluoromethane	92		%	1	05/07/25	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	88		%	1	05/07/25	MH	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	40	ug/L	1	05/07/25	MH	SW8260
Diethyl ether	ND	1.0	ug/L	1	05/07/25	MH	SW8260
Ethyl tert-butyl ether	ND	1.0	ug/L	1	05/07/25	MH	SW8260
tert-amyl methyl ether	ND	1.0	ug/L	1	05/07/25	MH	SW8260

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

8:00
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21528

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-TB 2 LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				05/06/25		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/08/25	JLI	SW8260
Acetone	ND	250	ug/Kg	1	05/08/25	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/08/25	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/08/25	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/08/25	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	99		%	1	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/08/25	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/08/25	JLI	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	100	ug/Kg	1	05/08/25	JLI	SW8260
Diethyl ether	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	5.0	ug/Kg	1	05/08/25	JLI	SW8260

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

Analysis Report

May 22, 2025

FOR: Attn: Ethan Stewart
Fuss & O'Neill, Inc.
59 Elm Street Suite 500
New Haven, CT

Sample Information

Matrix: SOIL
Location Code: F&O-NEWHAVEN
Rush Request: Standard
P.O.#: 20210730.A62

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/06/25
05/07/25

Time

8:00
14:25

Laboratory Data

SDG ID: GCT21506
Phoenix ID: CT21529

Project ID: DOT SOUTHTON REST AREA
Client ID: 1960250506-TB 2 HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				05/06/25		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	50	ug/Kg	50	05/08/25	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	50	05/08/25	JLI	SW8260
1,1,2-Trichloroethane	ND	100	ug/Kg	50	05/08/25	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
1,1-Dichloroethene	ND	140	ug/Kg	50	05/08/25	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/08/25	JLI	SW8260
1,2-Dibromoethane	ND	25	ug/Kg	50	05/08/25	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
1,2-Dichloroethane	ND	25	ug/Kg	50	05/08/25	JLI	SW8260
1,2-Dichloropropane	ND	100	ug/Kg	50	05/08/25	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
2-Hexanone	ND	700	ug/Kg	50	05/08/25	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/08/25	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	05/08/25	JLI	SW8260
Acrylonitrile	ND	25	ug/Kg	50	05/08/25	JLI	SW8260
Benzene	ND	25	ug/Kg	50	05/08/25	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Bromodichloromethane	ND	50	ug/Kg	50	05/08/25	JLI	SW8260
Bromoform	ND	80	ug/Kg	50	05/08/25	JLI	SW8260
Bromomethane	ND	100	ug/Kg	50	05/08/25	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Carbon tetrachloride	ND	100	ug/Kg	50	05/08/25	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Chloroethane	ND	150	ug/Kg	50	05/08/25	JLI	SW8260
Chloroform	ND	120	ug/Kg	50	05/08/25	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
cis-1,3-Dichloropropene	ND	25	ug/Kg	50	05/08/25	JLI	SW8260
Dibromochloromethane	ND	50	ug/Kg	50	05/08/25	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Hexachlorobutadiene	ND	200	ug/Kg	50	05/08/25	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/08/25	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Methylene chloride	ND	100	ug/Kg	50	05/08/25	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Styrene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Tetrachloroethene	ND	100	ug/Kg	50	05/08/25	JLI	SW8260
Tetrahydrofuran (THF)	ND	130	ug/Kg	50	05/08/25	JLI	SW8260
Toluene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
trans-1,3-Dichloropropene	ND	25	ug/Kg	50	05/08/25	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/08/25	JLI	SW8260
Trichloroethene	ND	100	ug/Kg	50	05/08/25	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Vinyl chloride	ND	40	ug/Kg	50	05/08/25	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/08/25	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	99		%	50	05/08/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	93		%	50	05/08/25	JLI	70 - 130 %
% Toluene-d8 (50x)	98		%	50	05/08/25	JLI	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	800	ug/Kg	50	05/08/25	JLI	SW8260
Diethyl ether	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
Ethyl tert-butyl ether	ND	250	ug/Kg	50	05/08/25	JLI	SW8260
tert-amyl methyl ether	ND	250	ug/Kg	50	05/08/25	JLI	SW8260

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 22, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

May 22, 2025

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 783287 (mg/kg), QC Sample No: CT21176 (CT21506, CT21507, CT21508)													
Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	113	119	5.2	96.7	93.7	3.2	70 - 130	30
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 783276 (mg/L), QC Sample No: CT21475 (CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	101			86.7			80 - 120	20
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 783289 (mg/kg), QC Sample No: CT21509 (CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524, CT21525)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	109	107	1.9	103	110	6.6	70 - 130	30
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 783277 (mg/L), QC Sample No: CT21513 (CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522)													
Mercury - Water	BRL	0.0002		<0.0002		97.5			101			80 - 120	20
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 783916 (mg/L), QC Sample No: CT21593 (CT21526)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	97.6			97.4	97.8	0.4	80 - 120	20
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 783278 (mg/L), QC Sample No: CT21605 (CT21523, CT21524, CT21525)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	107			103			80 - 120	20
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 783917 (mg/L), QC Sample No: CT21777 (CT21526)													
Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0002	NC	97.6			105			80 - 120	20
Comment:													
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.													
QA/QC Batch 783154 (mg/kg), QC Sample No: CT20744 (CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524)													
ICP Metals - Soil													
Antimony	BRL	3.3	<3.5	<3.3	NC	82.2	83.1	1.1	88.1			75 - 125	30
Arsenic	BRL	0.67	<0.70	<0.66	NC	101	102	1.0	92.4			75 - 125	30

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Barium	BRL	0.33	8.25	8.89	7.50	95.7	97.3	1.7	101			75 - 125	30
Beryllium	BRL	0.27	0.29	0.31	NC	101	102	1.0	97.1			75 - 125	30
Cadmium	BRL	0.33	<0.35	<0.33	NC	95.4	98.9	3.6	93.3			75 - 125	30
Chromium	BRL	0.33	1.41	1.81	NC	104	107	2.8	99.1			75 - 125	30
Lead	BRL	0.33	1.50	1.56	NC	99.4	101	1.6	98.7			75 - 125	30
Nickel	BRL	0.33	1.24	1.31	NC	100	103	3.0	95.1			75 - 125	30
Selenium	BRL	1.3	<1.4	<1.3	NC	87.7	87.4	0.3	77.5			75 - 125	30
Silver	BRL	0.33	<0.35	<0.33	NC	103	105	1.9	95.6			75 - 125	30
Thallium	BRL	3.0	<3.2	<3.0	NC	103	107	3.8	98.5			75 - 125	30
Vanadium	BRL	0.33	5.51	5.20	5.80	109	111	1.8	101			75 - 125	30
Zinc	BRL	0.67	11.3	12.6	10.9	101	103	2.0	91.8			75 - 125	30

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Batch 783234 (mg/L), QC Sample No: CT21143 (CT21526)

ICP Metals - Dissolved

Arsenic	BRL	0.004	<0.004	<0.004	NC	88.9	86.8	2.4	91.5	87.1	4.9	80 - 120	20
Barium	BRL	0.002	0.012	0.012	0	90.3	88.4	2.1	93.1	88.3	5.3	80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	89.5	87.2	2.6	91.7	86.1	6.3	80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	89.2	87.5	1.9	91.8	86.3	6.2	80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	92.0	90.1	2.1	94.8	89.2	6.1	80 - 120	20
Lead	BRL	0.002	<0.002	<0.002	NC	90.2	87.4	3.2	91.9	87.5	4.9	80 - 120	20
Nickel	BRL	0.001	0.001	0.001	NC	91.7	89.6	2.3	94.4	88.5	6.5	80 - 120	20
Selenium	BRL	0.011	<0.011	<0.011	NC	86.4	88.4	2.3	90.7	86.1	5.2	80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	88.5	87.3	1.4	91.9	86.7	5.8	80 - 120	20
Zinc	BRL	0.002	0.003	0.003	NC	90.1	88.3	2.0	92.9	87.6	5.9	80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Batch 783153 (mg/kg), QC Sample No: CT21329 (CT21506, CT21507, CT21508, CT21509, CT21510)

ICP Metals - Soil

Antimony	BRL	3.3	<3.6	<3.7	NC	96.1	89.3	7.3	89.8			75 - 125	30
Arsenic	BRL	0.67	3.11	2.90	NC	104	99.9	4.0	95.7			75 - 125	30
Barium	BRL	0.33	57.5	45.9	22.4	119	88.5	29.4	101			75 - 125	30
Beryllium	BRL	0.27	0.40	0.39	NC	107	104	2.8	101			75 - 125	30
Cadmium	BRL	0.33	<0.36	<0.37	NC	107	103	3.8	97.8			75 - 125	30
Chromium	BRL	0.33	17.2	14.5	17.0	112	105	6.5	100			75 - 125	30
Lead	BRL	0.33	24.6	24.1	2.10	111	106	4.6	105			75 - 125	30
Nickel	BRL	0.33	15.2	12.7	17.9	111	105	5.6	97.2			75 - 125	30
Selenium	BRL	1.3	<1.4	<1.5	NC	89.4	85.6	4.3	80.1			75 - 125	30
Silver	BRL	0.33	<0.36	<0.37	NC	108	104	3.8	102			75 - 125	30
Thallium	BRL	3.0	<3.2	<3.3	NC	110	106	3.7	97.9			75 - 125	30
Vanadium	BRL	0.33	55.5	47.8	14.9	116	109	6.2	93.4			75 - 125	30
Zinc	BRL	0.67	62.0	51.2	19.1	109	105	3.7	114			75 - 125	30

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Batch 783280 (mg/L), QC Sample No: CT21506 (CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.01	<0.01	<0.01	NC	106	106	0.0	107			80 - 120	20

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Barium	BRL	0.01	0.45	0.45	0	102	103	1.0	103			80 - 120	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	101	101	0.0	101			80 - 120	20
Chromium	BRL	0.010	<0.010	<0.010	NC	102	102	0.0	103			80 - 120	20
Copper	BRL	0.010	<0.010	<0.010	NC	103	103	0.0	104			80 - 120	20
Lead	BRL	0.010	<0.010	<0.010	NC	99.4	99.8	0.4	100			80 - 120	20
Nickel	BRL	0.010	<0.010	<0.010	NC	98.5	98.7	0.2	98.3			80 - 120	20
Selenium	BRL	0.01	<0.01	<0.05	NC	103	102	1.0	103			80 - 120	20
Silver	BRL	0.010	<0.010	<0.010	NC	106	106	0.0	106			80 - 120	20
Zinc	BRL	0.010	0.029	0.030	NC	99.5	99.7	0.2	100			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Batch 783283 (mg/L), QC Sample No: CT21507 (CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524, CT21525)

ICP Metals - SPLP Extraction

Arsenic	BRL	0.004	0.005	0.004	NC	103	104	1.0	103			80 - 120	20
Barium	BRL	0.010	0.170	0.164	3.60	98.6	99.6	1.0	99.8			80 - 120	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	99.3	99.6	0.3	98.2			80 - 120	20
Chromium	BRL	0.010	<0.010	<0.010	NC	101	101	0.0	99.5			80 - 120	20
Copper	BRL	0.010	<0.010	<0.010	NC	98.0	98.5	0.5	97.5			80 - 120	20
Lead	BRL	0.010	<0.010	<0.010	NC	98.1	99.6	1.5	97.9			80 - 120	20
Nickel	BRL	0.010	<0.010	<0.010	NC	99.1	99.7	0.6	98.9			80 - 120	20
Selenium	BRL	0.020	<0.020	<0.020	NC	104	105	1.0	103			80 - 120	20
Silver	BRL	0.010	<0.010	<0.010	NC	97.5	98.1	0.6	97.6			80 - 120	20
Zinc	BRL	0.010	0.020	0.021	NC	98.8	99.3	0.5	99.1			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Batch 783207 (mg/kg), QC Sample No: CT21605 (CT21525)

ICP Metals - Soil

Antimony	BRL	3.3	<2.0	<3.5	NC	92.9	98.9	6.3	91.5			75 - 125	30
Arsenic	BRL	0.67	<0.75	0.96	NC	97.9	105	7.0	97.9			75 - 125	30
Barium	BRL	0.33	28.6	29.0	1.40	88.4	117	27.8	105			75 - 125	30
Beryllium	BRL	0.27	<0.30	0.31	NC	106	116	9.0	104			75 - 125	30
Cadmium	BRL	0.33	<0.37	<0.35	NC	110	121	9.5	104			75 - 125	30
Chromium	BRL	0.33	9.01	11.4	23.4	106	117	9.9	107			75 - 125	30
Lead	BRL	0.33	5.09	5.58	9.20	104	113	8.3	103			75 - 125	30
Nickel	BRL	0.33	4.83	5.02	3.90	106	116	9.0	106			75 - 125	30
Selenium	BRL	1.3	<1.5	<1.4	NC	86.5	94.1	8.4	83.6			75 - 125	30
Silver	BRL	0.33	<0.37	<0.35	NC	101	109	7.6	100			75 - 125	30
Thallium	BRL	3.0	<0.8	<3.1	NC	111	122	9.4	102			75 - 125	30
Vanadium	BRL	0.33	27.3	26.7	2.20	107	118	9.8	107			75 - 125	30
Zinc	BRL	0.67	19.6	20.2	3.00	102	110	7.5	104			75 - 125	30

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Batch 783281 (mg/L), QC Sample No: CT21606 (CT21521, CT21522, CT21523, CT21524, CT21525)

ICP Metals - TCLP Extraction

Arsenic	BRL	0.01	<0.01	<0.01	NC	106	106	0.0	106			80 - 120	20
Barium	BRL	0.01	0.24	0.24	0	100	101	1.0	100			80 - 120	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	98.2	98.4	0.2	98.0			80 - 120	20

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chromium	BRL	0.010	<0.010	<0.010	NC	101	101	0.0	101			80 - 120	20
Copper	BRL	0.010	<0.010	<0.010	NC	102	103	1.0	103			80 - 120	20
Lead	BRL	0.010	<0.010	<0.010	NC	97.1	97.7	0.6	97.5			80 - 120	20
Nickel	BRL	0.010	<0.010	<0.010	NC	97.0	97.2	0.2	96.9			80 - 120	20
Selenium	BRL	0.01	<0.01	<0.01	NC	103	103	0.0	104			80 - 120	20
Silver	BRL	0.010	<0.010	<0.010	NC	102	103	1.0	102			80 - 120	20
Zinc	BRL	0.010	0.078	0.081	3.80	98.4	99.0	0.6	98.3			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QA/QC Batch 783660 (mg/L), QC Sample No: CT21743 (CT21526)

ICP Metals - Aqueous

Arsenic	BRL	0.004	<0.004	<0.004	NC	106	102	3.8	102			80 - 120	20
Barium	BRL	0.002	<0.002	<0.002	NC	110	106	3.7	105			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	108	104	3.8	104			80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	110	106	3.7	105			80 - 120	20
Copper	BRL	0.005	0.005	0.006	NC	111	107	3.7	107			80 - 120	20
Lead	BRL	0.001	0.002	0.002	NC	110	106	3.7	105			80 - 120	20
Nickel	BRL	0.001	0.004	0.004	NC	113	109	3.6	107			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	99.0	99.0	0.0	94.4			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	108	103	4.7	104			80 - 120	20
Zinc	BRL	0.004	0.009	0.009	NC	105	102	2.9	101			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

May 22, 2025

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 784134 (mg/Kg), QC Sample No: CT16387 (CT21506, CT21507, CT21508, CT21509, CT21510, CT21511)													
Reactivity Cyanide	BRL	5	<6	<5.5	NC	98.2						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	100						80 - 120	30
QA/QC Batch 784318 (mg/Kg), QC Sample No: CT21512 (CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524, CT21525)													
Reactivity Cyanide	BRL	5	<7	<6.8	NC	98.6						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	100						80 - 120	30
QA/QC Batch 783251 (PH), QC Sample No: CT21234 (CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513)													
pH			7.13	7.14	0.10	100						85 - 115	20
QA/QC Batch 783241 (umhos/cm), QC Sample No: CT21367 (CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522)													
Conductivity - Soil Matrix	BRL	5	96	97	1.00	104						75 - 125	30
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 783629 (Degree F), QC Sample No: CT21507 (CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524, CT21525)													
Flash Point			>200	>200	NC	101						75 - 125	30
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 783250 (PH), QC Sample No: CT21514 (CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524, CT21525)													
pH			7.99	7.95	0.50	99.3						85 - 115	20
QA/QC Batch 783242 (umhos/cm), QC Sample No: CT21523 (CT21523, CT21524, CT21525)													
Conductivity - Soil Matrix	BRL	5	22	22	NC	103						75 - 125	30
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 783628 (Degree F), QC Sample No: CT22735 (CT21506)													
Flash Point			>200	>200	NC	103						75 - 125	30
Comment: Additional criteria matrix spike acceptance range is 75-125%.													



