

August 1, 2024

Mr. Sal Sciascia  
Alternative Petroleum Services LLC.  
PO Box 820  
Milford, PA 18337  
570.807.1797 office  
[alternativepetroleum@gmail.com](mailto:alternativepetroleum@gmail.com)

**RE: LIMITED PHASE II SITE INVESTIGATION  
57 LA GRANGE STREET  
BLOCK 93, LOT 1  
RARITAN BOROUGH, NJEW JERSEY  
PT PROJECT #13794-01**

Dear Mr. Sciascia:

PT Consultants, Inc. (PT) is pleased to submit the findings of the Limited Phase II Site Investigation (Phase II) associated with the above referenced property for your review. A site location map is provided as **Figure 1**. The scope of work was generated following the review of the Phase I completed by DCR Environmental Services, Inc. dated August 15, 2023 (“the Phase I”), as well as certain presumptions of potential recognized environmental concerns (PRECs) which are typically associated with the knowledge of the Subject Property. The following recognized environmental concerns (RECs) and PRECs were identified for which additional investigation was recommended:

- ▶ **Potential USTs:** PT’s review of available records identified the potential for previously unidentified underground storage tanks (UST) to exist. Therefore, a geophysical survey was recommended to identify any USTs on the Subject Property which had not been previously addressed.
- ▶ **Historic Fill:** PT’s review of the Phase I has identified the presence of mapped historic fill which underlies the majority of the Subject Property. PT has estimated that approximately 0.43 acres of the property are mapped as being underlain with historic fill materials. The NJDEP recognizes historic fill as a source of contamination. A fill investigation to characterize and confirm the extent of such materials was recommended.
- ▶ **Potential ACMs:** Based on the reported construction date of the Site building, the general presence of asbestos containing materials (ACMs) could not be precluded. It was recommended that prior to the performance of any renovations or demolition that verification sampling of ACMs in the proposed work areas be conducted to ensure that no ACM will be impacted by work activities.

The investigation activities and results are detailed in the following sections:

### **Geophysical Survey**

On July 8, 2024, Oil Tank Sweep Premier, of Glen Gardner, New Jersey, (OTSP) mobilized to the subject property to complete the geophysical survey. The purpose of this investigation was to determine the potential for USTs to exist within the subject property. OTSP utilized a combination of ground penetrating radar (GPR), Fisher TW-6 and LMX200e to complete the investigation. The results of the geophysical survey reported the following:

- ▶ The property was swept to a distance of at least 30ft around the perimeter of the house. No metal anomalies consistent with the size of an underground storage tank were identified during the oil tank sweep.

A copy of the Geophysical Survey Report is provided as **Attachment 1**.

### **July 8, 2024, Soil Investigation**

On July 8, 2024, PT and its subcontractor, Alternative Petroleum Services, LLC (APS), of Milford, Pennsylvania, mobilized to the subject property to complete a subsurface investigation at the Subject Property. The goal of the investigation was to determine if potential impacts were present associated with the historic fill. Utilizing direct-push drilling technology two (2) soil borings (SB-1 and SB-2) were installed throughout the subject property biased to the areas mapped with historic fill on NJDEP's GeoWeb online GIS application, under the direct supervision of PT field personnel. The soil boring locations are depicted on **Figure 2**.

Throughout the soil boring investigation, the soils from each boring were continuously screened for the presence of volatile organic compounds (VOCs) with a photoionization detector (PID) and logged for lithology, presence of staining, and presence of odors. PT field notes and soil boring logs are included as **Attachment 2**.

- ▶ Soil boring SB-1 was advanced within the southeastern corner of the subject property to a total depth of 12 feet below ground surface (bgs). The soil column consisted of a two-foot layer of topsoil atop various colorations, including red, brown, and grey, of silty clay. No indications of impact (e.g., stained soil, odors, or PID readings) were observed in the boring. As no field indications of a release were encountered, PT proceeded to collect soil sample SB-1 from 4.5 to 5.0 feet bgs.
- ▶ Soil boring SB-2 was advanced within the southeastern corner of the subject property to a total depth of 12 feet bgs. The soil column consisted of a two-foot layer of topsoil atop various colorations, including red, brown, and grey, of silty clay. No indications of impact (e.g., stained soil, odors, or PID readings) were observed in the boring. As no field indications of a release were encountered, PT proceeded to collect soil sample SB-2 from 4.5 to 5.0 feet bgs.

After collection, the soil samples SB-1 and SB-2 were submitted to Phoenix Environmental

Laboratories, LLC of Manchester, Connecticut (Phoenix) to be analyzed for polynuclear aromatic hydrocarbons (PAHs) and target analyte list (TAL) metals with 25% of the total number of samples collected to be analyzed for target compound list and target analyte list plus thirty tentatively identified compounds (TCL/TAL+30) and extractable petroleum hydrocarbons category II (EPHCATII) per NJDEP requirements for historic fill. However, due to laboratory error and over-dilution of the samples, the data was rendered unsuitable for proper characterization. PT remobilized to the Subject Property to recollect samples for re-submission.

### **July 15, 2024, Soil Investigation**

On July 15, 2024, PT re-mobilized to the subject property to complete a subsurface investigation at the Subject Property. The goal of the investigation was to determine if potential impacts were present associated with the historic fill. Utilizing a hand auger, two (2) soil borings (SBD-1 and SBD-2) were installed at various locations at the subject property biased to the areas mapped with historic fill on NJDEP's GeoWeb online GIS application by PT field personnel. The soil boring locations are depicted on **Figure 2**.

Throughout the soil boring investigation, the soils from each boring were continuously screened for the presence of volatile organic compounds (VOCs) with a photoionization detector (PID) and logged for lithology, presence of staining, and presence of odors. PT field notes and soil boring logs are included as **Attachment 2**.

- ▶ Soil boring SBD-1 was advanced within the southeastern corner of the subject property to a total depth of 5 feet below ground surface (bgs). The soil column consisted of a 0.5-foot of topsoil atop various colorations, including red and brown silt with small stones. No indications of impact (e.g., stained soil, odors, or PID readings) were observed in the boring. As no field indications of a release were encountered, PT proceeded to collect soil sample SBD-1 from 4.5 to 5.0 feet bgs.
- ▶ Soil boring SBD-2 was advanced within the southeastern corner of the subject property to a total depth of 5 feet bgs. The soil column consisted of a 0.5-foot of topsoil atop various colorations, including red and brown silt with small stones. No indications of impact (e.g., stained soil, odors, or PID readings) were observed in the boring. As no field indications of a release were encountered, PT proceeded to collect soil sample SBD-2 from 4.5 to 5.0 feet bgs.

After collection, the soil samples SBD-1 and SBD-2 were submitted to Phoenix to be analyzed for PAHs and TAL metals with 25% of the total number of samples collected to be analyzed for TCL/TAL+30 and EPHCATII per NJDEP requirements for historic fill.

### **Soil Analytical Results**

Soil sample SBD-1 reported beryllium at a concentration of 1.05 milligrams per kilogram (mg/kg) and soil sample SBD-2 reported beryllium at a concentration of 0.94 mg/kg, which exceed the default migration to groundwater soil remediation standard (SRS) of 0.70 mg/kg). Soil sample SBD-2 also reported benzo(a)anthracene at a concentration of 3.1 mg/kg which exceeds the default

migration to groundwater SRS of 0.71 mg/kg. Soil sample SBD-2 also reported benzo(a)pyrene at a concentration of 3.1 mg/kg which exceeds the residential ingestion-dermal SRS of 0.51 mg/kg, as well as the non-residential ingestion-dermal SRS of 2.3 mg/kg. All other reported compounds were non-detect or at concentrations below their respective SRS. Based on the exceedances reported in soil sample SBD-2, the soil sample was activated for contingent analysis of TCL/TAL+30 and EPHCATII.

The analytical results for the contingent analyses reported all compounds as non-detect or at concentrations below their respective SRS.