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QA/QC Report

May 22, 2025

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 783810 (mg/L), QC Sample No: CT21143 (CT21526)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	87	100	13.9	97	94	3.1	60 - 120	20
% Terphenyl (surr)	80	%	78	89	13.2	87	86	1.2	50 - 150	20

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 784769 (mg/Kg), QC Sample No: CT21458 (CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	104	89	15.5	150	148	1.3	60 - 120	30
% COD (surr)	88	%	116	95	19.9	120	120	0.0	50 - 150	30
% Terphenyl (surr)	86	%	92	80	14.0	85	79	7.3	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 784791 (mg/Kg), QC Sample No: CT21755 (CT21520, CT21521, CT21522, CT21523, CT21524, CT21525)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	73	75	2.7	50	53	5.8	60 - 120	30
% COD (surr)	68	%	113	101	11.2	81	93	13.8	50 - 150	30
% Terphenyl (surr)	72	%	98	99	1.0	81	108	28.6	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 783669 (ug/Kg), QC Sample No: CT21333 (CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	72	70	2.8	48	48	0.0	40 - 140	30
2,4,5-TP (Silvex)	ND	130	80	78	2.5	57	55	3.6	40 - 140	30
2,4-D	ND	250	77	76	1.3	53	52	1.9	40 - 140	30
2,4-DB	ND	2500	56	56	0.0	39	38	2.6	40 - 140	30
Dalapon	ND	130	79	72	9.3	67	62	7.8	40 - 140	30
Dicamba	ND	130	82	77	6.3	64	60	6.5	40 - 140	30
Dichloroprop	ND	130	90	86	4.5	65	63	3.1	40 - 140	30
Dinoseb	ND	130	73	72	1.4	94	87	7.7	40 - 140	30
MCPA	ND	38000	69	66	4.4	38	38	0.0	40 - 140	30
MCPP	ND	38000	69	65	6.0	44	43	2.3	40 - 140	30
% DCAA (Surrogate Rec)	99	%	99	96	3.1	69	68	1.5	30 - 150	30
% DCAA (Surrogate Rec) (Confirm)	114	%	114	112	1.8	84	83	1.2	30 - 150	30

Comment:

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 783987 (ug/Kg), QC Sample No: CT21520 (CT21520, CT21521, CT21522, CT21523, CT21524, CT21525)										
Chlorinated Herbicides - Soil										
2,4,5-T	ND	130	61	58	5.0	45	49	8.5	40 - 140	30
2,4,5-TP (Silvex)	ND	130	70	69	1.4	55	58	5.3	40 - 140	30
2,4-D	ND	250	69	65	6.0	53	53	0.0	40 - 140	30
2,4-DB	ND	2500	48	67	33.0	36	32	11.8	40 - 140	30
Dalapon	ND	130	65	62	4.7	49	52	5.9	40 - 140	30
Dicamba	ND	130	72	68	5.7	55	60	8.7	40 - 140	30
Dichloroprop	ND	130	74	76	2.7	63	63	0.0	40 - 140	30
Dinoseb	ND	130	70	74	5.6	59	66	11.2	40 - 140	30
MCPA	ND	38000	69	88	24.2	36	32	11.8	40 - 140	30
MCP	ND	38000	71	81	13.2	39	40	2.5	40 - 140	30
% DCAA (Surrogate Rec)	87	%	78	83	6.2	64	63	1.6	30 - 150	30
% DCAA (Surrogate Rec) (Confirm	76	%	66	97	38.0	74	71	4.1	30 - 150	30
Comment:										

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 783884 (ug/L), QC Sample No: CT21526 (CT21526)

Chlorinated Herbicides - Ground Water

2,4,5-T	ND	2.5	96	96	0.0				40 - 140	20
2,4,5-TP (Silvex)	ND	2.5	90	92	2.2				40 - 140	20
2,4-D	ND	5.0	85	87	2.3				40 - 140	20
2,4-DB	ND	50	43	44	2.3				40 - 140	20
Dalapon	ND	2.5	91	92	1.1				40 - 140	20
Dicamba	ND	2.5	83	86	3.6				40 - 140	20
Dichloroprop	ND	5.0	93	106	13.1				40 - 140	20
Dinoseb	ND	5.0	85	86	1.2				40 - 140	20
MCPA	ND	750	93	103	10.2				40 - 140	20
MCP	ND	750	93	96	3.2				40 - 140	20
% DCAA (Surrogate Rec)	65	%	69	69	0.0				30 - 150	20
% DCAA (Surrogate Rec) (Confirm	74	%	76	85	11.2				30 - 150	20
Comment:										

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 784640 (ug/Kg), QC Sample No: CT21515 (CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	94	89	5.5	76	89	15.8	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	91	86	5.6	74	85	13.8	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	94	%	105	95	10.0	83	91	9.2	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	104	%	113	106	6.4	90	100	10.5	30 - 150	30
% TCMX (Surrogate Rec)	87	%	96	91	5.3	80	92	14.0	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	91	%	102	98	4.0	86	99	14.1	30 - 150	30

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 784027 (ug/L), QC Sample No: CT22381 (CT21526)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	0.050	69	64	7.5				40 - 140	20
PCB-1221	ND	0.050							40 - 140	20
PCB-1232	ND	0.050							40 - 140	20
PCB-1242	ND	0.050							40 - 140	20
PCB-1248	ND	0.050							40 - 140	20
PCB-1254	ND	0.050							40 - 140	20
PCB-1260	ND	0.050	87	74	16.1				40 - 140	20
PCB-1262	ND	0.050							40 - 140	20
PCB-1268	ND	0.050							40 - 140	20
% DCBP (Surrogate Rec)	68	%	87	76	13.5				30 - 150	20
% DCBP (Surrogate Rec) (Confirm	65	%	87	77	12.2				30 - 150	20
% TCMX (Surrogate Rec)	52	%	70	68	2.9				30 - 150	20
% TCMX (Surrogate Rec) (Confirm	52	%	72	71	1.4				30 - 150	20

QA/QC Batch 784710 (ug/Kg), QC Sample No: CT28972 (CT21521, CT21522, CT21523, CT21524, CT21525)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	76	73	4.0	67	59	12.7	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	76	74	2.7	65	56	14.9	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	NR	%	103	89	14.6	72	67	7.2	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	NR	%	113	97	15.2	77	72	6.7	30 - 150	30
% TCMX (Surrogate Rec)	NR	%	90	79	13.0	68	70	2.9	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	NR	%	98	87	11.9	75	77	2.6	30 - 150	30

Comment:

NR - surrogates were not added to blank and are not reported.

QA/QC Batch 783122 (ug/L), QC Sample No: CT18225 (CT21526)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	83	87	4.7				40 - 140	20
4,4' -DDE	ND	0.003	86	85	1.2				40 - 140	20
4,4' -DDT	ND	0.003	73	87	17.5				40 - 140	20
a-BHC	ND	0.002	73	70	4.2				40 - 140	20
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20
Aldrin	ND	0.002	59	55	7.0				40 - 140	20
b-BHC	ND	0.002	76	76	0.0				40 - 140	20
Chlordane	ND	0.050	73	74	1.4				40 - 140	20
d-BHC	ND	0.005	49	47	4.2				40 - 140	20
Dieldrin	ND	0.002	80	79	1.3				40 - 140	20
Endosulfan I	ND	0.005	80	83	3.7				40 - 140	20
Endosulfan II	ND	0.005	86	83	3.6				40 - 140	20
Endosulfan sulfate	ND	0.005	68	71	4.3				40 - 140	20
Endrin	ND	0.005	84	80	4.9				40 - 140	20
Endrin aldehyde	ND	0.005	78	80	2.5				40 - 140	20
Endrin ketone	ND	0.005	77	71	8.1				40 - 140	20
g-BHC	ND	0.002	84	81	3.6				40 - 140	20

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Heptachlor	ND	0.005	73	70	4.2				40 - 140	20
Heptachlor epoxide	ND	0.005	80	81	1.2				40 - 140	20
Methoxychlor	ND	0.005	80	74	7.8				40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20
% DCBP	74	%	76	73	4.0				30 - 150	20
% DCBP (Confirmation)	43	%	47	46	2.2				30 - 150	20
% TCMX	72	%	75	72	4.1				30 - 150	20
% TCMX (Confirmation)	83	%	88	84	4.7				30 - 150	20

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 784641 (ug/Kg), QC Sample No: CT21515 (CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21516, CT21517, CT21518, CT21519, CT21520)

Pesticides - Soil

4,4' -DDD	ND	1.7	71	89	22.5	60	59	1.7	40 - 140	30
4,4' -DDE	ND	1.7	72	89	21.1	61	62	1.6	40 - 140	30
4,4' -DDT	ND	1.7	65	82	23.1	56	57	1.8	40 - 140	30
a-BHC	ND	1.0	67	83	21.3	59	60	1.7	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	67	82	20.1	58	59	1.7	40 - 140	30
b-BHC	ND	1.0	69	81	16.0	62	62	0.0	40 - 140	30
Chlordane	ND	33	74	89	18.4	60	61	1.7	40 - 140	30
d-BHC	ND	3.3	72	75	4.1	60	62	3.3	40 - 140	30
Dieldrin	ND	1.0	70	87	21.7	60	61	1.7	40 - 140	30
Endosulfan I	ND	3.3	63	76	18.7	54	55	1.8	40 - 140	30
Endosulfan II	ND	3.3	68	83	19.9	58	60	3.4	40 - 140	30
Endosulfan sulfate	ND	3.3	70	87	21.7	61	62	1.6	40 - 140	30
Endrin	ND	3.3	78	97	21.7	66	71	7.3	40 - 140	30
Endrin aldehyde	ND	3.3	66	80	19.2	53	54	1.9	40 - 140	30
Endrin ketone	ND	3.3	75	93	21.4	62	64	3.2	40 - 140	30
g-BHC	ND	1.0	71	87	20.3	61	62	1.6	40 - 140	30
Heptachlor	ND	3.3	63	77	20.0	53	53	0.0	40 - 140	30
Heptachlor epoxide	ND	3.3	70	86	20.5	61	70	13.7	40 - 140	30
Methoxychlor	ND	3.3	62	79	24.1	50	53	5.8	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	64	%	63	74	16.1	55	57	3.6	30 - 150	30
% DCBP (Confirmation)	44	%	46	53	14.1	43	44	2.3	30 - 150	30
% TCMX	65	%	66	77	15.4	55	57	3.6	30 - 150	30
% TCMX (Confirmation)	67	%	68	80	16.2	66	67	1.5	30 - 150	30

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 784711 (ug/Kg), QC Sample No: CT28972 (CT21521, CT21522, CT21523, CT21524, CT21525)

Pesticides - Soil

4,4' -DDD	ND	1.7	64	58	9.8	52	47	10.1	40 - 140	30
4,4' -DDE	ND	1.7	68	61	10.9	55	49	11.5	40 - 140	30
4,4' -DDT	ND	1.7	66	59	11.2	56	49	13.3	40 - 140	30
a-BHC	ND	1.0	56	52	7.4	46	44	4.4	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	64	58	9.8	49	44	10.8	40 - 140	30
b-BHC	ND	1.0	68	59	14.2	51	47	8.2	40 - 140	30
Chlordane	ND	33	66	60	9.5	57	52	9.2	40 - 140	30

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
d-BHC	ND	3.3	64	56	13.3	41	37	10.3	40 - 140	30
Dieldrin	ND	1.0	68	61	10.9	54	48	11.8	40 - 140	30
Endosulfan I	ND	3.3	73	66	10.1	56	50	11.3	40 - 140	30
Endosulfan II	ND	3.3	73	63	14.7	52	47	10.1	40 - 140	30
Endosulfan sulfate	ND	3.3	69	62	10.7	56	50	11.3	40 - 140	30
Endrin	ND	3.3	70	63	10.5	55	49	11.5	40 - 140	30
Endrin aldehyde	ND	3.3	69	60	14.0	43	40	7.2	40 - 140	30
Endrin ketone	ND	3.3	76	69	9.7	61	58	5.0	40 - 140	30
g-BHC	ND	1.0	73	67	8.6	58	54	7.1	40 - 140	30
Heptachlor	ND	3.3	67	61	9.4	53	48	9.9	40 - 140	30
Heptachlor epoxide	ND	3.3	67	61	9.4	56	49	13.3	40 - 140	30
Methoxychlor	ND	3.3	73	61	17.9	56	49	13.3	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	60	%	71	64	10.4	57	52	9.2	30 - 150	30
% DCBP (Confirmation)	36	%	43	38	12.3	34	29	15.9	30 - 150	30 m
% TCMX	52	%	61	56	8.5	49	47	4.2	30 - 150	30
% TCMX (Confirmation)	61	%	71	66	7.3	58	53	9.0	30 - 150	30

Comment:

8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 783404 (ug/L), QC Sample No: CT20374 (CT21526)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	3.5	70	59	17.1				40 - 140	20	
1,2,4-Trichlorobenzene	ND	3.5	72	57	23.3				40 - 140	20	r
1,2-Dichlorobenzene	ND	1.0	68	55	21.1				40 - 140	20	r
1,2-Diphenylhydrazine	ND	1.6	43	67	43.6				40 - 140	20	r
1,3-Dichlorobenzene	ND	1.0	69	53	26.2				40 - 140	20	r
1,4-Dichlorobenzene	ND	1.0	66	53	21.8				40 - 140	20	r
2,2'-Oxybis(1-Chloropropane)	ND	1.0	56	50	11.3				40 - 140	20	
2,4,5-Trichlorophenol	ND	1.0	77	70	9.5				40 - 140	20	
2,4,6-Trichlorophenol	ND	1.0	80	72	10.5				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	74	59	22.6				30 - 130	20	r
2,4-Dimethylphenol	ND	1.0	76	64	17.1				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	79	71	10.7				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	86	86	0.0				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	83	80	3.7				40 - 140	20	
2-Chloronaphthalene	ND	3.5	75	70	6.9				40 - 140	20	
2-Chlorophenol	ND	1.0	67	52	25.2				30 - 130	20	r
2-Methylphenol (o-cresol)	ND	1.0	57	50	13.1				40 - 140	20	
2-Nitroaniline	ND	3.5	97	97	0.0				40 - 140	20	
2-Nitrophenol	ND	1.0	66	53	21.8				40 - 140	20	r
3&4-Methylphenol (m&p-cresol)	ND	1.0	66	59	11.2				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	40	40	0.0				40 - 140	20	
3-Nitroaniline	ND	5.0	84	84	0.0				40 - 140	20	
4,6-Dinitro-2-methylphenol	ND	1.0	82	82	0.0				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	85	83	2.4				40 - 140	20	
4-Chloro-3-methylphenol	ND	1.0	75	62	19.0				30 - 130	20	
4-Chloroaniline	ND	3.5	46	46	0.0				40 - 140	20	
4-Chlorophenyl phenyl ether	ND	1.0	77	72	6.7				40 - 140	20	
4-Nitroaniline	ND	5.0	52	77	38.8				40 - 140	20	r
4-Nitrophenol	ND	1.0	74	75	1.3				30 - 130	20	
Acetophenone	ND	3.5	68	62	9.2				40 - 140	20	

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Aniline	ND	3.5	12	12	0.0				40 - 140	20	I
Benzidine	ND	4.5	<10	<10	NC				40 - 140	20	I
Benzoic acid	ND	10	87	51	52.2				30 - 130	20	r
Benzyl butyl phthalate	ND	1.5	76	88	14.6				40 - 140	20	
Bis(2-chloroethoxy)methane	ND	3.5	14	63	127.3				40 - 140	20	I,r
Bis(2-chloroethyl)ether	ND	1.0	69	61	12.3				40 - 140	20	
Bis(2-ethylhexyl)phthalate	ND	5.0	82	89	8.2				40 - 140	20	
Carbazole	ND	5.0	39	85	74.2				40 - 140	20	I,r
Dibenzofuran	ND	3.5	75	71	5.5				40 - 140	20	
Diethyl phthalate	ND	1.5	76	77	1.3				40 - 140	20	
Dimethylphthalate	ND	1.5	76	75	1.3				40 - 140	20	
Di-n-butylphthalate	ND	1.5	82	90	9.3				40 - 140	20	
Di-n-octylphthalate	ND	1.5	83	92	10.3				40 - 140	20	
Hexachloroethane	ND	3.5	67	53	23.3				40 - 140	20	r
Isophorone	ND	3.5	70	60	15.4				40 - 140	20	
N-Nitrosodimethylamine	ND	1.0	60	49	20.2				40 - 140	20	
N-Nitrosodi-n-propylamine	ND	3.5	72	67	7.2				40 - 140	20	
N-Nitrosodiphenylamine	ND	3.5	41	64	43.8				40 - 140	20	r
Pentachloronitrobenzene	ND	5.0	80	81	1.2				40 - 140	20	
Phenol	ND	1.0	63	51	21.1				30 - 130	20	r
% 2,4,6-Tribromophenol	67	%	74	72	2.7				15 - 110	20	
% 2-Fluorobiphenyl	74	%	70	66	5.9				30 - 130	20	
% 2-Fluorophenol	57	%	59	40	38.4				15 - 110	20	r
% Nitrobenzene-d5	69	%	65	59	9.7				30 - 130	20	
% Phenol-d5	62	%	45	48	6.5				15 - 110	20	
% Terphenyl-d14	85	%	73	81	10.4				30 - 130	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 784771 (ug/kg), QC Sample No: CT21507 (CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	61	55	10.3	62	51	19.5	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	63	57	10.0	63	54	15.4	40 - 140	30
1,2-Dichlorobenzene	ND	180	60	54	10.5	60	52	14.3	40 - 140	30
1,2-Diphenylhydrazine	ND	230	68	64	6.1	70	59	17.1	40 - 140	30
1,3-Dichlorobenzene	ND	230	59	53	10.7	58	51	12.8	40 - 140	30
1,4-Dichlorobenzene	ND	230	58	52	10.9	57	49	15.1	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	54	49	9.7	54	46	16.0	40 - 140	30
2,4,5-Trichlorophenol	ND	230	70	63	10.5	69	60	14.0	40 - 140	30
2,4,6-Trichlorophenol	ND	130	72	66	8.7	64	52	20.7	30 - 130	30
2,4-Dichlorophenol	ND	130	67	62	7.8	65	54	18.5	30 - 130	30
2,4-Dimethylphenol	ND	230	75	69	8.3	33	33	0.0	30 - 130	30
2,4-Dinitrophenol	ND	230	74	65	12.9	72	57	23.3	30 - 130	30
2,4-Dinitrotoluene	ND	130	80	72	10.5	80	67	17.7	30 - 130	30
2,6-Dinitrotoluene	ND	130	75	68	9.8	78	63	21.3	40 - 140	30
2-Chloronaphthalene	ND	230	69	63	9.1	70	58	18.8	40 - 140	30
2-Chlorophenol	ND	230	65	59	9.7	60	52	14.3	30 - 130	30
2-Methylnaphthalene	ND	230	65	59	9.7	65	56	14.9	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	66	62	6.3	52	47	10.1	40 - 140	30
2-Nitroaniline	ND	330	96	90	6.5	93	82	12.6	40 - 140	30

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Nitrophenol	ND	230	68	61	10.9	67	58	14.4	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	67	61	9.4	45	41	9.3	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	66	73	10.1	15	15	0.0	40 - 140	30	m
3-Nitroaniline	ND	330	79	74	6.5	80	69	14.8	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	79	71	10.7	78	66	16.7	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	75	71	5.5	79	64	21.0	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	70	65	7.4	67	56	17.9	30 - 130	30	
4-Chloroaniline	ND	230	67	63	6.2	65	58	11.4	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	70	65	7.4	72	59	19.8	40 - 140	30	
4-Nitroaniline	ND	230	79	72	9.3	82	69	17.2	40 - 140	30	
4-Nitrophenol	ND	230	64	57	11.6	61	51	17.9	30 - 130	30	
Acenaphthene	ND	230	68	62	9.2	68	58	15.9	30 - 130	30	
Acenaphthylene	ND	130	62	57	8.4	63	53	17.2	40 - 140	30	
Acetophenone	ND	230	63	56	11.8	62	53	15.7	40 - 140	30	
Aniline	ND	330	35	56	46.2	31	26	17.5	40 - 140	30	l,m,r
Anthracene	ND	230	72	67	7.2	76	62	20.3	40 - 140	30	
Benz(a)anthracene	ND	230	70	64	9.0	72	59	19.8	40 - 140	30	
Benzidine	ND	330	<10	38	NC	<10	<10	NC	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	69	63	9.1	72	58	21.5	40 - 140	30	
Benzo(b)fluoranthene	ND	160	68	61	10.9	70	57	20.5	40 - 140	30	
Benzo(ghi)perylene	ND	230	68	62	9.2	70	57	20.5	40 - 140	30	
Benzo(k)fluoranthene	ND	230	68	63	7.6	69	57	19.0	40 - 140	30	
Benzoic Acid	ND	670	92	84	9.1	75	66	12.8	30 - 130	30	
Benzyl butyl phthalate	ND	230	79	72	9.3	81	67	18.9	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	68	64	6.1	71	59	18.5	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	69	60	14.0	66	58	12.9	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	80	73	9.2	81	67	18.9	40 - 140	30	
Carbazole	ND	230	73	68	7.1	74	61	19.3	40 - 140	30	
Chrysene	ND	230	70	64	9.0	72	59	19.8	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	69	62	10.7	72	59	19.8	40 - 140	30	
Dibenzofuran	ND	230	68	63	7.6	70	58	18.8	40 - 140	30	
Diethyl phthalate	ND	230	72	65	10.2	73	62	16.3	40 - 140	30	
Dimethylphthalate	ND	230	72	66	8.7	73	61	17.9	40 - 140	30	
Di-n-butylphthalate	ND	670	79	73	7.9	82	67	20.1	40 - 140	30	
Di-n-octylphthalate	ND	230	85	75	12.5	85	70	19.4	40 - 140	30	
Fluoranthene	ND	230	72	68	5.7	74	61	19.3	40 - 140	30	
Fluorene	ND	230	70	64	9.0	71	59	18.5	40 - 140	30	
Hexachlorobenzene	ND	130	75	70	6.9	79	66	17.9	40 - 140	30	
Hexachlorobutadiene	ND	230	64	57	11.6	64	55	15.1	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	61	42	36.9	60	50	18.2	40 - 140	30	r
Hexachloroethane	ND	130	59	53	10.7	58	50	14.8	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	67	60	11.0	68	56	19.4	40 - 140	30	
Isophorone	ND	130	63	59	6.6	65	54	18.5	40 - 140	30	
Naphthalene	ND	230	62	57	8.4	63	54	15.4	40 - 140	30	
Nitrobenzene	ND	130	66	60	9.5	66	57	14.6	40 - 140	30	
N-Nitrosodimethylamine	ND	230	61	54	12.2	61	51	17.9	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	66	60	9.5	68	57	17.6	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	66	61	7.9	56	47	17.5	40 - 140	30	
Pentachloronitrobenzene	ND	230	76	71	6.8	81	67	18.9	40 - 140	30	
Pentachlorophenol	ND	230	80	73	9.2	73	63	14.7	30 - 130	30	
Phenanthrene	ND	130	72	67	7.2	76	61	21.9	40 - 140	30	
Phenol	ND	230	69	63	9.1	64	55	15.1	30 - 130	30	
Pyrene	ND	230	72	67	7.2	73	60	19.5	30 - 130	30	

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Pyridine	ND	230	51	44	14.7	45	40	11.8	40 - 140	30
% 2,4,6-Tribromophenol	86	%	80	76	5.1	77	62	21.6	30 - 130	30
% 2-Fluorobiphenyl	64	%	65	59	9.7	67	55	19.7	30 - 130	30
% 2-Fluorophenol	65	%	62	56	10.2	59	49	18.5	30 - 130	30
% Nitrobenzene-d5	66	%	63	58	8.3	65	54	18.5	30 - 130	30
% Phenol-d5	65	%	65	59	9.7	64	53	18.8	30 - 130	30
% Terphenyl-d14	65	%	63	57	10.0	65	52	22.2	30 - 130	30

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 784792 (ug/kg), QC Sample No: CT21525 (CT21525)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	58	63	8.3	59	56	5.2	40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	60	60	0.0	62	58	6.7	40 - 140	30	
1,2-Dichlorobenzene	ND	180	55	60	8.7	58	54	7.1	40 - 140	30	
1,2-Diphenylhydrazine	ND	230	65	64	1.6	64	62	3.2	40 - 140	30	
1,3-Dichlorobenzene	ND	230	53	56	5.5	56	53	5.5	40 - 140	30	
1,4-Dichlorobenzene	ND	230	52	56	7.4	55	52	5.6	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	51	59	14.5	54	50	7.7	40 - 140	30	
2,4,5-Trichlorophenol	ND	230	67	69	2.9	66	64	3.1	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	65	67	3.0	65	64	1.6	30 - 130	30	
2,4-Dichlorophenol	ND	130	65	74	12.9	65	62	4.7	30 - 130	30	
2,4-Dimethylphenol	ND	230	69	81	16.0	67	65	3.0	30 - 130	30	
2,4-Dinitrophenol	ND	230	73	78	6.6	71	70	1.4	30 - 130	30	
2,4-Dinitrotoluene	ND	130	75	75	0.0	72	71	1.4	30 - 130	30	
2,6-Dinitrotoluene	ND	130	75	76	1.3	71	71	0.0	40 - 140	30	
2-Chloronaphthalene	ND	230	63	63	0.0	64	62	3.2	40 - 140	30	
2-Chlorophenol	ND	230	57	74	26.0	61	56	8.5	30 - 130	30	
2-Methylnaphthalene	ND	230	62	67	7.8	63	59	6.6	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	71	93	26.8	72	68	5.7	40 - 140	30	
2-Nitroaniline	ND	330	89	92	3.3	83	85	2.4	40 - 140	30	
2-Nitrophenol	ND	230	63	70	10.5	62	59	5.0	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	63	85	29.7	63	60	4.9	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	81	78	3.8	36	54	40.0	40 - 140	30	m,r
3-Nitroaniline	ND	330	79	83	4.9	74	75	1.3	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	79	81	2.5	74	73	1.4	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	70	66	5.9	68	66	3.0	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	70	82	15.8	68	67	1.5	30 - 130	30	
4-Chloroaniline	ND	230	62	75	19.0	62	61	1.6	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	67	66	1.5	65	64	1.6	40 - 140	30	
4-Nitroaniline	ND	230	74	77	4.0	72	72	0.0	40 - 140	30	
4-Nitrophenol	ND	230	80	83	3.7	78	78	0.0	30 - 130	30	
Acenaphthene	ND	230	63	63	0.0	63	62	1.6	30 - 130	30	
Acenaphthylene	ND	130	56	57	1.8	58	57	1.7	40 - 140	30	
Acetophenone	ND	230	57	72	23.3	58	55	5.3	40 - 140	30	
Aniline	ND	330	51	65	24.1	33	29	12.9	40 - 140	30	m
Anthracene	ND	230	71	67	5.8	69	68	1.5	40 - 140	30	
Benz(a)anthracene	ND	230	68	65	4.5	66	64	3.1	40 - 140	30	
Benzidine	ND	330	<10	<10	NC	<10	<10	NC	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	67	64	4.6	65	63	3.1	40 - 140	30	
Benzo(b)fluoranthene	ND	160	67	62	7.8	65	63	3.1	40 - 140	30	
Benzo(ghi)perylene	ND	230	62	60	3.3	61	59	3.3	40 - 140	30	

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(k)fluoranthene	ND	230	65	62	4.7	63	62	1.6	40 - 140	30
Benzoic Acid	ND	670	94	110	15.7	79	76	3.9	30 - 130	30
Benzyl butyl phthalate	ND	230	66	68	3.0	73	71	2.8	40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	63	71	11.9	64	60	6.5	40 - 140	30
Bis(2-chloroethyl)ether	ND	130	58	70	18.8	62	57	8.4	40 - 140	30
Bis(2-ethylhexyl)phthalate	ND	230	72	71	1.4	75	73	2.7	40 - 140	30
Carbazole	ND	230	73	69	5.6	69	68	1.5	40 - 140	30
Chrysene	ND	230	68	65	4.5	66	65	1.5	40 - 140	30
Dibenz(a,h)anthracene	ND	130	66	62	6.3	64	63	1.6	40 - 140	30
Dibenzofuran	ND	230	64	65	1.6	64	63	1.6	40 - 140	30
Diethyl phthalate	ND	230	72	71	1.4	67	68	1.5	40 - 140	30
Dimethylphthalate	ND	230	68	70	2.9	65	64	1.6	40 - 140	30
Di-n-butylphthalate	ND	670	77	72	6.7	73	72	1.4	40 - 140	30
Di-n-octylphthalate	ND	230	70	72	2.8	76	75	1.3	40 - 140	30
Fluoranthene	ND	230	72	68	5.7	70	69	1.4	40 - 140	30
Fluorene	ND	230	67	67	0.0	66	65	1.5	40 - 140	30
Hexachlorobenzene	ND	130	70	65	7.4	67	65	3.0	40 - 140	30
Hexachlorobutadiene	ND	230	58	56	3.5	60	57	5.1	40 - 140	30
Hexachlorocyclopentadiene	ND	230	47	55	15.7	54	50	7.7	40 - 140	30
Hexachloroethane	ND	130	54	58	7.1	58	54	7.1	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	62	59	5.0	61	60	1.7	40 - 140	30
Isophorone	ND	130	59	68	14.2	61	57	6.8	40 - 140	30
Naphthalene	ND	230	59	62	5.0	61	58	5.0	40 - 140	30
Nitrobenzene	ND	130	58	74	24.2	61	57	6.8	40 - 140	30
N-Nitrosodimethylamine	ND	230	55	73	28.1	57	53	7.3	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	59	77	26.5	61	57	6.8	40 - 140	30
N-Nitrosodiphenylamine	ND	130	66	66	0.0	62	61	1.6	40 - 140	30
Pentachloronitrobenzene	ND	230	69	65	6.0	67	67	0.0	40 - 140	30
Pentachlorophenol	ND	230	74	75	1.3	75	71	5.5	30 - 130	30
Phenanthrene	ND	130	71	66	7.3	68	67	1.5	40 - 140	30
Phenol	ND	230	64	86	29.3	64	59	8.1	30 - 130	30
Pyrene	ND	230	72	67	7.2	69	67	2.9	30 - 130	30
Pyridine	ND	230	42	47	11.2	41	30	31.0	40 - 140	30
% 2,4,6-Tribromophenol	78	%	75	72	4.1	72	71	1.4	30 - 130	30
% 2-Fluorobiphenyl	62	%	58	58	0.0	60	57	5.1	30 - 130	30
% 2-Fluorophenol	61	%	55	72	26.8	57	52	9.2	30 - 130	30
% Nitrobenzene-d5	66	%	58	72	21.5	60	57	5.1	30 - 130	30
% Phenol-d5	63	%	57	77	29.9	58	54	7.1	30 - 130	30
% Terphenyl-d14	64	%	63	57	10.0	58	59	1.7	30 - 130	30

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 783404 (ug/L), QC Sample No: CT20374 (CT21526)

Semivolatiles (SIM) - Ground Water

2-Methylnaphthalene	ND	0.50	76	75	1.3				30 - 130	20
Acenaphthene	ND	0.50	75	79	5.2				30 - 130	20
Acenaphthylene	ND	0.50	39	74	61.9				30 - 130	20
Anthracene	ND	0.50	81	72	11.8				30 - 130	20
Benz(a)anthracene	ND	0.50	94	85	10.1				30 - 130	20
Benzo(a)pyrene	ND	0.50	86	84	2.4				30 - 130	20
Benzo(b)fluoranthene	ND	0.50	94	83	12.4				30 - 130	20
Benzo(ghi)perylene	ND	0.50	78	73	6.6				30 - 130	20

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(k)fluoranthene	ND	0.50	86	79	8.5				30 - 130	20
Chrysene	ND	0.50	81	74	9.0				30 - 130	20
Dibenz(a,h)anthracene	ND	0.50	90	81	10.5				30 - 130	20
Fluoranthene	ND	0.50	86	78	9.8				30 - 130	20
Fluorene	ND	0.50	81	87	7.1				30 - 130	20
Hexachlorobenzene	ND	0.50	75	81	7.7				30 - 130	20
Hexachlorobutadiene	ND	0.50	72	66	8.7				30 - 130	20
Hexachlorocyclopentadiene	ND	0.50	33	32	3.1				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.50	88	82	7.1				30 - 130	20
Naphthalene	ND	0.50	83	75	10.1				30 - 130	20
Nitrobenzene	ND	0.50	95	89	6.5				30 - 130	20
Pentachlorophenol	ND	0.50	74	74	0.0				30 - 130	20
Phenanthrene	ND	0.50	77	85	9.9				30 - 130	20
Pyrene	ND	0.50	82	78	5.0				30 - 130	20
Pyridine	ND	0.50	28	36	25.0				30 - 130	20
% 2,4,6-Tribromophenol	68	%	86	90	4.5				15 - 110	20
% 2-Fluorobiphenyl	63	%	66	69	4.4				30 - 130	20
% 2-Fluorophenol	53	%	66	50	27.6				15 - 110	20
% Nitrobenzene-d5	79	%	83	83	0.0				30 - 130	20
% Phenol-d5	60	%	52	61	15.9				15 - 110	20
% Terphenyl-d14	76	%	73	87	17.5				30 - 130	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 783677 (ug/L), QC Sample No: CT21408 (CT21526, CT21527)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	85	91	6.8				70 - 130	20
1,1,1-Trichloroethane	ND	1.0	82	83	1.2				70 - 130	20
1,1,2,2-Tetrachloroethane	ND	0.50	92	102	10.3				70 - 130	20
1,1,2-Trichloroethane	ND	1.0	89	102	13.6				70 - 130	20
1,1-Dichloroethane	ND	1.0	88	90	2.2				70 - 130	20
1,1-Dichloroethene	ND	1.0	83	83	0.0				70 - 130	20
1,1-Dichloropropene	ND	1.0	81	83	2.4				70 - 130	20
1,2,3-Trichlorobenzene	ND	1.0	88	103	15.7				70 - 130	20
1,2,3-Trichloropropane	ND	1.0	97	107	9.8				70 - 130	20
1,2,4-Trichlorobenzene	ND	1.0	97	108	10.7				70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0	93	94	1.1				70 - 130	20
1,2-Dibromo-3-chloropropane	ND	1.0	84	96	13.3				70 - 130	20
1,2-Dibromoethane	ND	1.0	88	97	9.7				70 - 130	20
1,2-Dichlorobenzene	ND	1.0	94	98	4.2				70 - 130	20
1,2-Dichloroethane	ND	1.0	91	99	8.4				70 - 130	20
1,2-Dichloropropane	ND	1.0	92	98	6.3				70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	92	93	1.1				70 - 130	20
1,3-Dichlorobenzene	ND	1.0	92	95	3.2				70 - 130	20
1,3-Dichloropropane	ND	1.0	92	101	9.3				70 - 130	20
1,4-Dichlorobenzene	ND	1.0	93	95	2.1				70 - 130	20
1,4-dioxane	ND	100	106	110	3.7				70 - 130	20
2,2-Dichloropropane	ND	1.0	79	83	4.9				70 - 130	20
2-Chlorotoluene	ND	1.0	94	95	1.1				70 - 130	20
2-Hexanone	ND	5.0	76	91	18.0				70 - 130	20
2-Isopropyltoluene	ND	1.0	93	95	2.1				70 - 130	20