A tabulated summary of laboratory analytical results for the soil samples is provided as **Table 1**. A copy of the laboratory data package is provided as **Attachment 3**.

### **ACM Survey**

APS's certified asbestos investigating contractor, ACM Solutions Services, LLC, (ACMSS) mobilized to the site on July 8, 2024, to complete the inspection and sampling. Based on the inspection, ACMSS identified several suspected ACMs including sheetrock wall, linoleum flooring, floor tile, ceiling tile, window glazing and roofing material. ACMSS collected bulk samples from each of the accessible materials. The samples were delivered to and analyzed by Hillman Consulting, LLC of Union, New Jersey for asbestos content using Polarized Light Microscopy (PLM) by EPA Method 600/R-93/116. The non-friable, organically bound materials were analyzed by Transition Electron Microscopy (TEM) by EPA 600/R-93/116 per NJDOL requirements. The laboratory analytical results are included in **Attachment 4**.

An asbestos-containing material is defined as a material which contains asbestos in concentrations of 1% or greater by weight or volume. Based on the laboratory analysis, the following material was determined to be asbestos-containing:

- ▶ Kitchen linoleum – chrysotile 10%, non-fibrous 90%
- ▶ Primary roofing material – chrysotile 3%, non-fibrous 90%, cellulose fiber 7%

### **Conclusions and Recommendations**

PT was retained to complete a Phase II Site Investigation of the property located at 57 LaGrange Street, in Raritan Borough, New Jersey. The investigation was completed to assess the potential for impacts to be present associated with the RECs identified in the Phase I completed by DCR Environmental Services, Inc. dated August 15, 2023.

#### *Soil Investigation*

PT advanced soil borings associated with the mapped historic fill on the Subject Property. Soil samples were collected and analyzed for PAHs and TAL metals and soil sample SBD-2 was activated for full TCL/TAL+30 and EPHCATII analysis, per the NJDEP Technical Rules for Site Remediation for the investigation of historic fill. No additional compounds were identified in the contingent analyses; however, the compounds identified within soil samples are consistent with those commonly associated with historic fill. Based on these findings, additional remedial

activities (i.e., hotspot delineation and excavation or engineering and institutional controls) are required in order to remediate historic fill at the Subject Property.

#### *ACM Survey*

Based on ACM survey results, PT recommends that if proposed renovations or demolitions will impact the ACMs, the materials should be abated concurrent with the renovations. The abatement should be performed by a licensed abatement contractor and should occur together with associated project monitoring and air sampling. If the ACMs will not be abated, an Operations & Maintenance (O&M) Plan should be prepared and implemented for the remaining materials as per OSHA regulations. If additional materials are discovered during the demolitions, the material should be sampled and analyzed for asbestos content, if any.

PT appreciates the opportunity to be of service on this project. If you have any questions regarding this report, please feel free to contact me at (856) 251-9980.

Sincerely,  
PT Consultants, Inc.



Justin Garcia  
Project Manager

#### **Figures:**

- ▶ Figure 1: Site Location Map
- ▶ Figure 2: Sample Location Map

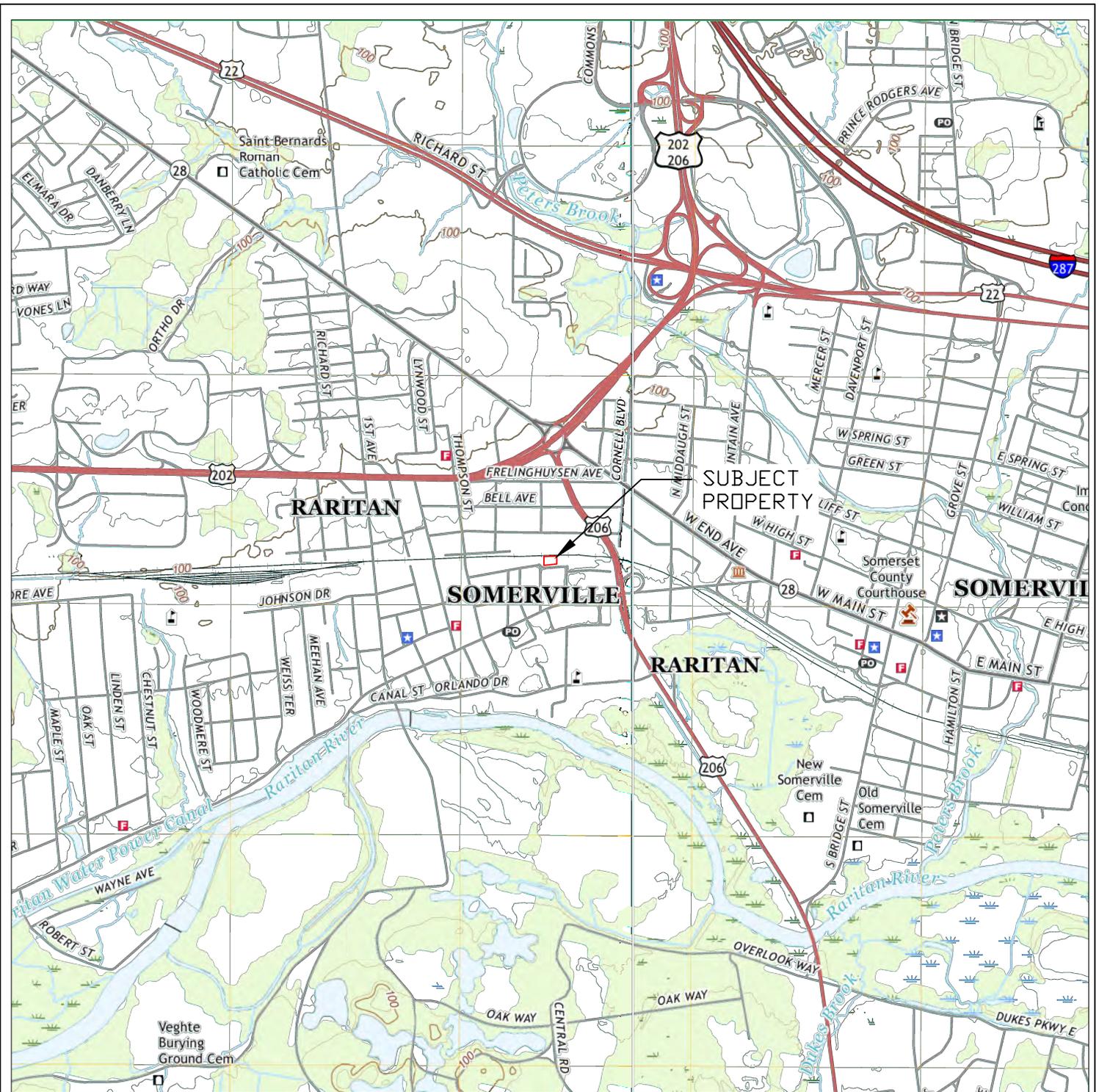
#### **Tables:**

- ▶ Table 1: Soil Analytical Results

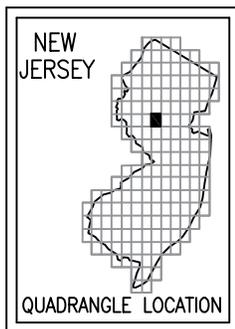
#### **Attachments:**

- ▶ Attachment 1: Geophysical Survey Report
- ▶ Attachment 2: PT Field Notes and Logs
- ▶ Attachment 3: Laboratory Analytical Data Package – GCR19396
- ▶ Attachment 4: July 2024 Asbestos Survey Report