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
4-Chlorotoluene	ND	1.0	93	95	2.1				70 - 130	20
4-Methyl-2-pentanone	ND	5.0	84	103	20.3				70 - 130	20
Acetone	ND	5.0	99	106	6.8				70 - 130	20
Acrylonitrile	ND	5.0	76	85	11.2				70 - 130	20
Benzene	ND	0.70	88	93	5.5				70 - 130	20
Bromobenzene	ND	1.0	94	97	3.1				70 - 130	20
Bromochloromethane	ND	1.0	84	92	9.1				70 - 130	20
Bromodichloromethane	ND	0.50	84	93	10.2				70 - 130	20
Bromoform	ND	1.0	70	80	13.3				70 - 130	20
Bromomethane	ND	1.0	97	99	2.0				70 - 130	20
Carbon Disulfide	ND	1.0	79	80	1.3				70 - 130	20
Carbon tetrachloride	ND	1.0	82	81	1.2				70 - 130	20
Chlorobenzene	ND	1.0	91	95	4.3				70 - 130	20
Chloroethane	ND	1.0	91	92	1.1				70 - 130	20
Chloroform	ND	1.0	91	95	4.3				70 - 130	20
Chloromethane	ND	1.0	100	102	2.0				70 - 130	20
cis-1,2-Dichloroethene	ND	1.0	86	90	4.5				70 - 130	20
cis-1,3-Dichloropropene	ND	0.40	86	95	9.9				70 - 130	20
Dibromochloromethane	ND	0.50	82	91	10.4				70 - 130	20
Dibromomethane	ND	1.0	89	100	11.6				70 - 130	20
Dichlorodifluoromethane	ND	1.0	77	77	0.0				70 - 130	20
Ethyl ether	ND	1.0	88	100	12.8				70 - 130	20
Ethyl tert-butyl ether	ND	1.0	82	93	12.6				70 - 130	20
Ethylbenzene	ND	1.0	90	92	2.2				70 - 130	20
Hexachlorobutadiene	ND	0.40	86	91	5.6				70 - 130	20
Isopropylbenzene	ND	1.0	94	95	1.1				70 - 130	20
m&p-Xylene	ND	1.0	89	92	3.3				70 - 130	20
Methyl ethyl ketone	ND	5.0	80	95	17.1				70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	80	93	15.0				70 - 130	20
Methylene chloride	ND	1.0	86	91	5.6				70 - 130	20
Naphthalene	ND	1.0	88	103	15.7				70 - 130	20
n-Butylbenzene	ND	1.0	91	95	4.3				70 - 130	20
n-Propylbenzene	ND	1.0	92	94	2.2				70 - 130	20
o-Xylene	ND	1.0	91	93	2.2				70 - 130	20
p-Isopropyltoluene	ND	1.0	89	92	3.3				70 - 130	20
sec-Butylbenzene	ND	1.0	89	91	2.2				70 - 130	20
Styrene	ND	1.0	92	96	4.3				70 - 130	20
tert-amyl methyl ether	ND	1.0	79	94	17.3				70 - 130	20
tert-Butylbenzene	ND	1.0	91	91	0.0				70 - 130	20
Tetrachloroethene	ND	1.0	86	89	3.4				70 - 130	20
Tetrahydrofuran (THF)	ND	2.5	88	98	10.8				70 - 130	20
Toluene	ND	1.0	90	93	3.3				70 - 130	20
trans-1,2-Dichloroethene	ND	1.0	85	87	2.3				70 - 130	20
trans-1,3-Dichloropropene	ND	0.40	83	95	13.5				70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	76	87	13.5				70 - 130	20
Trichloroethene	ND	1.0	89	92	3.3				70 - 130	20
Trichlorofluoromethane	ND	1.0	86	87	1.2				70 - 130	20
Trichlorotrifluoroethane	ND	1.0	79	80	1.3				70 - 130	20
Vinyl chloride	ND	1.0	89	88	1.1				70 - 130	20
% 1,2-dichlorobenzene-d4	88	%	93	96	3.2				70 - 130	20
% Bromofluorobenzene	95	%	90	93	3.3				70 - 130	20
% Dibromofluoromethane	94	%	88	90	2.2				70 - 130	20
% Toluene-d8	89	%	97	98	1.0				70 - 130	20

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Comment:										
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.										
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.										
QA/QC Batch 783593 (ug/kg), QC Sample No: CT21507 (CT21506, CT21507, CT21528)										
Volatiles - Soil (Low Level)										
1,1,1,2-Tetrachloroethane	ND	5.0	106	103	2.9	78	82	5.0	70 - 130	20
1,1,1-Trichloroethane	ND	5.0	113	111	1.8	89	92	3.3	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	3.0	115	113	1.8	95	96	1.0	70 - 130	20
1,1,2-Trichloroethane	ND	5.0	115	113	1.8	93	93	0.0	70 - 130	20
1,1-Dichloroethane	ND	5.0	110	110	0.0	88	90	2.2	70 - 130	20
1,1-Dichloroethene	ND	5.0	111	111	0.0	90	91	1.1	70 - 130	20
1,1-Dichloropropene	ND	5.0	115	114	0.9	93	93	0.0	70 - 130	20
1,2,3-Trichlorobenzene	ND	5.0	115	108	6.3	88	90	2.2	70 - 130	20
1,2,3-Trichloropropane	ND	5.0	117	104	11.8	91	96	5.3	70 - 130	20
1,2,4-Trichlorobenzene	ND	5.0	111	107	3.7	86	85	1.2	70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0	117	112	4.4	93	93	0.0	70 - 130	20
1,2-Dibromo-3-chloropropane	ND	5.0	106	105	0.9	79	83	4.9	70 - 130	20
1,2-Dibromoethane	ND	5.0	112	110	1.8	89	91	2.2	70 - 130	20
1,2-Dichlorobenzene	ND	5.0	111	109	1.8	88	89	1.1	70 - 130	20
1,2-Dichloroethane	ND	5.0	111	108	2.7	88	89	1.1	70 - 130	20
1,2-Dichloropropane	ND	5.0	111	110	0.9	89	89	0.0	70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	114	111	2.7	92	93	1.1	70 - 130	20
1,3-Dichlorobenzene	ND	5.0	114	110	3.6	90	91	1.1	70 - 130	20
1,3-Dichloropropane	ND	5.0	113	111	1.8	90	93	3.3	70 - 130	20
1,4-Dichlorobenzene	ND	5.0	109	106	2.8	87	87	0.0	70 - 130	20
1,4-dioxane	ND	100	94	98	4.2	98	92	6.3	70 - 130	20
2,2-Dichloropropane	ND	5.0	111	109	1.8	82	84	2.4	70 - 130	20
2-Chlorotoluene	ND	5.0	116	114	1.7	94	95	1.1	70 - 130	20
2-Hexanone	ND	25	88	85	3.5	71	72	1.4	70 - 130	20
2-Isopropyltoluene	ND	5.0	117	114	2.6	94	95	1.1	70 - 130	20
4-Chlorotoluene	ND	5.0	116	111	4.4	91	93	2.2	70 - 130	20
4-Methyl-2-pentanone	ND	25	97	94	3.1	78	78	0.0	70 - 130	20
Acetone	ND	10	99	95	4.1	81	81	0.0	70 - 130	20
Acrylonitrile	ND	5.0	102	97	5.0	80	81	1.2	70 - 130	20
Benzene	ND	1.0	112	110	1.8	90	90	0.0	70 - 130	20
Bromobenzene	ND	5.0	114	110	3.6	92	93	1.1	70 - 130	20
Bromochloromethane	ND	5.0	111	112	0.9	92	92	0.0	70 - 130	20
Bromodichloromethane	ND	5.0	111	109	1.8	85	87	2.3	70 - 130	20
Bromoform	ND	5.0	94	94	0.0	65	71	8.8	70 - 130	20
Bromomethane	ND	5.0	112	110	1.8	91	92	1.1	70 - 130	20
Carbon Disulfide	ND	5.0	113	113	0.0	89	92	3.3	70 - 130	20
Carbon tetrachloride	ND	5.0	103	101	2.0	75	80	6.5	70 - 130	20
Chlorobenzene	ND	5.0	108	106	1.9	87	89	2.3	70 - 130	20
Chloroethane	ND	5.0	122	120	1.7	96	100	4.1	70 - 130	20
Chloroform	ND	5.0	116	111	4.4	93	96	3.2	70 - 130	20
Chloromethane	ND	5.0	105	105	0.0	84	86	2.4	70 - 130	20
cis-1,2-Dichloroethene	ND	5.0	116	116	0.0	94	96	2.1	70 - 130	20
cis-1,3-Dichloropropene	ND	5.0	112	109	2.7	84	86	2.4	70 - 130	20
Dibromochloromethane	ND	3.0	105	105	0.0	79	83	4.9	70 - 130	20
Dibromomethane	ND	5.0	112	109	2.7	90	91	1.1	70 - 130	20
Dichlorodifluoromethane	ND	5.0	121	116	4.2	95	96	1.0	70 - 130	20

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Diethyl ether	ND	5.0	105	102	2.9	84	85	1.2	70 - 130	20
Ethyl tert-butyl ether	ND	5.0	106	104	1.9	83	86	3.6	70 - 130	20
Ethylbenzene	ND	1.0	110	108	1.8	89	90	1.1	70 - 130	20
Hexachlorobutadiene	ND	5.0	112	106	5.5	89	90	1.1	70 - 130	20
Isopropylbenzene	ND	1.0	115	114	0.9	95	96	1.0	70 - 130	20
m&p-Xylene	ND	2.0	107	104	2.8	86	88	2.3	70 - 130	20
Methyl ethyl ketone	ND	5.0	99	91	8.4	77	79	2.6	70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	107	103	3.8	84	87	3.5	70 - 130	20
Methylene chloride	ND	5.0	100	97	3.0	80	83	3.7	70 - 130	20
Naphthalene	ND	5.0	118	115	2.6	93	95	2.1	70 - 130	20
n-Butylbenzene	ND	1.0	121	114	6.0	96	96	0.0	70 - 130	20
n-Propylbenzene	ND	1.0	117	111	5.3	94	95	1.1	70 - 130	20
o-Xylene	ND	2.0	111	109	1.8	89	91	2.2	70 - 130	20
p-Isopropyltoluene	ND	1.0	118	112	5.2	93	94	1.1	70 - 130	20
sec-Butylbenzene	ND	1.0	118	113	4.3	95	96	1.0	70 - 130	20
Styrene	ND	5.0	110	107	2.8	90	90	0.0	70 - 130	20
tert-amyl methyl ether	ND	5.0	106	103	2.9	84	85	1.2	70 - 130	20
tert-Butylbenzene	ND	1.0	116	111	4.4	93	95	2.1	70 - 130	20
Tetrachloroethene	ND	5.0	109	105	3.7	88	87	1.1	70 - 130	20
Tetrahydrofuran (THF)	ND	5.0	96	92	4.3	77	79	2.6	70 - 130	20
Toluene	ND	1.0	112	111	0.9	90	91	1.1	70 - 130	20
trans-1,2-Dichloroethene	ND	5.0	110	108	1.8	88	90	2.2	70 - 130	20
trans-1,3-Dichloropropene	ND	5.0	108	106	1.9	81	84	3.6	70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	103	103	0.0	74	74	0.0	70 - 130	20
Trichloroethene	ND	5.0	106	104	1.9	85	85	0.0	70 - 130	20
Trichlorofluoromethane	ND	5.0	119	118	0.8	96	97	1.0	70 - 130	20
Trichlorotrifluoroethane	ND	5.0	111	107	3.7	93	92	1.1	70 - 130	20
Vinyl chloride	ND	5.0	109	108	0.9	87	88	1.1	70 - 130	20
% 1,2-dichlorobenzene-d4	100	%	99	100	1.0	100	101	1.0	70 - 130	20
% Bromofluorobenzene	99	%	101	102	1.0	100	102	2.0	70 - 130	20
% Dibromofluoromethane	98	%	96	97	1.0	98	100	2.0	70 - 130	20
% Toluene-d8	99	%	104	104	0.0	103	103	0.0	70 - 130	20

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 783593H (ug/kg), QC Sample No: CT21507 50X (CT21529 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	101	100	1.0	73	72	1.4	70 - 130	20
1,1,1-Trichloroethane	ND	250	105	106	0.9	85	80	6.1	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	250	108	111	2.7	91	89	2.2	70 - 130	20
1,1,2-Trichloroethane	ND	250	107	109	1.9	92	86	6.7	70 - 130	20
1,1-Dichloroethane	ND	250	103	106	2.9	88	81	8.3	70 - 130	20
1,1-Dichloroethene	ND	250	68	70	2.9	65	52	22.2	70 - 130	20
1,1-Dichloropropene	ND	250	109	113	3.6	93	86	7.8	70 - 130	20
1,2,3-Trichlorobenzene	ND	250	112	114	1.8	93	87	6.7	70 - 130	20
1,2,3-Trichloropropane	ND	250	109	108	0.9	86	85	1.2	70 - 130	20
1,2,4-Trichlorobenzene	ND	250	115	116	0.9	92	84	9.1	70 - 130	20
1,2,4-Trimethylbenzene	ND	250	113	116	2.6	93	87	6.7	70 - 130	20
1,2-Dibromo-3-chloropropane	ND	250	98	100	2.0	72	71	1.4	70 - 130	20
1,2-Dibromoethane	ND	250	104	108	3.8	87	83	4.7	70 - 130	20
1,2-Dichlorobenzene	ND	250	110	110	0.0	90	84	6.9	70 - 130	20
1,2-Dichloroethane	ND	250	104	104	0.0	89	82	8.2	70 - 130	20
1,2-Dichloropropane	ND	250	105	108	2.8	90	83	8.1	70 - 130	20

l,m,r

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,3,5-Trimethylbenzene	ND	250	112	114	1.8	92	86	6.7	70 - 130	20
1,3-Dichlorobenzene	ND	250	113	114	0.9	93	86	7.8	70 - 130	20
1,3-Dichloropropane	ND	250	107	110	2.8	91	86	5.6	70 - 130	20
1,4-Dichlorobenzene	ND	250	109	109	0.0	89	83	7.0	70 - 130	20
1,4-dioxane	ND	5000	91	94	3.2	80	76	5.1	70 - 130	20
2,2-Dichloropropane	ND	250	103	102	1.0	78	74	5.3	70 - 130	20
2-Chlorotoluene	ND	250	114	115	0.9	94	88	6.6	70 - 130	20
2-Hexanone	ND	1300	81	82	1.2	68	68	0.0	70 - 130	20 m
2-Isopropyltoluene	ND	250	113	116	2.6	94	89	5.5	70 - 130	20
4-Chlorotoluene	ND	250	114	114	0.0	94	88	6.6	70 - 130	20
4-Methyl-2-pentanone	ND	1300	90	92	2.2	74	73	1.4	70 - 130	20
Acetone	ND	500	67	69	2.9	61	54	12.2	70 - 130	20 l,m
Acrylonitrile	ND	250	92	96	4.3	79	79	0.0	70 - 130	20
Benzene	ND	250	107	110	2.8	90	84	6.9	70 - 130	20
Bromobenzene	ND	250	108	110	1.8	91	86	5.6	70 - 130	20
Bromochloromethane	ND	250	108	107	0.9	92	85	7.9	70 - 130	20
Bromodichloromethane	ND	250	103	106	2.9	81	77	5.1	70 - 130	20
Bromoform	ND	250	85	87	2.3	55	56	1.8	70 - 130	20 m
Bromomethane	ND	250	59	61	3.3	54	48	11.8	70 - 130	20 l,m
Carbon Disulfide	ND	250	70	72	2.8	65	53	20.3	70 - 130	20 m
Carbon tetrachloride	ND	250	93	99	6.3	66	64	3.1	70 - 130	20 m
Chlorobenzene	ND	250	106	107	0.9	88	83	5.8	70 - 130	20
Chloroethane	ND	250	16	19	17.1	40	34	16.2	70 - 130	20 l,m
Chloroform	ND	250	107	108	0.9	91	86	5.6	70 - 130	20
Chloromethane	ND	250	100	101	1.0	83	77	7.5	70 - 130	20
cis-1,2-Dichloroethene	ND	250	112	112	0.0	93	91	2.2	70 - 130	20
cis-1,3-Dichloropropene	ND	250	106	107	0.9	84	79	6.1	70 - 130	20
Dibromochloromethane	ND	150	98	100	2.0	69	68	1.5	70 - 130	20 m
Dibromomethane	ND	250	103	105	1.9	89	84	5.8	70 - 130	20
Dichlorodifluoromethane	ND	250	110	112	1.8	92	84	9.1	70 - 130	20
Diethyl ether	ND	250	49	50	2.0	47	39	18.6	70 - 130	20 l,m
Ethyl tert-butyl ether	ND	250	101	101	0.0	86	81	6.0	70 - 130	20
Ethylbenzene	ND	250	109	110	0.9	90	84	6.9	70 - 130	20
Hexachlorobutadiene	ND	250	113	117	3.5	89	86	3.4	70 - 130	20
Isopropylbenzene	ND	250	113	115	1.8	94	90	4.3	70 - 130	20
m&p-Xylene	ND	250	106	108	1.9	88	82	7.1	70 - 130	20
Methyl ethyl ketone	ND	250	90	91	1.1	75	74	1.3	70 - 130	20
Methyl t-butyl ether (MTBE)	ND	250	98	99	1.0	84	80	4.9	70 - 130	20
Methylene chloride	ND	250	87	89	2.3	77	70	9.5	70 - 130	20
Naphthalene	ND	250	111	112	0.9	91	88	3.4	70 - 130	20
n-Butylbenzene	ND	250	122	123	0.8	97	91	6.4	70 - 130	20
n-Propylbenzene	ND	250	114	116	1.7	94	88	6.6	70 - 130	20
o-Xylene	ND	250	109	111	1.8	91	85	6.8	70 - 130	20
p-Isopropyltoluene	ND	250	115	118	2.6	94	88	6.6	70 - 130	20
sec-Butylbenzene	ND	250	114	116	1.7	94	89	5.5	70 - 130	20
Styrene	ND	250	106	109	2.8	90	84	6.9	70 - 130	20
tert-amyl methyl ether	ND	250	101	104	2.9	86	81	6.0	70 - 130	20
tert-Butylbenzene	ND	250	112	114	1.8	92	87	5.6	70 - 130	20
Tetrachloroethene	ND	250	106	109	2.8	89	80	10.7	70 - 130	20
Tetrahydrofuran (THF)	ND	250	95	98	3.1	74	78	5.3	70 - 130	20
Toluene	ND	250	108	110	1.8	92	84	9.1	70 - 130	20
trans-1,2-Dichloroethene	ND	250	104	104	0.0	87	80	8.4	70 - 130	20
trans-1,3-Dichloropropene	ND	250	101	103	2.0	79	75	5.2	70 - 130	20

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
trans-1,4-dichloro-2-butene	ND	250	94	95	1.1	65	66	1.5	70 - 130	20	m
Trichloroethene	ND	250	102	102	0.0	87	80	8.4	70 - 130	20	
Trichlorofluoromethane	ND	250	49	50	2.0	50	40	22.2	70 - 130	20	I,m,r
Trichlorotrifluoroethane	ND	250	80	82	2.5	73	62	16.3	70 - 130	20	m
Vinyl chloride	ND	250	100	101	1.0	82	77	6.3	70 - 130	20	
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	101	101	0.0	70 - 130	20	
% Bromofluorobenzene	98	%	102	101	1.0	102	102	0.0	70 - 130	20	
% Dibromofluoromethane	94	%	92	96	4.3	100	94	6.2	70 - 130	20	
% Toluene-d8	99	%	103	103	0.0	104	102	1.9	70 - 130	20	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 783627 (ug/kg), QC Sample No: CT21515 (CT21508, CT21509, CT21510, CT21511, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21520, CT21521, CT21523, CT21524, CT21525)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	110	111	0.9	90			70 - 130	20	
1,1,1-Trichloroethane	ND	5.0	98	99	1.0	79			70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	3.0	96	98	2.1	76			70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	105	104	1.0	80			70 - 130	20	
1,1-Dichloroethane	ND	5.0	88	91	3.4	72			70 - 130	20	
1,1-Dichloroethene	ND	5.0	95	99	4.1	77			70 - 130	20	
1,1-Dichloropropene	ND	5.0	101	103	2.0	82			70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0	108	107	0.9	73			70 - 130	20	
1,2,3-Trichloropropane	ND	5.0	89	91	2.2	72			70 - 130	20	
1,2,4-Trichlorobenzene	ND	5.0	103	103	0.0	70			70 - 130	20	
1,2,4-Trimethylbenzene	ND	1.0	94	94	0.0	78			70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0	127	126	0.8	95			70 - 130	20	
1,2-Dibromoethane	ND	5.0	102	104	1.9	81			70 - 130	20	
1,2-Dichlorobenzene	ND	5.0	104	105	1.0	83			70 - 130	20	
1,2-Dichloroethane	ND	5.0	101	101	0.0	80			70 - 130	20	
1,2-Dichloropropane	ND	5.0	101	102	1.0	80			70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	96	97	1.0	82			70 - 130	20	
1,3-Dichlorobenzene	ND	5.0	98	99	1.0	80			70 - 130	20	
1,3-Dichloropropane	ND	5.0	93	93	0.0	73			70 - 130	20	
1,4-Dichlorobenzene	ND	5.0	106	105	0.9	83			70 - 130	20	
1,4-dioxane	ND	100	110	102	7.5	91			70 - 130	20	
2,2-Dichloropropane	ND	5.0	98	97	1.0	77			70 - 130	20	
2-Chlorotoluene	ND	5.0	99	99	0.0	84			70 - 130	20	
2-Hexanone	ND	25	98	103	5.0	80			70 - 130	20	
2-Isopropyltoluene	ND	5.0	102	104	1.9	85			70 - 130	20	
4-Chlorotoluene	ND	5.0	97	98	1.0	80			70 - 130	20	
4-Methyl-2-pentanone	ND	25	107	107	0.0	82			70 - 130	20	
Acetone	ND	10	87	89	2.3	65			70 - 130	20	m
Acrylonitrile	ND	5.0	92	96	4.3	71			70 - 130	20	
Benzene	ND	1.0	99	99	0.0	78			70 - 130	20	
Bromobenzene	ND	5.0	106	109	2.8	90			70 - 130	20	
Bromochloromethane	ND	5.0	94	93	1.1	75			70 - 130	20	
Bromodichloromethane	ND	5.0	102	104	1.9	82			70 - 130	20	
Bromoform	ND	5.0	115	116	0.9	91			70 - 130	20	
Bromomethane	ND	5.0	93	95	2.1	74			70 - 130	20	
Carbon Disulfide	ND	5.0	94	96	2.1	72			70 - 130	20	
Carbon tetrachloride	ND	5.0	101	105	3.9	82			70 - 130	20	
Chlorobenzene	ND	5.0	102	102	0.0	84			70 - 130	20	

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chloroethane	ND	5.0	96	101	5.1	74			70 - 130	20
Chloroform	ND	5.0	87	88	1.1	72			70 - 130	20
Chloromethane	ND	5.0	102	105	2.9	79			70 - 130	20
cis-1,2-Dichloroethene	ND	5.0	93	93	0.0	73			70 - 130	20
cis-1,3-Dichloropropene	ND	5.0	105	106	0.9	81			70 - 130	20
Dibromochloromethane	ND	3.0	111	112	0.9	87			70 - 130	20
Dibromomethane	ND	5.0	102	106	3.8	81			70 - 130	20
Dichlorodifluoromethane	ND	5.0	101	104	2.9	80			70 - 130	20
Diethyl ether	ND	5.0	86	88	2.3	67			70 - 130	20 m
Ethyl tert-butyl ether	ND	5.0	90	91	1.1	73			70 - 130	20
Ethylbenzene	ND	1.0	99	99	0.0	80			70 - 130	20
Hexachlorobutadiene	ND	5.0	115	112	2.6	89			70 - 130	20
Isopropylbenzene	ND	1.0	102	103	1.0	86			70 - 130	20
m&p-Xylene	ND	2.0	98	98	0.0	80			70 - 130	20
Methyl ethyl ketone	ND	5.0	93	93	0.0	70			70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	92	94	2.2	73			70 - 130	20
Methylene chloride	ND	5.0	87	91	4.5	69			70 - 130	20 m
Naphthalene	ND	5.0	104	105	1.0	74			70 - 130	20
n-Butylbenzene	ND	1.0	98	98	0.0	79			70 - 130	20
n-Propylbenzene	ND	1.0	98	100	2.0	86			70 - 130	20
o-Xylene	ND	2.0	99	98	1.0	80			70 - 130	20
p-Isopropyltoluene	ND	1.0	101	100	1.0	84			70 - 130	20
sec-Butylbenzene	ND	1.0	97	96	1.0	81			70 - 130	20
Styrene	ND	5.0	96	96	0.0	77			70 - 130	20
tert-amyl methyl ether	ND	5.0	102	101	1.0	79			70 - 130	20
tert-Butylbenzene	ND	1.0	100	101	1.0	85			70 - 130	20
Tetrachloroethene	ND	5.0	117	116	0.9	96			70 - 130	20
Tetrahydrofuran (THF)	ND	5.0	92	96	4.3	73			70 - 130	20
Toluene	ND	1.0	104	106	1.9	82			70 - 130	20
trans-1,2-Dichloroethene	ND	5.0	99	100	1.0	76			70 - 130	20
trans-1,3-Dichloropropene	ND	5.0	107	108	0.9	80			70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	113	116	2.6	81			70 - 130	20
Trichloroethene	ND	5.0	108	108	0.0	87			70 - 130	20
Trichlorofluoromethane	ND	5.0	106	108	1.9	89			70 - 130	20
Trichlorotrifluoroethane	ND	5.0	105	106	0.9	88			70 - 130	20
Vinyl chloride	ND	5.0	94	98	4.2	73			70 - 130	20
% 1,2-dichlorobenzene-d4	95	%	100	103	3.0	100			70 - 130	20
% Bromofluorobenzene	92	%	97	95	2.1	92			70 - 130	20
% Dibromofluoromethane	105	%	100	101	1.0	105			70 - 130	20
% Toluene-d8	88	%	100	100	0.0	98			70 - 130	20

Comment:

The MSD is not reported for this LL soil batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 783923 (ug/kg), QC Sample No: CT23814 (CT21519, CT21522)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	86	96	11.0	93	96	3.2	70 - 130	20
1,1,1-Trichloroethane	ND	5.0	84	93	10.2	88	90	2.2	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	3.0	94	102	8.2	105	102	2.9	70 - 130	20
1,1,2-Trichloroethane	ND	5.0	90	97	7.5	97	97	0.0	70 - 130	20
1,1-Dichloroethane	ND	5.0	98	109	10.6	104	106	1.9	70 - 130	20
1,1-Dichloroethene	ND	5.0	84	92	9.1	76	79	3.9	70 - 130	20

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1-Dichloropropene	ND	5.0	88	96	8.7	72	79	9.3	70 - 130	20
1,2,3-Trichlorobenzene	ND	5.0	94	101	7.2	92	91	1.1	70 - 130	20
1,2,3-Trichloropropane	ND	5.0	85	92	7.9	101	86	16.0	70 - 130	20
1,2,4-Trichlorobenzene	ND	5.0	95	101	6.1	93	90	3.3	70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0	95	102	7.1	88	89	1.1	70 - 130	20
1,2-Dibromo-3-chloropropane	ND	5.0	94	100	6.2	92	89	3.3	70 - 130	20
1,2-Dibromoethane	ND	5.0	92	101	9.3	98	100	2.0	70 - 130	20
1,2-Dichlorobenzene	ND	5.0	90	97	7.5	92	92	0.0	70 - 130	20
1,2-Dichloroethane	ND	5.0	82	90	9.3	88	89	1.1	70 - 130	20
1,2-Dichloropropane	ND	5.0	93	102	9.2	98	100	2.0	70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	94	102	8.2	94	95	1.1	70 - 130	20
1,3-Dichlorobenzene	ND	5.0	91	97	6.4	92	92	0.0	70 - 130	20
1,3-Dichloropropane	ND	5.0	93	102	9.2	100	101	1.0	70 - 130	20
1,4-Dichlorobenzene	ND	5.0	90	97	7.5	91	91	0.0	70 - 130	20
1,4-dioxane	ND	100	88	93	5.5	90	92	2.2	70 - 130	20
2,2-Dichloropropane	ND	5.0	93	104	11.2	91	95	4.3	70 - 130	20
2-Chlorotoluene	ND	5.0	91	99	8.4	91	92	1.1	70 - 130	20
2-Hexanone	ND	25	97	104	7.0	52	53	1.9	70 - 130	20 m
2-Isopropyltoluene	ND	5.0	95	102	7.1	95	96	1.0	70 - 130	20
4-Chlorotoluene	ND	5.0	91	99	8.4	88	90	2.2	70 - 130	20
4-Methyl-2-pentanone	ND	25	97	104	7.0	74	72	2.7	70 - 130	20
Acetone	ND	10	82	89	8.2	71	69	2.9	70 - 130	20 m
Acrylonitrile	ND	5.0	100	114	13.1	96	95	1.0	70 - 130	20
Benzene	ND	1.0	88	97	9.7	87	91	4.5	70 - 130	20
Bromobenzene	ND	5.0	89	97	8.6	91	92	1.1	70 - 130	20
Bromochloromethane	ND	5.0	84	94	11.2	91	93	2.2	70 - 130	20
Bromodichloromethane	ND	5.0	84	94	11.2	91	94	3.2	70 - 130	20
Bromoform	ND	5.0	81	91	11.6	87	88	1.1	70 - 130	20
Bromomethane	ND	5.0	81	91	11.6	79	81	2.5	70 - 130	20
Carbon Disulfide	ND	5.0	85	95	11.1	71	75	5.5	70 - 130	20
Carbon tetrachloride	ND	5.0	80	87	8.4	80	85	6.1	70 - 130	20
Chlorobenzene	ND	5.0	90	98	8.5	90	92	2.2	70 - 130	20
Chloroethane	ND	5.0	83	93	11.4	85	87	2.3	70 - 130	20
Chloroform	ND	5.0	86	94	8.9	91	93	2.2	70 - 130	20
Chloromethane	ND	5.0	92	101	9.3	89	91	2.2	70 - 130	20
cis-1,2-Dichloroethene	ND	5.0	88	97	9.7	93	94	1.1	70 - 130	20
cis-1,3-Dichloropropene	ND	5.0	94	103	9.1	93	97	4.2	70 - 130	20
Dibromochloromethane	ND	3.0	85	94	10.1	92	96	4.3	70 - 130	20
Dibromomethane	ND	5.0	87	94	7.7	95	95	0.0	70 - 130	20
Dichlorodifluoromethane	ND	5.0	80	87	8.4	72	73	1.4	70 - 130	20
Diethyl ether	ND	5.0	83	93	11.4	91	92	1.1	70 - 130	20
Ethyl tert-butyl ether	ND	5.0	104	116	10.9	114	115	0.9	70 - 130	20
Ethylbenzene	ND	1.0	92	98	6.3	83	87	4.7	70 - 130	20
Hexachlorobutadiene	ND	5.0	91	100	9.4	79	83	4.9	70 - 130	20
Isopropylbenzene	ND	1.0	94	101	7.2	90	91	1.1	70 - 130	20
m&p-Xylene	ND	2.0	91	98	7.4	85	88	3.5	70 - 130	20
Methyl ethyl ketone	ND	5.0	88	95	7.7	65	65	0.0	70 - 130	20 m
Methyl t-butyl ether (MTBE)	ND	1.0	91	100	9.4	99	99	0.0	70 - 130	20
Methylene chloride	ND	5.0	82	91	10.4	89	88	1.1	70 - 130	20
Naphthalene	ND	5.0	99	107	7.8	89	89	0.0	70 - 130	20
n-Butylbenzene	ND	1.0	98	105	6.9	69	74	7.0	70 - 130	20 m
n-Propylbenzene	ND	1.0	93	101	8.2	82	85	3.6	70 - 130	20
o-Xylene	ND	2.0	93	101	8.2	93	95	2.1	70 - 130	20