## **FIGURES**



SOURCE:  
USGS 7.5 MINUTE TOPOGRAPHIC SERIES  
TOWN, NEW JERSEY  
YEAR



## FIGURE 1 SITE LOCATION MAP

PREPARED FOR:  
ALTERNATIVE PETROLEUM SERVICES, LLC  
P.O. BOX 820  
MILFORD, PENNSYLVANIA 18337

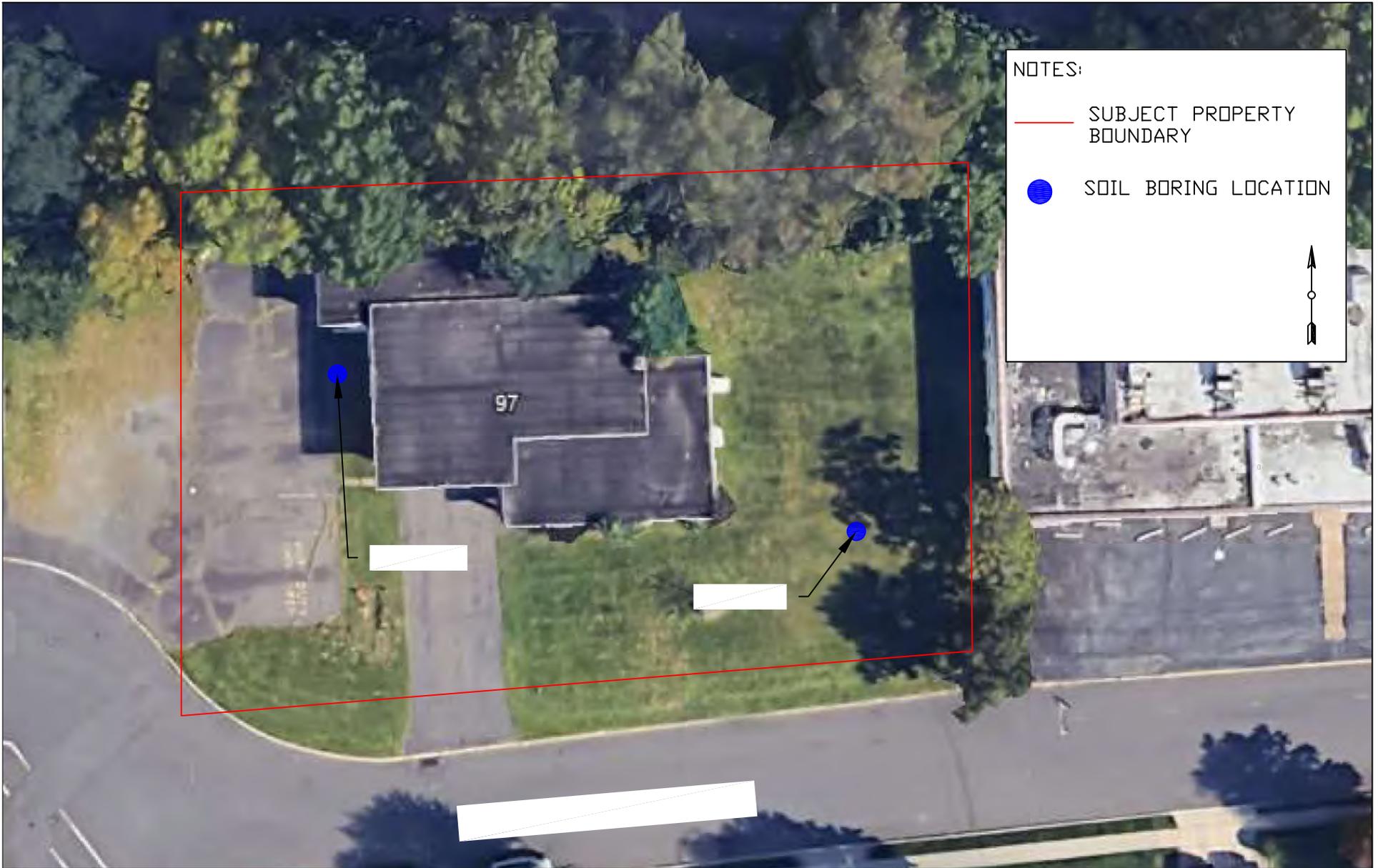
PREPARED BY:  
PT CONSULTANTS, INC.  
560 BENIGNO BLVD, 2ND FLOOR  
BELLMAWR, NEW JERSEY 08031

PT PROJECT #: 13794-01

DRAFTED BY: JG

DATE: JULY 1, 2024

SCALE: 1" = 24,000'



NOTES:

— SUBJECT PROPERTY BOUNDARY

● SOIL BORING LOCATION

FIGURE 2  
SITE PLAN  
 57 LaGRANGE STREET  
 RARITAN, NEW JERSEY

PREPARED FOR:  
 ALTERNATIVE PETROLEUM SERVICES, LLC  
 P.O. BOX 820  
 MILFORD, PENNSYLVANIA 18337  
 (570) 807-1797

PREPARED BY:  
 PT CONSULTANTS, INC  
 560 BENINGO BLVD, 2ND FLOOR  
 BELLMAWR, NEW JERSEY 08031  
 (856) 251-9980/FAX (856) 931-1849

Date: JULY 30, 2024	PT Project # 13794-01	Draftsman: JG	Scale: 1:30
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## **TABLES**

Table 1: Soil Analytical Results  
 Historic Fill  
 57 La Grange Street  
 Raritan Borough, New Jersey  
 PT Project # 13794-01

Sample ID: Lab ID: Sampling Date: Sample Depth (ft):	Residential Ingestion- Dermal Exposure Pathway	Non-residential Ingestion- Dermal Exposure Pathway	Residential Inhalation Exposure Pathway	Non-residential Inhalation Exposure Pathway	Migration to Groundwater Pathway	SBD-1		SBD-2	
						CR19396		CR19397	
						7/15/2024		7/15/2024	
						4.5 - 5.0		4.5 - 5.0	
Compound						Result	Q	Result	Q
<b>SVOC+20 (mg/kg)</b>									
Acenaphthene	3,600	50,000	NS	NS	NS	< 0.37	U	0.43	
Acenaphthylene	NS	NS	NS	NS	NS	< 0.37	U	0.14	J
Anthracene	18,000	250,000	NS	NS	NS	< 0.37	U	1.1	
Benzo(a)anthracene	5.1	23	78,000	370,000	<b>0.71</b>	< 0.37	U	<b>3.1</b>	
Benzo(a)pyrene	<b>0.51</b>	<b>2.3</b>	3,500	16,000	NS	< 0.37	U	<b>3.1</b>	
Benzo(b)fluoranthene	5.1	23	78,000	370,000	NS	< 0.37	U	3.7	
Benzo(ghi)perylene	NS	NS	NS	NS	NS	0.16	J	1.7	
Benzo(k)fluoranthene	51	230	780,000		NS	< 0.37	U	1.3	
Carbazole	NS	NS	NS	NS	NS	NR		0.39	
Chrysene	510	2,300	NS	NS	NS	< 0.37	U	2.7	
Dibenz(a,h)anthracene	0.51	2.3	7,800	37,000	NS	< 0.37	U	0.41	
Dibenzofuran	NS	NS	NS	NS	NS	NR		0.13	J
Dimethylphthalate	NS	NS	NS	NS	NS	NR		0.27	
Fluoranthene	2,400	33,000	NS	NS	NS	< 0.37	U	6.2	
Fluorene	2,400	33,000	NS	NS	NS	< 0.37	U	0.44	
Indeno(1,2,3-cd)pyrene	5.1	23	78,000	370,000	NS	< 0.37	U	1.9	
Phenanthrene	NS	NS	NS	NS	NS	< 0.37	U	4.1	
Pyrene	1,800	25,000	NS	NS	NS	< 0.37	U	5.2	
Total TICs	NS	NS	NS	NS	NS	NR		9.88	J
<b>EPH Cat II (mg/kg)</b>									
Total EPH (C9-C40)	NS	NS	NS	NS	NS	NR		150	
<b>TAL Metals (mg/kg)</b>									
Aluminum	78,000	NS	NS	NS	NS	17,900		13,600	
Arsenic	19	19	1,100	5,200	19	3.15		4.82	
Barium	16,000	260,000	870,000	NS	2,100	117	*	118	*
Beryllium	160	2,600	2,000	9,300	<b>0.7</b>	<b>1.05</b>		<b>0.94</b>	
Calcium	NS	NS	NS	NS	NS	2,190		2,340	
Chromium	NS	NS	NS	NS	NS	27.8		21	
Cobalt	23	390	520	2,500	90	12.9		11.5	
Copper	3,100	52,000	NS	NS	910	17.3		20.3	
Iron	NS	NS	NS	NS	NS	30,400		26,900	
Lead	200	800	NS	NS	90	22.5		18.7	
Magnesium	NS	NS	NS	NS	NS	6,010		3,980	
Manganese	1,900	31,000	87,000	400,000	NS	307		281	
Nickel	1,600	26,000	20,000	93,000	48	26		23.9	
Potassium	NS	NS	NS	NS	NS	2,180	N	2,070	N
Sodium	NS	NS	NS	NS	NS	308	*	139	*
Vanadium	390	6,500	170,000	800,000	NS	39.2		35.3	
Zinc	23,000	390,000	NS	NS	930	77.6		70.7	
<b>General Chemistry</b>									
Percent Solid	NS	NS	NS	NS	NS	89		92	
Total Cyanide (SW9010C Distill.)	47	780	NS	NS	20	NR		< 0.54	U