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
p-Isopropyltoluene	ND	1.0	95	103	8.1	71	76	6.8	70 - 130	20
sec-Butylbenzene	ND	1.0	95	102	7.1	87	90	3.4	70 - 130	20
Styrene	ND	5.0	92	101	9.3	87	90	3.4	70 - 130	20
tert-amyl methyl ether	ND	5.0	103	112	8.4	110	110	0.0	70 - 130	20
tert-Butylbenzene	ND	1.0	92	100	8.3	90	92	2.2	70 - 130	20
Tetrachloroethene	ND	5.0	85	92	7.9	83	84	1.2	70 - 130	20
Tetrahydrofuran (THF)	ND	5.0	91	98	7.4	91	89	2.2	70 - 130	20
Toluene	ND	1.0	89	97	8.6	82	87	5.9	70 - 130	20
trans-1,2-Dichloroethene	ND	5.0	86	94	8.9	87	86	1.2	70 - 130	20
trans-1,3-Dichloropropene	ND	5.0	96	106	9.9	98	101	3.0	70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	114	125	9.2	98	106	7.8	70 - 130	20
Trichloroethene	ND	5.0	87	95	8.8	86	88	2.3	70 - 130	20
Trichlorofluoromethane	ND	5.0	80	90	11.8	81	83	2.4	70 - 130	20
Trichlorotrifluoroethane	ND	5.0	84	92	9.1	82	84	2.4	70 - 130	20
Vinyl chloride	ND	5.0	80	100	22.2	85	87	2.3	70 - 130	20
% 1,2-dichlorobenzene-d4	99	%	100	100	0.0	101	100	1.0	70 - 130	20
% Bromofluorobenzene	97	%	100	100	0.0	100	101	1.0	70 - 130	20
% Dibromofluoromethane	96	%	97	99	2.0	100	99	1.0	70 - 130	20
% Toluene-d8	98	%	102	102	0.0	101	101	0.0	70 - 130	20

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 783923H (ug/kg), QC Sample No: CT23814 50X (CT21519 (50X))

Volatiles - Soil (High Level)

1,2,3-Trichlorobenzene	ND	250	108	109	0.9	106	107	0.9	70 - 130	20
1,2,3-Trichloropropane	ND	250	102	102	0.0	99	102	3.0	70 - 130	20
1,2,4-Trichlorobenzene	ND	250	113	111	1.8	111	110	0.9	70 - 130	20
1,2,4-Trimethylbenzene	ND	250	103	104	1.0	104	104	0.0	70 - 130	20
1,2-Dichlorobenzene	ND	250	103	102	1.0	102	102	0.0	70 - 130	20
1,3,5-Trimethylbenzene	ND	250	101	102	1.0	102	101	1.0	70 - 130	20
1,3-Dichlorobenzene	ND	250	101	101	0.0	102	102	0.0	70 - 130	20
1,4-Dichlorobenzene	ND	250	102	101	1.0	102	102	0.0	70 - 130	20
2-Chlorotoluene	ND	250	99	100	1.0	101	101	0.0	70 - 130	20
2-Isopropyltoluene	ND	250	102	103	1.0	103	102	1.0	70 - 130	20
4-Chlorotoluene	ND	250	101	102	1.0	103	104	1.0	70 - 130	20
Bromobenzene	ND	250	99	99	0.0	99	101	2.0	70 - 130	20
Hexachlorobutadiene	ND	250	107	107	0.0	105	104	1.0	70 - 130	20
Isopropylbenzene	ND	250	99	100	1.0	99	98	1.0	70 - 130	20
Naphthalene	ND	250	106	107	0.9	102	108	5.7	70 - 130	20
n-Butylbenzene	ND	250	109	108	0.9	108	107	0.9	70 - 130	20
n-Propylbenzene	ND	250	100	102	2.0	100	99	1.0	70 - 130	20
p-Isopropyltoluene	ND	250	103	103	0.0	103	102	1.0	70 - 130	20
sec-Butylbenzene	ND	250	100	102	2.0	101	101	0.0	70 - 130	20
tert-Butylbenzene	ND	250	97	99	2.0	98	98	0.0	70 - 130	20
trans-1,4-dichloro-2-butene	ND	250	108	105	2.8	99	109	9.6	70 - 130	20
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	101	99	2.0	70 - 130	20
% Bromofluorobenzene	98	%	102	101	1.0	102	104	1.9	70 - 130	20
% Dibromofluoromethane	97	%	96	97	1.0	96	97	1.0	70 - 130	20
% Toluene-d8	98	%	101	101	0.0	100	100	0.0	70 - 130	20

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	%	%
		RL							Rec Limits	RPD Limits
QA/QC Batch 784526 (ug/kg), QC Sample No: CT25363 (CT21512)										
<u>Volatiles - Soil (Low Level)</u>										
1,1,1,2-Tetrachloroethane	ND	5.0	99	102	3.0	95	98	3.1	70 - 130	20
1,1,1-Trichloroethane	ND	5.0	106	113	6.4	102	108	5.7	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	3.0	97	100	3.0	100	105	4.9	70 - 130	20
1,1,2-Trichloroethane	ND	5.0	102	106	3.8	99	102	3.0	70 - 130	20
1,1-Dichloroethane	ND	5.0	103	108	4.7	102	106	3.8	70 - 130	20
1,1-Dichloroethene	ND	5.0	108	113	4.5	104	108	3.8	70 - 130	20
1,1-Dichloropropene	ND	5.0	104	108	3.8	98	102	4.0	70 - 130	20
1,2,3-Trichlorobenzene	ND	5.0	100	98	2.0	67	67	0.0	70 - 130	20
1,2,3-Trichloropropane	ND	5.0	102	106	3.8	100	96	4.1	70 - 130	20
1,2,4-Trichlorobenzene	ND	5.0	96	95	1.0	69	71	2.9	70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0	98	99	1.0	92	95	3.2	70 - 130	20
1,2-Dibromo-3-chloropropane	ND	5.0	107	111	3.7	92	102	10.3	70 - 130	20
1,2-Dibromoethane	ND	5.0	99	103	4.0	96	98	2.1	70 - 130	20
1,2-Dichlorobenzene	ND	5.0	103	103	0.0	91	94	3.2	70 - 130	20
1,2-Dichloroethane	ND	5.0	106	109	2.8	104	107	2.8	70 - 130	20
1,2-Dichloropropane	ND	5.0	104	106	1.9	100	104	3.9	70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	99	101	2.0	94	97	3.1	70 - 130	20
1,3-Dichlorobenzene	ND	5.0	98	98	0.0	88	91	3.4	70 - 130	20
1,3-Dichloropropane	ND	5.0	99	101	2.0	97	98	1.0	70 - 130	20
1,4-Dichlorobenzene	ND	5.0	102	102	0.0	90	93	3.3	70 - 130	20
1,4-dioxane	ND	100	108	97	10.7	94	95	1.1	70 - 130	20
2,2-Dichloropropane	ND	5.0	108	115	6.3	101	104	2.9	70 - 130	20
2-Chlorotoluene	ND	5.0	100	102	2.0	94	98	4.2	70 - 130	20
2-Hexanone	ND	25	91	95	4.3	70	75	6.9	70 - 130	20
2-Isopropyltoluene	ND	5.0	104	107	2.8	97	98	1.0	70 - 130	20
4-Chlorotoluene	ND	5.0	100	101	1.0	94	97	3.1	70 - 130	20
4-Methyl-2-pentanone	ND	25	101	107	5.8	88	94	6.6	70 - 130	20
Acetone	ND	10	102	113	10.2	82	87	5.9	70 - 130	20
Acrylonitrile	ND	5.0	100	106	5.8	80	84	4.9	70 - 130	20
Benzene	ND	1.0	101	104	2.9	96	99	3.1	70 - 130	20
Bromobenzene	ND	5.0	102	104	1.9	99	102	3.0	70 - 130	20
Bromochloromethane	ND	5.0	100	106	5.8	100	104	3.9	70 - 130	20
Bromodichloromethane	ND	5.0	103	106	2.9	99	103	4.0	70 - 130	20
Bromoform	ND	5.0	97	101	4.0	88	91	3.4	70 - 130	20
Bromomethane	ND	5.0	102	110	7.5	96	96	0.0	70 - 130	20
Carbon Disulfide	ND	5.0	105	110	4.7	99	99	0.0	70 - 130	20
Carbon tetrachloride	ND	5.0	108	114	5.4	104	108	3.8	70 - 130	20
Chlorobenzene	ND	5.0	102	104	1.9	95	97	2.1	70 - 130	20
Chloroethane	ND	5.0	109	111	1.8	109	111	1.8	70 - 130	20
Chloroform	ND	5.0	100	105	4.9	99	102	3.0	70 - 130	20
Chloromethane	ND	5.0	108	113	4.5	102	105	2.9	70 - 130	20
cis-1,2-Dichloroethene	ND	5.0	104	108	3.8	101	104	2.9	70 - 130	20
cis-1,3-Dichloropropene	ND	5.0	106	110	3.7	99	103	4.0	70 - 130	20
Dibromochloromethane	ND	3.0	102	104	1.9	98	101	3.0	70 - 130	20
Dibromomethane	ND	5.0	105	110	4.7	102	106	3.8	70 - 130	20
Dichlorodifluoromethane	ND	5.0	120	123	2.5	116	115	0.9	70 - 130	20
Diethyl ether	ND	5.0	102	106	3.8	106	108	1.9	70 - 130	20
Ethyl tert-butyl ether	ND	5.0	101	106	4.8	107	109	1.9	70 - 130	20
Ethylbenzene	ND	1.0	99	100	1.0	92	93	1.1	70 - 130	20
Hexachlorobutadiene	ND	5.0	105	105	0.0	64	64	0.0	70 - 130	20

QA/QC Data

SDG I.D.: GCT21506

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Isopropylbenzene	ND	1.0	103	105	1.9	100	102	2.0	70 - 130	20
m&p-Xylene	ND	2.0	97	98	1.0	90	91	1.1	70 - 130	20
Methyl ethyl ketone	ND	5.0	92	104	12.2	77	86	11.0	70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	104	111	6.5	92	104	12.2	70 - 130	20
Methylene chloride	ND	5.0	94	99	5.2	111	111	0.0	70 - 130	20
Naphthalene	ND	5.0	101	102	1.0	73	75	2.7	70 - 130	20
n-Butylbenzene	ND	1.0	103	103	0.0	86	88	2.3	70 - 130	20
n-Propylbenzene	ND	1.0	101	104	2.9	95	98	3.1	70 - 130	20
o-Xylene	ND	2.0	100	101	1.0	94	96	2.1	70 - 130	20
p-Isopropyltoluene	ND	1.0	102	103	1.0	93	92	1.1	70 - 130	20
sec-Butylbenzene	ND	1.0	102	104	1.9	90	93	3.3	70 - 130	20
Styrene	ND	5.0	95	96	1.0	83	83	0.0	70 - 130	20
tert-amyl methyl ether	ND	5.0	102	104	1.9	103	106	2.9	70 - 130	20
tert-Butylbenzene	ND	1.0	103	105	1.9	97	100	3.0	70 - 130	20
Tetrachloroethene	ND	5.0	104	108	3.8	94	97	3.1	70 - 130	20
Tetrahydrofuran (THF)	ND	5.0	96	104	8.0	87	94	7.7	70 - 130	20
Toluene	ND	1.0	103	106	2.9	97	100	3.0	70 - 130	20
trans-1,2-Dichloroethene	ND	5.0	109	114	4.5	103	105	1.9	70 - 130	20
trans-1,3-Dichloropropene	ND	5.0	109	109	0.0	100	103	3.0	70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	104	107	2.8	91	97	6.4	70 - 130	20
Trichloroethene	ND	5.0	108	111	2.7	97	101	4.0	70 - 130	20
Trichlorofluoromethane	ND	5.0	113	118	4.3	108	110	1.8	70 - 130	20
Trichlorotrifluoroethane	ND	5.0	108	112	3.6	102	102	0.0	70 - 130	20
Vinyl chloride	ND	5.0	112	118	5.2	107	112	4.6	70 - 130	20
% 1,2-dichlorobenzene-d4	95	%	102	103	1.0	100	101	1.0	70 - 130	20
% Bromofluorobenzene	100	%	100	100	0.0	100	99	1.0	70 - 130	20
% Dibromofluoromethane	102	%	96	102	6.1	98	101	3.0	70 - 130	20
% Toluene-d8	90	%	101	102	1.0	100	102	2.0	70 - 130	20

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference
- (ISO) - Isotope Dilution



Phyllis Shiller, Laboratory Director

May 22, 2025

Thursday, May 22, 2025

Criteria: CT: GAM, GWP, RC, SWP

State: CT

Sample Criteria Exceedances Report

GCT21506 - FO-NEWHAVEN

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CT21506	SPLP-NI	SPLP Nickel	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.212	0.010	0.1	0.1	mg/L
CT21508	SPLP-PB	SPLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.021	0.010	0.015	0.015	mg/L
CT21510	SPLP-PB	SPLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.041	0.010	0.015	0.015	mg/L
CT21511	SPLP-PB	SPLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.061	0.010	0.015	0.015	mg/L
CT21513	SPLP-PB	SPLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.017	0.010	0.015	0.015	mg/L
CT21514	SPLP-PB	SPLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.022	0.010	0.015	0.015	mg/L
CT21517	SPLP-PB	SPLP Lead	CT / RSR GA (mg/l) TCLP / Inorganic/PCB	0.076	0.010	0.015	0.015	mg/L
CT21526	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CT21526	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CT21526	\$RCPADD-WM	1,4-Dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/L
CT21526	AS-WM	Arsenic	CT / RSR SWPC (ug/l) / Inorganics	0.028	0.004	0.004	0.004	mg/L
CT21526	BA-WM	Barium	CT / RSR GWPC (ug/l) / Inorganics	1.91	0.002	1	1	mg/L
CT21526	CD-WM	Cadmium	CT / RSR GWPC (ug/l) / Inorganics	0.006	0.001	0.005	0.005	mg/L
CT21526	CR-WM	Chromium	CT / RSR GWPC (ug/l) / Inorganics	0.426	0.001	0.05	0.05	mg/L
CT21526	CU-WM	Copper	CT / RSR SWPC (ug/l) / Inorganics	0.184	0.005	0.048	0.048	mg/L
CT21526	NI-WM	Nickel	CT / RSR GWPC (ug/l) / Inorganics	0.106	0.001	0.1	0.1	mg/L
CT21526	PB-WM	Lead	CT / RSR GWPC (ug/l) / Inorganics	0.030	0.001	0.015	0.015	mg/L
CT21526	PB-WM	Lead	CT / RSR SWPC (ug/l) / Inorganics	0.030	0.001	0.013	0.013	mg/L
CT21526	ZN-WM	Zinc	CT / RSR SWPC (ug/l) / Inorganics	0.191	0.004	0.123	0.123	mg/L
CT21527	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CT21527	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CT21527	\$RCPADD-WM	1,4-Dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Bureau of Water Protection and Land Reuse
Remediation Division

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name Phoenix Environmental Labs, Inc.	Client Name Fuss & O'Neill, Inc.
Project Location DOT SOUTHTON REST AREA	Project No.
Sampling Date(s) 5/6/2025	Laboratory Sample ID(s): CT21506-CT21529

LIST RCP METHODS USED (e.g., 8260,8270, etc.) 1311/1312, 6010, 7470/7471, 8081, 8082, 8151, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method-specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (see respective RCPs)	☐ Yes ☐ No ☒ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature ($\leq 6^{\circ}\text{C}$)? <i>If samples were received by the laboratory on the same day of collection and were stored and transported to the laboratory on ice, cooler temperatures above 6°C are acceptable.</i>	☒ Yes ☐ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: Herbicide Narration, SVOA Narration, SVOASIM Narration, VOA Narration.	☐ Yes ☒ No
5	Were reporting limits / limits of quantitation specified or referenced on the chain-of-custody?	☒ Yes ☐ No
5a	Were these reporting limits / limits of quantitation met?	☐ Yes ☒ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set for applicable RCPs?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered, and all questions must be answered.

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.

Authorized Signature:

Position: Laboratory Director

Printed Name:

Phyllis Shiller

Date: Thursday, May 22, 2025

Name of Laboratory

Phoenix Environmental Laboratory, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 22, 2025

SDG I.D.: GCT21506

SDG Comments

CT21526 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Thallium, Vanadium.

Volatile 8260 analysis:

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, these compounds are analyzed by GC/ECD to achieve this criteria.

Volatile 8260 analysis:

1,4-Dioxane does not meet the GWP. This compound is analyzed by method 522 or 8270SIM to achieve this criteria.