**NOTES:**

**BOLD = RL Exceeds SRS**

**Result Exceeds SRS**

All results measured in mg/kg

NR=this indicates the analyte was not a target for this sample

NS=this indicates that no regulatory limit has been established for this analyte

U=The compound was analyzed for but not detected at or above the MDL.

J=The value is estimated

N=The concentration is based on the response for the nearest internal

## **ATTACHMENTS**

**ATTACHMENT 1**

**GEOPHYSICAL SURVEY REPORT**



**Client:** *Alternative Petroleum Services*

**Date:** *July 8, 2024*

**Subject Property:** *57 LaGrange Rd, Raritan, NJ*

Oil Tank Sweep Premier LLC performed a visual inspection and physical sweep of the above referenced property to identify existing vent pipes, fill pipes and fuel distribution lines for an underground storage tank (UST). No vent pipes, fill pipes or fuel distribution lines were found during the inspection.

Utilizing electronic metal detection equipment and ground penetrating radar (Fisher TW-6 & LMX200e), the grounds were swept searching for any buried metallic objects representing a UST. The detection equipment utilized is capable of locating a metallic object up to a depth of five feet and eight feet, respectively.

The property was swept to a distance of at least 30ft around the perimeter of the house. No metal anomalies consistent with the size of an underground storage tank were identified during the oil tank sweep.

If you have any questions about this report please feel free to contact us.

A handwritten signature in black ink that reads "Eric Hanson". The signature is written in a cursive style.

Eric Hanson

908-246-0852

Oil Tank Sweep Premier LLC

2 Mountain Brook Ln, Glen Gardner, NJ 08826

Terms and Conditions: Areas not accessible to the magnetic locator due to locational variabilities, dense vegetation, denied access, structural blockage, outdoor furniture or AC units at the time the sweep was performed are excluded from this report. The methods used at this site have been used successfully at many sites to locate underground storage tanks and drums. There can be no guarantee, however, that every target will be detected at a particular sight due to listed variables. We are not responsible for the removal of any metallic areas other than an oil/gas tank if they are found at a later date within the 30ft perimeter. Subsurface conditions (e.g. rebar/wire mesh under concrete, metal siding, foundations, structures, soil quality and others) may prevent some or all geophysical locating methods from working properly. There are no refunds after the work is completed and the job is paid for unless a oil/gas tank is later found and you've taken possession of said property, in which case it will be removed/remediated and paid for at our cost. By accepting this report you agree to all the above statements and terms and conditions. This document and guarantee is only valid for the paid customer above and is not transferable to the next owner.

**ATTACHMENT 2**  
**PT FIELD NOTES AND LOGS**

Location 57 La Grange St, Raiton, MS Date 7/8/24Project / Client 13794-01

weather: 80s sunny

0900 PT (AD) on site

Alternative Petroleum Services, LLC  
(Tom Schmidt) on site  
Site owner on site

Alternative Petroleum Services, LLC  
(Tom Schmidt) discussed

general areas of utilities  
based on visual observations

- utilities are existing running southeast [electrical]
- water is running west from the north west corner of the existing building
- piping at southern portion of property - potentially leading to UST
- oil line existing north east corner of building
- sewer line was identified but it could not be determined where the line exits the building

Scope of work: Phase II investigation

Collecting two (2) samples via two (2) soil borings to 10ft bgs

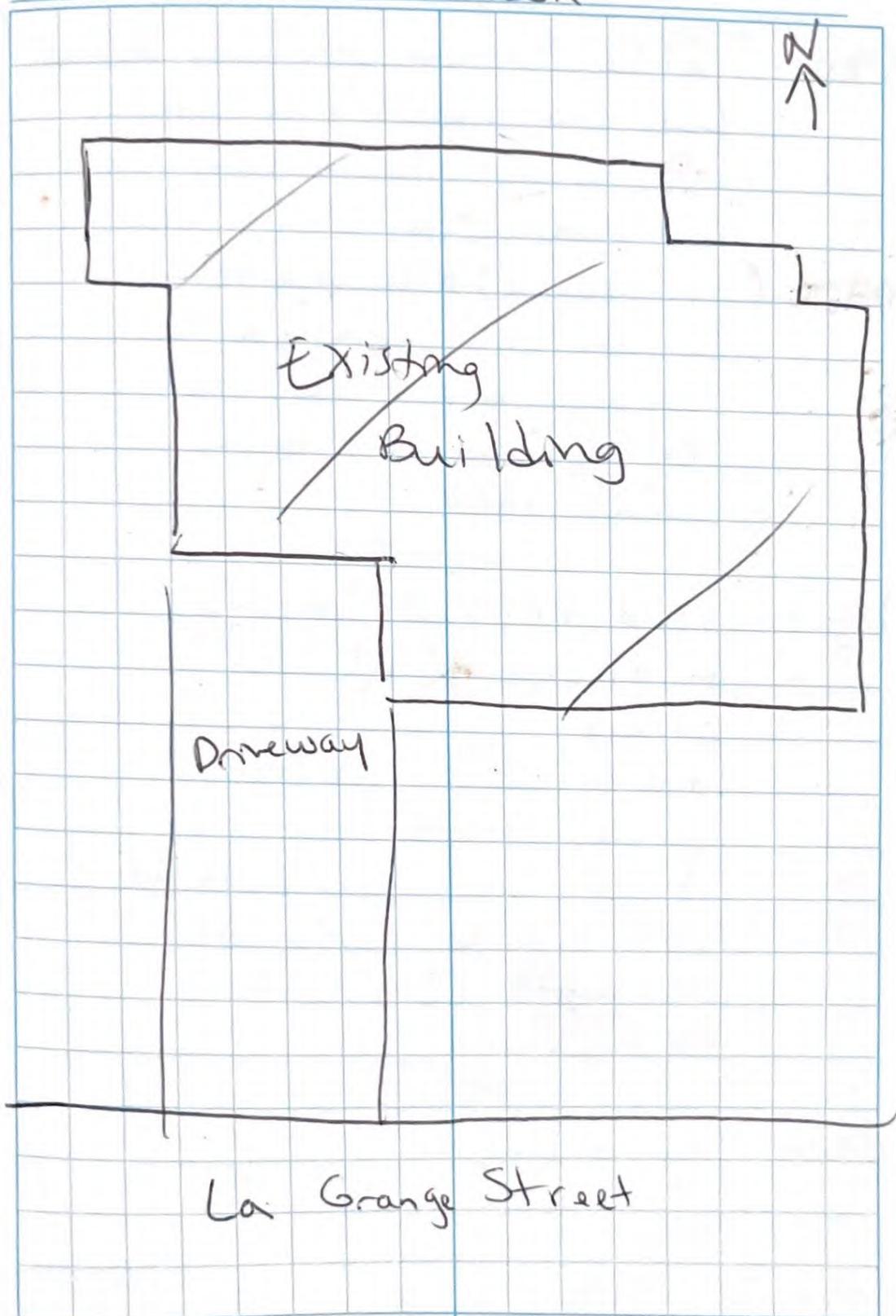
Location 37 La Grange St

Date 7/8/24

17

Project / Client 13794-01

**\*NOT TO SCALE\***



Location 57 La Grange St

Date 7/8/24

Project / Client 13794-01

0906 <sup>PT (AO)</sup> Called Alternate Petroleum Services, LLC (Sal Suacia) to obtain GPR contact information and obtain ETA

0926 (Sal Suacia) Alternative Petroleum Services, LLC returned the call and told PT (AO) that GPR surveyor will arrive around 1300

0928 Called PT (Justin Garcia) to advise on how to proceed  
- said to drill two (2) borings where the driller feels comfortable  
~~if~~ <sup>(AO)</sup> and to contact PT ~~(AO)~~ <sup>(AO)</sup> (JG) when finished

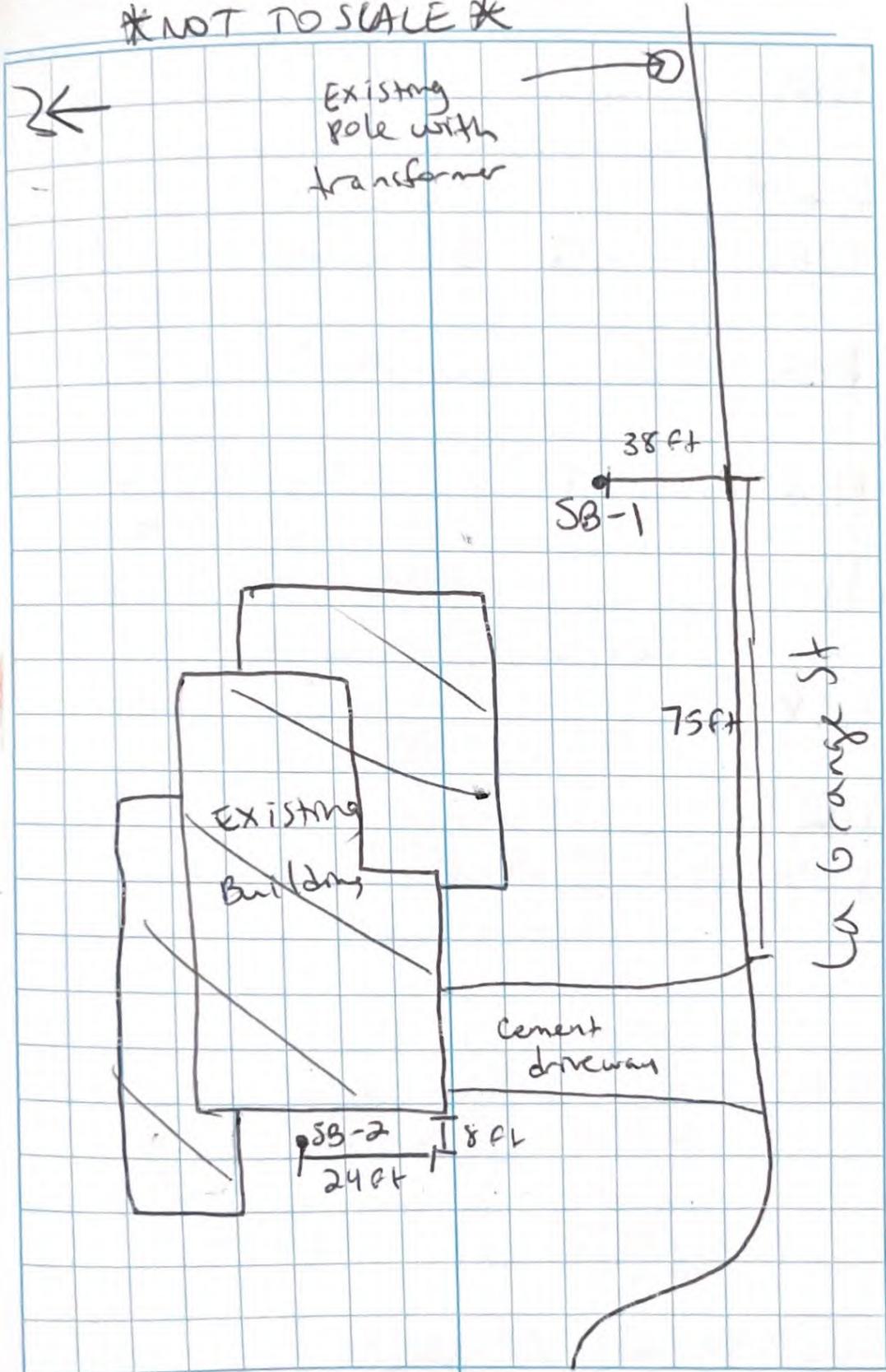
0937 Began drilling SB-1

Location 57 La Grange St

Date 7/8/24

Project / Client 13794-01

**\*NOT TO SCALE\***



Location 57 La Grange StDate 7/8/24Project / Client 13794-01

- 1025 Sampled SB-1 <sup>@ 10.0 ft bgs</sup> (3) 802 jars  
to 1035 Red-brown silty clay, some  
~~1040~~ gravel, trace sand
- 1040 Sampled SB-1 <sup>(A)</sup> Grab - Encore kit  
@ 10.0 ft bgs
- 1035 Began drilling SB-2
- 1112 Sampled SB-2 <sup>(A)</sup> Grab - Encore kit  
@ 10.0 ft bgs @ 10.0 ft bgs
- 1114 Sampled SB-2 <sup>(B)</sup> (3) 802 jars  
to Red-brown sandy clay,  
1118 trace silt, moist
- ~~1130~~ <sup>(A)</sup> Phoenix on site
- 1130 PT(LAD) relinquished samples  
to Phoenix ~~(LAD)~~ Environmental  
Laboratories, Inc (Omar)
- 1135 PT(LAD) informed PT(JG) that samples were  
1145 Alternate Petroleum Service <sup>relinquished</sup>  
(Tom Schmidt) finished <sup>to</sup>  
loading rig and patching <sup>lab</sup>  
up bearings
- 1150 PT(LAD) off site

**SOIL BORING LOG**

Project: 57 La Grange Street	Boring No.: SB-1
Project No.: 13794-01	Drilling Co.: Alternative Petroleum Services, LLC
Site: 57 La Grange Street, Raritan, NJ 08869	Driller: Tom Schmidt
Staff Engineer: Angela DeVito	Drilling Method: Direct Push
Date: 7/8/2024	Drilling Equip: Geoprobe
Total Boring Depth: 12 feet	Static Water:

GEOLOGIC LOG	Depth (ft)	Blows (6 inches)	Recovery (inches)	PID (ppm)	Sample Depth (ft)
Topsoil	0.0-0.5		36	0.0	
↓	0.5-1.0		↓	↓	
	1.0-1.5		↓	↓	
	1.5-2.0		↓	↓	
Red-brown-gray silty clay	2.0-2.5		↓	↓	
↓ Rust-like discoloration ↓	2.5-3.0		↓	↓	
	3.0-3.5		↓	↓	
	3.5-4.0		↓	↓	
Red-brown-gray silty clay	4.0-4.5		48	↓	
↓	4.5-5.0		↓	↓	SB-1 & SB-6 (S)
	5.0-5.5		↓	↓	
Red-brown medium silty sand, trace gravel, moist	5.5-6.0		↓	↓	
Brown to red-brown clay	6.0-6.5		↓	↓	
	6.5-7.0		↓	↓	
	7.0-7.5		↓	↓	
	7.5-8.0		↓	↓	
Gray clay trace silt	8.0-8.5		48	↓	
Red-brown silty clay, some gravel, trace sand	8.5-9.0		↓	↓	
↓	9.0-9.5		↓	↓	
	9.5-10.0		↓	↓	
	10.0-10.5		↓	↓	
	10.5-11.0		↓	↓	
	11.0-11.5		↓	↓	
	11.5-12.0		↓	↓	
	12.0-12.5				
	12.5-13.0				
	13.0-13.5				
	13.5-14.0				
	14.0-14.5				
	14.5-15.0				

NA Not available  
 NC Not Collected

**SOIL BORING LOG**

Project: 57 La Grange Street	Boring No.: SB-2
Project No.: 13794-0P	Drilling Co.: Alternative Petroleum Services, LLC
Site: 57 La Grange Street, Raritan, NJ 08869	Driller: Tom Schmidt
Staff Engineer: Angela DeVito	Drilling Method: Direct Push
Date: 7/18/2024	Drilling Equip: Geoprobe
Total Boring Depth: 12 feet	Static Water:

GEOLOGIC LOG	Depth (ft)	Blows (6 inches)	Recovery (inches)	PID (ppm)	Sample Depth (ft)
Topsoil ↓	0.0-0.5		48	0.0	
Red silty clayey silt ↓	0.5-1.0		↓	↓	
	1.0-1.5		↓	↓	
	1.5-2.0		↓	↓	
	2.0-2.5		↓	↓	
to dark brown Black silty clay ↓	2.5-3.0		↓	↓	
Gray to orange brown silty clay rust-like discoloration ↓	3.0-3.5		↓	↓	
	3.5-4.0		↓	↓	
	4.0-4.5		48	↓	
	4.5-5.0		↓	↓	SB-2 (AD)
	5.0-5.5		↓	↓	Sly 2 sub
	5.5-6.0		↓	↓	
	6.0-6.5		↓	↓	
	6.5-7.0		↓	↓	
Red sandy clay ↓	7.0-7.5		↓	↓	
	7.5-8.0		↓	↓	
Brown to gray-brown silty clay ↓	8.0-8.5		48	0.0	
Red-brown silty clay ↓	8.5-9.0		↓	↓	
	9.0-9.5		↓	↓	
Red-brown sandy clay, trace silt mud ↓	9.5-10.0		↓	↓	
	10.0-10.5		↓	↓	
	10.5-11.0		↓	↓	
	11.0-11.5		↓	↓	
	11.5-12.0		↓	↓	
	12.0-12.5				
	12.5-13.0				
	13.0-13.5				
	13.5-14.0				
	14.0-14.5				
	14.5-15.0				

57 LA GRAY St Date 7/15/24

/ Client 13794-01

## Depletion Soil Sample

10:15 Startable Digging on site. Weather is sunny and hot

Scope: collect 2 soil depletion sample from hand Auger at S17 (bgs.)

10:20 started Marking locations based on previous sampling location

10:25 both locations marked

10:27 start Augering

10:45 collect SBD-1 at 4.5-5.0 ft bgs

10:55 start Augering SBD-2

11:15 collect sample SBD-2 from 4.5-5.0 ft bgs

11:30 PT off site.

The manufacturers of *Rite in the Rain* all-weather writing products are grateful to the numerous environmental experts who have contributed to the development of this book. Should you have any additions, improvements or corrections for future publications of this field book or have suggestions for other environmental field book formats, we welcome your input.

Although much effort has been taken to ensure the accuracy of the following reference pages, JL Darling LLC cannot guarantee the accuracy of the data.

To provide input or solicit pricing on these or custom printed field books, contact your *Rite in the Rain* dealer or JL Darling LLC, 253-922-5000 or fax 253-922-5300.

[www.RiteintheRain.com](http://www.RiteintheRain.com) / [sales@riteintherain.com](mailto:sales@riteintherain.com)

### Common Field Data Error Codes

Error codes are used to explain common mistakes and are written above or close to the mistake.

Commonly used error codes include:

RE Recording Error  
 CE Calculation Error  
 TE Transcription Error  
 SE Spelling Error  
 CL Changed for Clarity  
 DC Original Sample Description Changed After Further Evaluation  
 WO Write Over  
 NI Not Initialed and Dated at Time of Entry  
 OB Not Recorded at the Time of Initial Observation

Note: Error code should be circled, dated, and initialed when recorded.

### Hazard Classifications

Class 1 Explosives  
 Class 2 Gas  
 Class 3 Flammable Liquid  
 Class 4 Flammable Solids (Potential spontaneous combustion, or emission of flammable gases when in contact with water)  
 Class 5 Oxidizing Substances and Organic Peroxides  
 Class 6 Toxic (poisonous) and infectious substances  
 Class 7 Radioactive material  
 Class 8 Corrosives  
 Class 9 Miscellaneous dangerous goods

### Container type abbreviations (for sampling guidelines)

BR - Boston Round • ABR - Amber Boston Round • AJ - Amber Jug • AWM - Amber Wide Mouth • Poly - Polyethylene Bottles • BOD - Bottle • CWM - Clear Wide Mouth

**SOIL BORING LOG**

Project: 57 LA GARAYLE ST	Soil Boring No.: SB/D - 1
Project No.: 13794-01	Drilling Co.:
Site: 57 LA GARAYLE ST	Driller:
Geologist: SD	Method: HAND AUGER
Date: 7/15/2024	Equip:
Total Boring Depth: 5 feet	Static Water:

GEOLOGIC LOG	Depth (ft)	Comments	Recovery (inches)	PID (ppm)	Sample Depth (ft)
Top Grass	0.0-0.5	↓	5ft	0.00	
Reddish Soil with base soil	0.5-1.0				
↓	1.0-1.5				
	1.5-2.0				
Reddish soil with stones (small)	2.0-2.5				
(loose soil)	2.5-3.0				
↓	3.0-3.5				
	3.5-4.0				
Reddish brown soil, compacted	4.0-4.5				
stones	4.5-5.0			↓	
	5.0-5.5				
	5.5-6.0				
Collected sample at	6.0-6.5				
4.6-5.0 ft bys	6.5-7.0				
at 10:45	7.0-7.5				
	7.5-8.0				
	8.0-8.5				
	8.5-9.0				
	9.0-9.5				
	9.5-10.0				
	10.0-10.5				
	10.5-11.0				
	11.0-11.5				
	11.5-12.0				
	12.0-12.5				
	12.5-13.0				
	13.0-13.5				
	13.5-14.0				
	14.0-14.5				
	14.5-15.0				

Sample @ time  
 Sample @ feet bgs  
 because:

NA : Not available  
 NC: Not Collected

**SOIL BORING LOG**

Project: <b>57 LA GRAYLE ST</b>	Soil Boring No.: <b>SBD-2</b>
Project No.: <b>13794-01</b>	Drilling Co.:
Site: <b>57 LA GRAYLE ST</b>	Driller:
Geologist: <b>SD</b>	Method: <b>Hand Auger</b>
Date: <b>7/15/2024</b>	Equip:
Total Boring Depth: <b>5</b> feet	Static Water:

GEOLOGIC LOG	Depth (ft)	Comments	Recovery (inches)	PID (ppm)	Sample Depth (ft)
Top Grass	0.0-0.5	↓	5 ft	0.00	
Reddish soil, loose, no stains	0.5-1.0				
↓	1.0-1.5				
Reddish soil, loose, stones (small)	1.5-2.0				
↓	2.0-2.5				
↓	2.5-3.0				
↓	3.0-3.5				
Reddish soil, compacted, stones (small)	3.5-4.0				
↓	4.0-4.5				
↓	4.5-5.0				
↓	5.0-5.5				
↓	5.5-6.0				
↓	6.0-6.5				
↓	6.5-7.0				
↓	7.0-7.5				
↓	7.5-8.0				
↓	8.0-8.5				
↓	8.5-9.0				
↓	9.0-9.5				
↓	9.5-10.0				
↓	10.0-10.5				
↓	10.5-11.0				
↓	11.0-11.5				
↓	11.5-12.0				
↓	12.0-12.5				
↓	12.5-13.0				
↓	13.0-13.5				
↓	13.5-14.0				
↓	14.0-14.5				
↓	14.5-15.0				

Collected Sample at  
4.5-5.0 ft bgs at  
11:15

Sample @ time  
Sample @ feet bgs  
because:

NA : Not available  
NC: Not Collected

**ATTACHMENT 3**

**LABORATORY ANALYTICAL DATA PACKAGE –  
GCR19396**



Tuesday, July 30, 2024

Attn: Justin Garcia  
PT Consultants, Inc.  
560 Benigno Blvd, 2nd Fl  
Bellmawr, NJ 08031

Project ID: 57 2A ORANGE ST  
SDG ID: GCR19396  
Sample ID#s: CR19396 - CR19397

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. 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.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style with a large initial "P".

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



**NEW JERSEY REDUCED DELIVERABLES  
DATA PACKAGE**

**Client:**

**Project: 57 2A ORANGE ST**

**Laboratory Project: GCR19396**



**Environmental Laboratories, Inc.**  
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Tel. (860) 645-1102 Fax (860) 645-0823



# Reduced Deliverables Format

July 30, 2024

SDG I.D.: GCR19396

57 2A ORANGE ST

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## Methodology Summary

### **Accelerated Solvent Extraction (ASE)**

Soil Sample - USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update III, Method 3545A.

### **Mercury Prep**

Soil Sample - USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 7471B.

### **Metals**

ICP :  
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 6010D.  
Mercury:  
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, 7471B

### **NJ EPH - Ranges / Target Compounds**

NJDEP Environmental Laboratory Certification Programs EPH Method 10/08, Rev. 3.

### **Pesticides:**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8081B.

### **Polychlorinated Biphenyls (PCBs):**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 8082A.

### **Semivolatile Organic Compounds**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update VI, June 2018, Method 8270E.

### **Total Cyanide**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update IV, Method 9010B and SW9012B

### **Volatile Organic Compounds:**

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed. Update III, Method 8260D and Environmental Protection Agency, EPA-600/4-79-020, Revised March 1983 (Methods



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## Reduced Deliverables Format

July 30, 2024

SDG I.D.: GCR19396

57 2A ORANGE ST

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624) as printed in 40CFR part 136.



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# Reduced Deliverables Format

July 30, 2024

SDG I.D.: GCR19396

57 2A ORANGE ST

## Laboratory Chronicle

The samples in this delivery group were received at 2.9°C.

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CR19396	Aluminum	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Antimony	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Arsenic	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Barium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Beryllium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Cadmium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Calcium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Chromium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Cobalt	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Copper	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Iron	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Lead	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Magnesium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Manganese	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Mercury	07/15/24	07/19/24	07/19/24	AL1	Y
CR19396	Nickel	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Percent Solid	07/15/24	07/16/24	07/16/24	CV	Y
CR19396	Polynuclear Aromatic HC	07/15/24	07/20/24	07/20/24	MR	Y
CR19396	Potassium	07/15/24	07/17/24	07/18/24	TH	Y
CR19396	Selenium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Silver	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Sodium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Thallium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Vanadium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19396	Zinc	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	1,4-dioxane	07/15/24	07/24/24	07/24/24	JLI	Y
CR19397	Aluminum	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Antimony	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Arsenic	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Barium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Beryllium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Cadmium	07/15/24	07/17/24	07/18/24	CPP	Y



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 Tel. (860) 645-1102 Fax (860) 645-0823



## Reduced Deliverables Format

July 30, 2024

SDG I.D.: GCR19396

57 2A ORANGE ST

CR19397	Calcium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Chromium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Cobalt	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Copper	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Iron	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Lead	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Magnesium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Manganese	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Mercury	07/15/24	07/19/24	07/19/24	AL1	Y
CR19397	Nickel	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	NJ EPH Category 2	07/15/24	07/24/24	07/25/24	JRB	Y
CR19397	Percent Solid	07/15/24	07/16/24	07/16/24	CV	Y
CR19397	Pesticides - Soil	07/15/24	07/23/24	07/24/24	AW	Y
CR19397	Polychlorinated Biphenyls	07/15/24	07/23/24	07/24/24	SC	Y
CR19397	Polynuclear Aromatic HC	07/15/24	07/24/24	07/19/24	MR	Y
CR19397	Potassium	07/15/24	07/17/24	07/18/24	TH	Y
CR19397	Selenium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Semivolatiles	07/15/24	07/24/24	07/26/24	MR	Y
CR19397	Silver	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Sodium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Thallium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Total Cyanide (SW9010C Distill.)	07/15/24	07/26/24	07/26/24	D/K/G	Y
CR19397	Vanadium	07/15/24	07/17/24	07/18/24	CPP	Y
CR19397	Volatiles	07/15/24	07/24/24	07/24/24	JLI	Y
CR19397	Zinc	07/15/24	07/17/24	07/18/24	CPP	Y



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## SDG Comments

July 30, 2024

SDG I.D.: GCR19396

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Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus forms.

Version 2: Per client request additional analyses were added on.

Version 3: Complete report with QC and forms.



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Tel. (860) 645-1102 Fax (860) 645-0823



## Sample Id Cross Reference

July 30, 2024

SDG I.D.: GCR19396

Project ID: 57 2A ORANGE ST

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Client Id	Lab Id	Matrix
SBD-1	CR19396	SOIL
SBD-2	CR19397	SOIL



**Environmental Laboratories, Inc.**

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



# Analysis Report

July 30, 2024

FOR: Attn: Justin Garcia  
 PT Consultants, Inc.  
 560 Benigno Blvd, 2nd Fl  
 Bellmawr, NJ 08031

Sample Information

Matrix: SOIL  
 Location Code: PTCONS  
 Rush Request: Standard  
 P.O.#: 13794-01

Custody Information

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

Date                      Time  
 07/15/24                      10:45  
 07/16/24                      16:55