The regulatory hold time for Filtration is 24 hours. Filtration was performed in the laboratory and may be considered outside of hold-time.

Cyanide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 05/14/25-1 Jason White, Greg Danielewski, Chemist 05/14/25

CT21506 , CT21507 , CT21508 , CT21509 , CT21510 , CT21511 , CT21512 , CT21513 , CT21514 , CT21515 , CT21516 , CT21517 , CT21518 , CT21519 , CT21520 , CT21521 , CT21522 , CT21523 , CT21524 , CT21525

The samples were distilled in accordance with the method.

The initial calibration met criteria.

The calibration check standards (ICV,CCV) met criteria.

The initial and continuing calibration blanks (ICB,CCB) met criteria.

The method blank, laboratory control sample (LCS), and matrix spike (MS) were distilled with the samples.

QC (Batch Specific):

Batch 784134 (CT16387)

CT21506, CT21507, CT21508, CT21509, CT21510, CT21511

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional: MS acceptance range is 75-125%.

Batch 784318 (CT21512)

CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524, CT21525

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional: MS acceptance range is 75-125%.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID11 05/17/25-1 Jeff Bucko, Chemist 05/17/25

CT21520 (1X), CT21521 (1X), CT21522 (1X), CT21523 (1X), CT21524 (1X), CT21525 (1X)

The initial calibration (ETPH428I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (517A004_1) and contained the following outliers: None.



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RCP Certification Report

May 22, 2025

SDG I.D.: GCT21506

ETPH Narration

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID21 05/17/25-1

Jeff Bucko, Chemist 05/17/25

CT21506 (1X), CT21507 (1X), CT21508 (1X), CT21509 (1X), CT21510 (1X), CT21511 (1X), CT21512 (1X), CT21513 (1X), CT21514 (1X), CT21515 (1X), CT21516 (1X), CT21517 (1X), CT21518 (1X), CT21519 (1X)

The initial calibration (ETPH408I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (517A004_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 05/12/25-1

Jeff Bucko, Chemist 05/12/25

CT21526 (1X)

The initial calibration (ETPH507I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (512A005_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 783810 (CT21143)

CT21526

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 784769 (CT21458)

CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 784791 (CT21755)

CT21520, CT21521, CT21522, CT21523, CT21524, CT21525

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Herbicide Narration



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RCP Certification Report

May 22, 2025

SDG I.D.: GCT21506

Herbicide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 783987 (Samples: CT21520, CT21521, CT21522, CT21523, CT21524, CT21525): ----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (2,4-DB)

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% DCAA (Surrogate Rec) (Confirmation))

Instrument:

AU-ECD12 05/14/25-1

Jeff Bucko, Chemist 05/14/25

CT21526 (10X)

The initial calibration (HRB417AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (HRB417BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CT21526

Preceding CC 514B015 - None.

Succeeding CC 514B027 - 2,4,5-T (11) 24%H (20%), Dalapon (1) 23%H (20%)

AU-ECD2 05/12/25-1

Jeff Bucko, Chemist 05/12/25

CT21506 (10X), CT21507 (10X), CT21508 (10X), CT21509 (10X), CT21510 (10X), CT21511 (10X), CT21512 (10X), CT21513 (10X), CT21514 (10X), CT21515 (10X), CT21516 (10X), CT21517 (10X), CT21518 (10X), CT21519 (10X), CT21520 (10X), CT21521 (10X), CT21522 (10X), CT21523 (10X), CT21524 (10X), CT21525 (10X)

The initial calibration (HRB306AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (HRB306BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512

Preceding CC 512A039 - None.

Succeeding CC 512A051 - 2,4-D (8) -21%L (20%)

Samples: CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519

Preceding CC 512A051 - 2,4-D (8) -21%L (20%)

Succeeding CC 512A063 - 2,4-DB (12) -36%L (20%)

Samples: CT21520, CT21521, CT21522, CT21523, CT21524, CT21525

Preceding CC 512A074 - Dalapon (1) 23%H (20%), Dinoseb 37%H (20%)

Succeeding CC 512A086 - Dinoseb 50%H (20%)

QC (Batch Specific):

Batch 783669 (CT21333)

CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

Batch 783884 (CT21526)

CT21526



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Herbicide Narration

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QC (Site Specific):

Batch 783987 (CT21520)

CT21520, CT21521, CT21522, CT21523, CT21524, CT21525

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: % DCAA (Surrogate Rec) (Confirmation)(38.0%), 2,4-DB(33.0%)
All MS recoveries were within 30 - 150 with the following exceptions: None.
All MSD recoveries were within 30 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
8151 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

PSA 05/08/25 05:58

John Maslak, Zade-Anne Taylor, Chemist 05/08/25

CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522

The initial calibration met criteria and the linear range is defined daily by the calibration range.
The Low-Level Calibration Verification (LLCV) met criteria.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

PSA 05/09/25 06:24

John Maslak, Zade-Anne Taylor, Chemist 05/09/25

CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524, CT21525

The initial calibration met criteria and the linear range is defined daily by the calibration range.
The Low-Level Calibration Verification (LLCV) met criteria.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

PSA 05/13/25 05:51

Zade-Anne Taylor, Chemist 05/13/25

CT21526

The initial calibration met criteria and the linear range is defined daily by the calibration range.
The Low-Level Calibration Verification (LLCV) met criteria.



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Mercury Narration

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

PSA 05/15/25 06:15

Zade-Anne Taylor, Chemist 05/15/25

CT21526

The initial calibration met criteria and the linear range is defined daily by the calibration range.
The Low-Level Calibration Verification (LLCV) met criteria.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 783276 (CT21475)

CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512

All LCS recoveries were within 80 - 120 with the following exceptions: None.
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

Batch 783278 (CT21605)

CT21523, CT21524, CT21525

All LCS recoveries were within 80 - 120 with the following exceptions: None.
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

Batch 783287 (CT21176)

CT21506, CT21507, CT21508

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

Batch 783916 (CT21593)

CT21526

All LCS recoveries were within 80 - 120 with the following exceptions: None.
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

Batch 783917 (CT21777)

CT21526

All LCS recoveries were within 80 - 120 with the following exceptions: None.
Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

QC (Site Specific):



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Mercury Narration

Batch 783277 (CT21513)

CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

Batch 783289 (CT21509)

CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524, CT21525

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

All MSD recoveries were within 75 - 125 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range is 75-125% for aqueous and 80-120% for soils.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-2 05/12/25 10:19

Cindy Pearce, Chemist 05/12/25

CT21526

The initial calibration met criteria and the linear range is defined daily by the calibration range.

The Low-Level Calibration Verification (LLCV) met criteria.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.

The following Spectral Interference Check compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

ARCOS-3 05/08/25 10:29

Cindy Pearce, Tina Hall, Chemist 05/08/25

CT21506, CT21507, CT21508, CT21509, CT21510, CT21525

The initial calibration met criteria and the linear range is defined daily by the calibration range.

The Low-Level Calibration Verification (LLCV) met criteria.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.

The following Spectral Interference Check compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

ARCOS-4 05/07/25 11:11

Tina Hall, Chemist 05/07/25

CT21526

The initial calibration met criteria and the linear range is defined daily by the calibration range.

The Low-Level Calibration Verification (LLCV) met criteria.



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ICP Metals Narration

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.
The following Spectral Interference Check compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

ARCOS-4 05/08/25 11:40 Cindy Pearce, Tina Hall, Chemist 05/08/25

CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524, CT21525

The initial calibration met criteria and the linear range is defined daily by the calibration range.
The Low-Level Calibration Verification (LLCV) met criteria.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Initial Calibration Blank (ICB) compounds did not meet criteria: None.
The following Spectral Interference Check compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following Continuing Calibration Blank (CCB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 783153 (CT21329)

CT21506, CT21507, CT21508, CT21509, CT21510

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

Batch 783154 (CT20744)

CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

Batch 783207 (CT21605)

CT21525

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

Batch 783234 (CT21143)

CT21526

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS



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ICP Metals Narration

acceptance range 75-125%.

Batch 783281 (CT21606)

CT21521, CT21522, CT21523, CT21524, CT21525

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

Batch 783660 (CT21743)

CT21526

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

QC (Site Specific):

Batch 783280 (CT21506)

CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

Batch 783283 (CT21507)

CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524, CT21525

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% for aqueous and for soils the acceptance range is set by vendor limits. MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD29 05/13/25-1

Saadia Chudary, Chemist 05/13/25

CT21526 (1X)

The initial calibration (PC0404AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0404BI) RSD for the compound list was less than 20% except for the following compounds: None.



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PCB Narration

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

AU-ECD3 05/16/25-1 Saadia Chudary, Chemist 05/16/25

CT21506 (10X), CT21507 (10X), CT21508 (10X), CT21510 (10X), CT21511 (10X), CT21512 (10X), CT21513 (10X), CT21514 (10X), CT21515 (10X), CT21516 (10X), CT21517 (10X), CT21518 (10X), CT21519 (10X)

The initial calibration (PC0325AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0325BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

AU-ECD48 05/16/25-1 Saadia Chudary, Chemist 05/16/25

CT21520 (10X)

The initial calibration (PC0414AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0414BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

AU-ECD7 05/16/25-1 Saadia Chudary, Chemist 05/16/25

CT21509 (10X), CT21521 (10X), CT21522 (10X), CT21523 (10X), CT21524 (10X), CT21525 (10X)

The initial calibration (PC0430AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0430BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

QC (Batch Specific):

Batch 784027 (CT22381)

CT21526

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Batch 784710 (CT28972)

CT21521, CT21522, CT21523, CT21524, CT21525

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

NR - surrogates were not added to blank and are not reported.

QC (Site Specific):

Batch 784640 (CT21515)

CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

PEST Narration



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Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD33 05/08/25-1

Adam Werner, Chemist 05/08/25

CT21526 (1X)

The initial calibration (PS0411AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0411BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds: None.

AU-ECD33 05/19/25-1

Adam Werner, Chemist 05/19/25

CT21510 (2X), CT21511 (2X), CT21515 (2X), CT21518 (2X)

The initial calibration (PS0411AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0411BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CT21510

Preceding CC 519B037 - Endrin aldehyde 22%H (20%)
Succeeding CC 519B050 - Endrin aldehyde 28%H (20%)

Samples: CT21511, CT21515, CT21518

Preceding CC 519B050 - Endrin aldehyde 28%H (20%)
Succeeding CC 519B064 - Endrin aldehyde 24%H (20%)

AU-ECD35 05/16/25-1

Adam Werner, Chemist 05/16/25

CT21507 (2X), CT21508 (2X), CT21512 (2X), CT21513 (2X), CT21514 (2X), CT21517 (2X), CT21519 (2X), CT21520 (2X)

The initial calibration (AC0428AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (AC0428BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CT21507, CT21512, CT21513, CT21517

Preceding CC 516B020 - Methoxychlor -23%L (20%)
Succeeding CC 516B033 - None.

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CT21508, CT21514, CT21519, CT21520

Preceding CC 516B033 - None.
Succeeding CC 516B047 - Endosulfan II -21%L (20%), Methoxychlor -22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD4 05/16/25-1

Adam Werner, Chemist 05/16/25

CT21506 (2X), CT21509 (2X), CT21516 (2X), CT21521 (2X), CT21522 (2X), CT21523 (2X), CT21524 (2X), CT21525 (2X)

The initial calibration (PS0501AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0501BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CT21506, CT21509, CT21516, CT21524, CT21525



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Preceding CC 516B020 - None.
Succeeding CC 516B033 - Endrin -22%L (20%), Endrin Ketone 23%H (20%)
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.
Samples: CT21521, CT21522, CT21523
Preceding CC 516B033 - Endrin -22%L (20%), Endrin Ketone 23%H (20%)
Succeeding CC 516B047 - Endrin -32%L (20%), Endrin aldehyde 29%H (20%), Endrin Ketone 38%H (20%), Methoxychlor - 21%L (20%)
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

QC (Batch Specific):

Batch 783122 (CT18225)

CT21526

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

Batch 784711 (CT28972)

CT21521, CT21522, CT21523, CT21524, CT21525

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

QC (Site Specific):

Batch 784641 (CT21515)

CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 30 - 150 with the following exceptions: None.
All MSD recoveries were within 30 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
8081 additional criteria: (LCS/LCSD)10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. LCS acceptance range is 40-140% MS acceptance range 30-150%.

SVOA Narration



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SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 783404 (Samples: CT21526): -----

One or more analytes is below the method criteria. A low bias for these analytes is possible. (Aniline, Benzidine)

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Bis(2-chloroethoxy)methane, Carbazole)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-Diphenylhydrazine, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4-Dichlorophenol, 2-Chlorophenol, 2-Nitrophenol, 4-Nitroaniline, Benzoic acid, Bis(2-chloroethoxy)methane, Carbazole, Hexachloroethane, N-Nitrosodiphenylamine, Phenol)

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% 2-Fluorophenol)

QC Batch 784771 (Samples: CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524): -----

One or more analytes is below the method criteria. A low bias for these analytes is possible.. (Aniline)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (3,3"-Dichlorobenzidine)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Aniline, Hexachlorocyclopentadiene)

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Benzidine)

QC Batch 784792 (Samples: CT21525): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (3,3"-Dichlorobenzidine, Aniline, Pyridine)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (3,3"-Dichlorobenzidine, Pyridine)

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Benzidine)

Instrument:

CHEM07 05/12/25-1

Matt Richard, Chemist 05/12/25

CT21526 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_SVFULL_0509):



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SDG I.D.: GCT21506

SVOA Narration

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.043 (0.05), 2-Nitrophenol 0.050 (0.1), Bis(2-chloroethyl)ether 0.588 (0.7)

Continuing Calibration Verification (CHEM07/0512_03-7_SVFULL_0509):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 2-Nitroaniline 44%L (20%)

The following compounds did not meet maximum % deviations: 2-Nitroaniline 44%L (40%)

The following compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.043 (0.05), 2-Nitrophenol 0.046 (0.1), Bis(2-chloroethyl)ether 0.617 (0.7)

CHEM07 05/16/25-2

Matt Richard, Chemist 05/16/25

CT21506 (1X), CT21507 (1X, 1000X), CT21508 (1X), CT21509 (1X), CT21510 (1X), CT21511 (1X), CT21512 (1X), CT21513 (1X), CT21514 (1X), CT21515 (1X), CT21516 (1X), CT21517 (1X), CT21518 (1X), CT21519 (1X), CT21520 (1X), CT21521 (1X), CT21522 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_SVFULL_0509):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.043 (0.05), 2-Nitrophenol 0.050 (0.1), Bis(2-chloroethyl)ether 0.588 (0.7), Hexachlorobenzene 0.069 (0.1)

Continuing Calibration Verification (CHEM07/0516_10-7_SVFULL_0509):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

98% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 2-Nitroaniline 38%L (20%), Pentachloronitrobenzene 21%H (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.048 (0.05), 2-Nitrophenol 0.055 (0.1), Bis(2-chloroethyl)ether 0.607 (0.7), Hexachlorobenzene 0.074 (0.1)

CHEM28 05/19/25-1

Matt Richard, Chemist 05/19/25

CT21525 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM28/28_SVFULL_0516):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.068 (0.1), Hexachlorobenzene 0.086 (0.1)

Continuing Calibration Verification (CHEM28/0519_03-28_SVFULL_0516):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

98% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Benzyl butyl phthalate 22%H (20%), Di-n-octylphthalate 23%H (20%)



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SVOA Narration

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.066 (0.1), Hexachlorobenzene 0.085 (0.1)

CHEM29 05/16/25-2

Matt Richard, Chemist 05/16/25

CT21523 (1X), CT21524 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM29/29_SVFull_0516):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.063 (0.1), Hexachlorobenzene 0.084 (0.1)

Continuing Calibration Verification (CHEM29/0516_24-29_SVFull_0516):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.060 (0.1), Hexachlorobenzene 0.081 (0.1)

QC (Batch Specific):

Batch 783404 (CT20374)

CT21526

All LCS recoveries were within 40 - 140 with the following exceptions: Aniline(12%), Benzidine(<10%), Bis(2-chloroethoxy)methane(14%), Carbazole(39%)

All LCSD recoveries were within 40 - 140 with the following exceptions: Aniline(12%), Benzidine(<10%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: % 2-Fluorophenol(38.4%), 1,2,4-Trichlorobenzene(23.3%), 1,2-Dichlorobenzene(21.1%), 1,2-Diphenylhydrazine(43.6%), 1,3-Dichlorobenzene(26.2%), 1,4-Dichlorobenzene(21.8%), 2,4-Dichlorophenol(22.6%), 2-Chlorophenol(25.2%), 2-Nitrophenol(21.8%), 4-Nitroaniline(38.8%), Benzoic acid(52.2%), Bis(2-chloroethoxy)methane(127.3%), Carbazole(74.2%), Hexachloroethane(23.3%), N-Nitrosodiphenylamine(43.8%), Phenol(21.1%)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

Batch 784771 (CT21507)

CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524

All LCS recoveries were within 40 - 140 with the following exceptions: Aniline(35%), Benzidine(<10%)

All LCSD recoveries were within 40 - 140 with the following exceptions: Benzidine(38%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: Aniline(46.2%), Hexachlorocyclopentadiene(36.9%)

All MS recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(15%), Aniline(31%), Benzidine(<10%)



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SVOA Narration

All MSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(15%), Aniline(26%), Benzidine(<10%)
All MS/MSD RPDs were less than 30% with the following exceptions: None.
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 784792 (CT21525)

CT21525

All LCS recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%)
All LCSD recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(36%), Aniline(33%), Benzidine(<10%)
All MSD recoveries were within 40 - 140 with the following exceptions: Aniline(29%), Benzidine(<10%), Pyridine(30%)
All MS/MSD RPDs were less than 30% with the following exceptions: 3,3'-Dichlorobenzidine(40.0%), Pyridine(31.0%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 783404 (Samples: CT21526): -----

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Pyridine)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Acenaphthylene, Pyridine)

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% 2-Fluorophenol)

Instrument:

CHEM69 05/10/25-1

Matt Richard, Chemist 05/10/25

CT21526 (1X)

Initial Calibration Evaluation (CHEM69/69_SIM18_0503):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

Continuing Calibration Verification (CHEM69/0510_04-69_SIM18_0503):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

97% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Hexachlorocyclopentadiene 35%L (30%)



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SVOASIM Narration

The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.

QC (Batch Specific):

Batch 783404 (CT20374)

CT21526

All LCS recoveries were within 30 - 130 with the following exceptions: Pyridine(28%)
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: % 2-Fluorophenol(27.6%), Acenaphthylene(61.9%), Pyridine(25.0%)
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

Batch 784771 (CT21507)

CT21506, CT21507, CT21508, CT21509, CT21510, CT21511, CT21512, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21519, CT21520, CT21521, CT21522, CT21523, CT21524

All LCS recoveries were within 40 - 140 with the following exceptions: Aniline(35%), Benzidine(<10%)
All LCSD recoveries were within 40 - 140 with the following exceptions: Benzidine(38%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: Aniline(46.2%), Hexachlorocyclopentadiene(36.9%)
All MS recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(15%), Aniline(31%), Benzidine(<10%)
All MSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(15%), Aniline(26%), Benzidine(<10%)
All MS/MSD RPDs were less than 30% with the following exceptions: None.
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 784792 (CT21525)

CT21525

All LCS recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%)
All LCSD recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(36%), Aniline(33%), Benzidine(<10%)
All MSD recoveries were within 40 - 140 with the following exceptions: Aniline(29%), Benzidine(<10%), Pyridine(30%)
All MS/MSD RPDs were less than 30% with the following exceptions: 3,3'-Dichlorobenzidine(40.0%), Pyridine(31.0%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration



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Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 783593 (Samples: CT21506, CT21507, CT21528): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (Bromoform)

QC Batch 783593H: -----

One or more analytes is below the method criteria. A low bias for these analytes is possible. (1,1-Dichloroethene)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (2-Hexanone, Bromoform, Carbon Disulfide, Carbon tetrachloride, Dibromochloromethane, trans-1,4-dichloro-2-butene, Trichlorotrifluoroethane)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (1,1-Dichloroethene, Trichlorofluoromethane)

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone, Bromomethane, Chloroethane, Diethyl ether, Trichlorofluoromethane)

QC Batch 783627 (Samples: CT21508, CT21509, CT21510, CT21511, CT21513, CT21514, CT21515, CT21516, CT21517, CT21518, CT21520, CT21521, CT21523, CT21524, CT21525): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (Acetone, Diethyl ether, Methylene chloride)

QC Batch 783923 (Samples: CT21519, CT21522): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Vinyl chloride)

Instrument:

CHEM03 05/09/25-1

Jane Li, Chemist 05/09/25

CT21519 (1X, 50X), CT21522 (1X)

Initial Calibration Evaluation (CHEM03/VT-L050425):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: trans-1,4-dichloro-2-butene 21% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: None.

Continuing Calibration Verification (CHEM03/0509_02-VT-L050425):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

98% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Dichlorodifluoromethane 25%L (20%), trans-1,4-dichloro-2-butene 25%H (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM14 05/14/25-1

Jane Li, Chemist 05/14/25



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SDG I.D.: GCT21506

VOA Narration

CT21512 (1X)

Initial Calibration Evaluation (CHEM14/VT050925):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

Continuing Calibration Verification (CHEM14/0514_01-VT050925):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM17 05/07/25-2

Michael Hahn, Chemist 05/07/25

CT21526 (1X), CT21527 (1X)

Chem 17 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.

EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM17/VT-042825):

97% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2,4-Trichlorobenzene 22% (20%), 1,2-Dibromo-3-chloropropane 24% (20%), trans-1,4-dichloro-2-butene 24% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.171 (0.2), Tetrahydrofuran (THF) 0.038 (0.05), trans-1,3-Dichloropropene 0.297 (0.3)

Continuing Calibration Verification (CHEM17/0507_25-VT-042825):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

97% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 2,2-Dichloropropane 27%L (20%), Bromoform 22%L (20%), trans-1,4-dichloro-2-butene 22%L (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.169 (0.2), 1,2-Dibromoethane 0.197 (0.2), Bromoform 0.091 (0.1), Tetrahydrofuran (THF) 0.037 (0.05), trans-1,3-Dichloropropene 0.266 (0.3)

CHEM18 05/08/25-1

Jane Li, Chemist 05/08/25

CT21508 (1X), CT21509 (1X), CT21510 (1X), CT21511 (1X), CT21513 (1X), CT21514 (1X), CT21515 (1X, 41.15X, 50X), CT21516 (1X), CT21517 (1X), CT21518 (1X), CT21520 (1X), CT21521 (1X), CT21523 (1X), CT21524 (1X), CT21525 (1X)

Initial Calibration Evaluation (CHEM18/VT-050625):

98% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2,4-Trichlorobenzene 22% (20%), trans-1,4-dichloro-2-butene 23% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: None.

Continuing Calibration Verification (CHEM18/0508_02-VT-050625):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Acetone 21%L (20%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.



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VOA Narration

CHEM31 05/08/25-1

Jane Li, Chemist 05/08/25

CT21506 (1X), CT21507 (1X, 45.75X, 50X), CT21528 (1X), CT21529 (50X)

Initial Calibration Evaluation (CHEM31/VT-050625):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.180 (0.2)

Continuing Calibration Verification (CHEM31/0508_02-VT-050625):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 783677 (CT21408)

CHEM17 5/7/2025-2

CT21526(1X), CT21527(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 783923 (CT23814)

CHEM03 5/9/2025-1

CT21519(1X), CT21522(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: Vinyl chloride(22.2%)

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 783923H (CT23814)

CHEM03 5/9/2025-1

CT21519(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 784526 (CT25363)

CHEM14 5/14/2025-1

CT21512(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QC (Site Specific):

Batch 783593 (CT21507)

CHEM31 5/8/2025-1

CT21506(1X), CT21507(1X), CT21528(1X)



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All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: Bromoform(65%)
All MSD recoveries were within 70 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: None.
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 783593H (CT21507) CHEM31 5/8/2025-1

CT21529(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(68%), Acetone(67%), Bromomethane(59%), Chloroethane(16%), Diethyl ether(49%), Trichlorofluoromethane(49%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(69%), Bromomethane(61%), Chloroethane(19%), Diethyl ether(50%), Trichlorofluoromethane(50%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(65%), 2-Hexanone(68%), Acetone(61%), Bromoform(55%), Bromomethane(54%), Carbon Disulfide(65%), Carbon tetrachloride(66%), Chloroethane(40%), Dibromochloromethane(69%), Diethyl ether(47%), trans-1,4-dichloro-2-butene(65%), Trichlorofluoromethane(50%)
All MSD recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(52%), 2-Hexanone(68%), Acetone(54%), Bromoform(56%), Bromomethane(48%), Carbon Disulfide(53%), Carbon tetrachloride(64%), Chloroethane(34%), Dibromochloromethane(68%), Diethyl ether(39%), trans-1,4-dichloro-2-butene(66%), Trichlorofluoromethane(40%), Trichlorotrifluoroethane(62%)
All MS/MSD RPDs were less than 20% with the following exceptions: 1,1-Dichloroethene(22.2%), Trichlorofluoromethane(22.2%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 783627 (CT21515) CHEM18 5/8/2025-1

CT21508(1X), CT21509(1X), CT21510(1X), CT21511(1X), CT21513(1X), CT21514(1X), CT21515(1X), CT21516(1X), CT21517(1X), CT21518(1X), CT21520(1X), CT21521(1X), CT21523(1X), CT21524(1X), CT21525(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: Acetone(65%), Diethyl ether(67%), Methylene chloride(69%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
The MSD is not reported for this LL soil batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 1.2C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



FUSS & O'NEILL

(860) 646-2469 • www.FandO.com

- ☐ 146 Hartford Road, Manchester, CT 06040
☒ 59 Elm Street, Suite 500, New Haven, CT 06510
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 1550 Main Street, Suite 400, Springfield, MA 01103
☐ 108 Myrtle Street, Suite 502, Quincy, MA 02171

- ☐ The Gateway Building, 50 Commercial Street, Unit 2S, Manchester, NH 03101
☐ 276 Newport Road, New London, NH 03257
☐ 205 Billings Farm Road, Suite 6B, White River Junction, VT 05001
☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
☐ 18012 Cowan, Suite 200, Irvine, CA 92614

1.2°C w/w

CHAIN-OF-CUSTODY RECORD

46874

Turnaround

- ☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard _____ days *Surcharge Applies

PROJECT NAME

PROJECT LOCATION

PROJECT NUMBER

LABORATORY

DOT Southington Rest Area Southington, CT

20210730.A62

Phoenix

REPORT TO: Ethan Stewart (F&O)

INVOICE TO:

P.O. NO.: 20210730.A62

Sampler's Signature: *Walter Dells*

Date: 05/16/25

Source Codes:

MW=Monitoring Well
SW=Surface Water

PW=Potable Water
ST=Stormwater

T=Treatment Facility
W=Waste

S=Soil
C=Concrete

X=Other _____

Transfer Check
1 2 3 4

Sample Number

Source Code

Date Sampled

Time Sampled

Item No.	1	2	3	4
	1900250506-B1(1-3)	-B1(7-9)	-B2(1-7)	-B2(5-7)
				-B3(1-7)
				-B3(5-7)
				-B16(2-4)
				-B16(4-6)
				-B16(3-5)
				-B16(7-9)

Analysis Request	500 APPC	1	2	3	1	21506
						21507
						21508
						21509
						21510
						21511
						21512
						21513
						21514
						21515

Transfer Number

Relinquished By

Accepted By

Date

Time

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
☒ Duplicates ☐ Blanks (Item Nos. _____)

Reporting and Detection Limit Requirements: ☐ RCP Deliverables ☐ MCP CAM Cert.



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- ☐ The Gateway Building, 50 Commercial Street, Unit 25, Manchester, NH 03101
☐ 276 Newport Road, New London, NH 03257
☐ 205 Billings Farm Road, Suite 6B, White River Junction, VT 05001
☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
☐ 18012 Cowan, Suite 200, Irvine, CA 92614

1.2°C WWR

CHAIN-OF-CUSTODY RECORD

46875

Tumaround

- ☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard _____ (days) *Surcharge Applies

PROJECT NAME

DOT Southwestern Best Area

PROJECT LOCATION

Southwestern, CT

PROJECT NUMBER

20210734-162

LABORATORY

Phenix

REPORT TO: Eileen Stewart

INVOICE TO:

P.O. NO.: 20210734-162

Sampler's Signature: *Eileen Stewart*

Date: 5/6/25

Source Codes:

MW=Monitoring Well

PW=Portable Water

T=Treatment Facility

S=Soil

B=Sediment

SW=Surface Water

ST=Stormwater

W=Waste

A=Air

C=Concrete

X=Other

Item No.	Transfer Check				Sample Number	Source Code	Date Sampled	Time Sampled
	1	2	3	4				
					1960250506 - B11(1-3)	S	5/6/25	1405
					- B11(5-7)			1415
					- B12(2-4)			1030
					- B12(4-6)			1635
					- B13(2-4)			1145
					- B13(4-6)			1200
					- B14(1-3)			1110
					- B14(5-7)			1115
					- B15(2-4)			1055
					- B17(4-6)			1445

Analysis Request

Containers

Soil VOA Vial	Glass Soil Container ()	Other Soil Container ()	Water VOA Vial	Glass Amber ()	Plastic - As is ()	Plastic - H ₂ SO ₄ ()	Plastic - HNO ₃ ()	Plastic - NaOH ()	Comments
1	2	3	1						21516
1	1	1	1						21517
1	1	1	1						21518
1	1	1	1						21519
1	1	1	1						21520
1	1	1	1						21521
1	1	1	1						21522
1	1	1	1						21523
1	1	1	1						21524
1	1	1	1						21525

Transfer Number	Relinquished By	Accepted By	Date	Time	Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
1	<i>Eileen Stewart</i>	<i>Pro Frigge</i>	5/6/25	6:19	Duplicates _____ Blanks (Item Nos: _____)
2	<i>Pro Frigge</i>	<i>Pro Frigge</i>	5/6/25	12:17	Reporting and Detection Limit Requirements: ☐ RCP Deliverables ☐ MCP CAM Cert.
3	<i>Pro Frigge</i>	<i>Pro Frigge</i>	5/12/25	14:25	Additional Comments: <i>16306, GAPM</i>
4					

GCT 21526

Analytical Parameter Request

Project #: 20210730.A62	Date Sampled: 5/6/2025	FUSS & O'NEILL
Project Name: Southington Rest Area	Date Submitted: 5/26	
Laboratory: Phoenix	Submitter: Fuss & O'Neill, Inc.	

Report To: Fuss & O'Neill, Inc.	Attention: Ethan Stewart

Invoice to: Fuss & O'Neill, Inc. Mailing Address: 59 Elm Street, Suite 500 City, State, Zip: New Haven, Connecticut, 06510	Attention: Ethan Stewart Phone #: (203) 751-2816
Special Instructions:	

COC #	Sample ID	COC #	Sample ID	COC #	Sample ID
46874	1960250506-B1(1-3)	46874	1960250506-B10(7-9)		1960250506-B13(2-4)
	-B1(7-9)		-B10(7-9)		-B13(4-6)
	-B2(1-3)	46875	-B11(1-3)		-B14(1-3)
	-B2(5-7)		-B11(5-7)		-B14(5-7)
	-B3(1-3)		-B12(2-4)		-B15(2-4)
	-B3(5-7)		-B12(4-6)		-B17(1-3)
	-B16(2-4)				
	-B16(4-6)				

Comments: RES DEC, GAPMC

/	Blank(s) included in sample
	Duplicate(s) included in sample

Requested Parameters

- Extractable Petroleum Hydrocarbons (ETPH) by Connecticut ETPH Method
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270
- Volatile Organic Compounds (VOCs) by EPA Method 8260
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Chlorinated Pesticides by EPA Method 8081
- Chlorinated Herbicides by EPA Method 8151
- MCP 14 Metals by EPA Method 6010/7471
- SPLP RCRA 8 Metals + copper, nickel, zinc by EPA Method 6000/7000
- TCLP RCRA 8 Metals + copper, nickel, zinc by EPA Method 1311/6010/7470
- Specific Conductance
- Ignitability by EPA Method 1010
- Corrosivity (pH) by EPA Method 6040
- Reactivity (sulfide/cyanide) by SW846

SOIL

GCT 21506-21526
gw

Analytical Parameter Request

Project #: 20210730.A62	Date Sampled: 5/ /2025	FUSS & O'NEILL
Project Name: Southington Rest Area	Date Submitted:	
Laboratory: Phoenix	Submitter: Fuss & O'Neill, Inc.	

Report To: Fuss & O'Neill, Inc.	Attention: Ethan Stewart

Invoice to: Fuss & O'Neill, Inc.	Attention: Ethan Stewart Phone #: (203) 751-2816
Mailing Address: 59 Elm Street, Suite 500	
City, State, Zip: New Haven, Connecticut, 06510	
Special Instructions:	

COC #	Sample ID	COC #	Sample ID	COC #	Sample ID
46880	1960250506-MW10				
↓	↓ -FB				

Comments:	
GWPC, SWPC	☐ Blank(s) included in sample ☐ Duplicate(s) included in sample

Requested Parameters

- Extractable Petroleum Hydrocarbons (ETPH) by Connecticut ETPH Method
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270
- Volatile Organic Compounds (VOCs) by EPA Method 8260
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Chlorinated Pesticides by EPA Method 8081
- Chlorinated Herbicides by EPA Method 8151
- Total and Dissolved RCRA 8 Metals + copper, nickel, zinc by EPA Method 6000/7000

Groundwater