## Laboratory Data

SDG ID: GCR19396  
 Phoenix ID: CR19396

Project ID: 57 2A ORANGE ST  
 Client ID: SBD-1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.35	0.35	mg/Kg	1	07/18/24	CPP	SW6010D
Aluminum	17900	52	6.9	mg/Kg	10	07/18/24	CPP	SW6010D
Arsenic	3.15	0.69	0.69	mg/Kg	1	07/18/24	CPP	SW6010D
Barium	117	* 0.35	0.35	mg/Kg	1	07/18/24	CPP	SW6010D
Beryllium	1.05	0.28	0.14	mg/Kg	1	07/18/24	CPP	SW6010D
Calcium	2190	5.2	3.2	mg/Kg	1	07/18/24	CPP	SW6010D
Cadmium	ND	0.35	0.35	mg/Kg	1	07/18/24	CPP	SW6010D
Cobalt	12.9	0.35	0.35	mg/Kg	1	07/18/24	CPP	SW6010D
Chromium	27.8	0.35	0.35	mg/Kg	1	07/18/24	CPP	SW6010D
Copper	17.3	0.7	0.35	mg/kg	1	07/18/24	CPP	SW6010D
Iron	30400	52	35	mg/Kg	10	07/18/24	CPP	SW6010D
Mercury	ND	0.03	0.02	mg/Kg	2	07/19/24	AL1	SW7471B
Potassium	2180	N 52	27	mg/Kg	10	07/18/24	TH	SW6010D
Magnesium	6010	52	35	mg/Kg	10	07/18/24	CPP	SW6010D
Manganese	307	0.35	0.35	mg/Kg	1	07/18/24	CPP	SW6010D
Sodium	308	* 5.2	3.0	mg/Kg	1	07/18/24	CPP	SW6010D
Nickel	26.0	0.35	0.35	mg/Kg	1	07/18/24	CPP	SW6010D
Lead	22.5	0.35	0.35	mg/Kg	1	07/18/24	CPP	SW6010D
Antimony	ND	3.5	3.5	mg/Kg	1	07/18/24	CPP	SW6010D
Selenium	ND	3	1.2	mg/Kg	1	07/18/24	CPP	SW6010D
Thallium	ND	3.1	1.4	mg/Kg	1	07/18/24	CPP	SW6010D
Vanadium	39.2	0.35	0.35	mg/Kg	1	07/18/24	CPP	SW6010D
Zinc	77.6	0.7	0.35	mg/Kg	1	07/18/24	CPP	SW6010D
Percent Solid	89			%		07/16/24	CV	SW846-%Solid
Mercury Digestion	Completed					07/19/24	AK/AK	SW7471B
Total Metals Digest	Completed					07/17/24	J/AG	SW3050B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<b><u>Polynuclear Aromatic HC</u></b>								
2-Methylnaphthalene	ND	0.37	0.11	mg/Kg	1	07/20/24	MR	SW8270E
Acenaphthene	ND	0.37	0.11	mg/Kg	1	07/20/24	MR	SW8270E
Acenaphthylene	ND	0.37	0.1	mg/Kg	1	07/20/24	MR	SW8270E
Anthracene	ND	0.37	0.12	mg/Kg	1	07/20/24	MR	SW8270E
Benz(a)anthracene	ND	0.37	0.13	mg/Kg	1	07/20/24	MR	SW8270E
Benzo(a)pyrene	ND	0.37	0.12	mg/Kg	1	07/20/24	MR	SW8270E
Benzo(b)fluoranthene	ND	0.37	0.13	mg/Kg	1	07/20/24	MR	SW8270E
Benzo(ghi)perylene	0.16	J 0.37	0.12	mg/Kg	1	07/20/24	MR	SW8270E
Benzo(k)fluoranthene	ND	0.37	0.12	mg/Kg	1	07/20/24	MR	SW8270E
Chrysene	ND	0.37	0.13	mg/Kg	1	07/20/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	0.37	0.12	mg/Kg	1	07/20/24	MR	SW8270E
Fluoranthene	ND	0.37	0.12	mg/Kg	1	07/20/24	MR	SW8270E
Fluorene	ND	0.37	0.12	mg/Kg	1	07/20/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	0.37	0.12	mg/Kg	1	07/20/24	MR	SW8270E
Naphthalene	ND	0.37	0.11	mg/Kg	1	07/20/24	MR	SW8270E
Phenanthrene	ND	0.37	0.11	mg/Kg	1	07/20/24	MR	SW8270E
Pyrene	ND	0.37	0.13	mg/Kg	1	07/20/24	MR	SW8270E
<b><u>QA/QC Surrogates</u></b>								
% 2-Fluorobiphenyl	80			%	1	07/20/24	MR	30 - 130 %
% Nitrobenzene-d5	97			%	1	07/20/24	MR	30 - 130 %
% Terphenyl-d14	98			%	1	07/20/24	MR	30 - 130 %

B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1  
 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:**

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**

**July 30, 2024**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.

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



Analysis Report

July 30, 2024

FOR: Attn: Justin Garcia
PT Consultants, Inc.
560 Benigno Blvd, 2nd Fl
Bellmawr, NJ 08031

Sample Information

Matrix: SOIL
Location Code: PTCONS
Rush Request: Standard
P.O.#: 13794-01

Custody Information

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

Date Time
07/15/24 11:15
07/16/24 16:55

Laboratory Data

SDG ID: GCR19396
Phoenix ID: CR19397

Project ID: 57 2A ORANGE ST
Client ID: SBD-2

Table with columns: Parameter, Result, RL/PQL, LOD/MDL, Units, Dilution, Date/Time, By, Reference. Lists various elements like Silver, Aluminum, Arsenic, etc., with their respective results and detection limits.

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for PCB	Completed					07/23/24	H/X	SW3545A
Soil Extraction for Pesticide	Completed					07/23/24	H/X	SW3545A
Soil Extraction for SVOA	Completed					07/24/24	GW/GW	SW3545A
Total Metals Digest	Completed					07/17/24	J/AG	SW3050B

**NJ EPH Category 2**

Total EPH (C9-C40)	150	26	26	mg/kg	1	07/25/24	JRB	NJEPH 10-08 R3 1
<b><u>QA/QC Surrogates</u></b>								
% COD (surr)	55			%	1	07/25/24	JRB	40 - 140 %
% Terphenyl (surr)	75			%	1	07/25/24	JRB	40 - 140 %

**Polychlorinated Biphenyls**

PCB-1016	ND	0.072	0.072	mg/Kg	2	07/24/24	SC	SW8082A
PCB-1221	ND	0.072	0.072	mg/Kg	2	07/24/24	SC	SW8082A
PCB-1232	ND	0.072	0.072	mg/Kg	2	07/24/24	SC	SW8082A
PCB-1242	ND	0.072	0.072	mg/Kg	2	07/24/24	SC	SW8082A
PCB-1248	ND	0.072	0.072	mg/Kg	2	07/24/24	SC	SW8082A
PCB-1254	ND	0.072	0.072	mg/Kg	2	07/24/24	SC	SW8082A
PCB-1260	ND	0.072	0.072	mg/Kg	2	07/24/24	SC	SW8082A
PCB-1262	ND	0.072	0.072	mg/Kg	2	07/24/24	SC	SW8082A
PCB-1268	ND	0.072	0.072	mg/Kg	2	07/24/24	SC	SW8082A

**QA/QC Surrogates**

% DCBP	80			%	2	07/24/24	SC	30 - 150 %
% DCBP (Confirmation)	78			%	2	07/24/24	SC	30 - 150 %
% TCMX	75			%	2	07/24/24	SC	30 - 150 %
% TCMX (Confirmation)	69			%	2	07/24/24	SC	30 - 150 %

**Pesticides - Soil**

4,4' -DDD	ND	0.0021	0.0021	mg/Kg	2	07/24/24	AW	SW8081B
4,4' -DDE	ND	0.0021	0.0021	mg/Kg	2	07/24/24	AW	SW8081B
4,4' -DDT	ND	0.0021	0.0021	mg/Kg	2	07/24/24	AW	SW8081B
a-BHC	ND	0.0014	0.0014	mg/Kg	2	07/24/24	AW	SW8081B
a-Chlordane	ND	0.0036	0.0036	mg/Kg	2	07/24/24	AW	SW8081B
Alachlor	ND	0.0036	0.0036	mg/Kg	2	07/24/24	AW	SW8081B
Aldrin	ND	0.0036	0.0036	mg/Kg	2	07/24/24	AW	SW8081B
b-BHC	ND	0.0014	0.0014	mg/Kg	2	07/24/24	AW	SW8081B
Chlordane	ND	0.036	0.036	mg/Kg	2	07/24/24	AW	SW8081B
d-BHC	ND	0.0072	0.0072	mg/Kg	2	07/24/24	AW	SW8081B
Dieldrin	ND	0.0036	0.0036	mg/Kg	2	07/24/24	AW	SW8081B
Endosulfan I	ND	0.0072	0.0072	mg/Kg	2	07/24/24	AW	SW8081B
Endosulfan II	ND	0.0072	0.0072	mg/Kg	2	07/24/24	AW	SW8081B
Endosulfan sulfate	ND	0.0072	0.0072	mg/Kg	2	07/24/24	AW	SW8081B
Endrin	ND	0.0072	0.0072	mg/Kg	2	07/24/24	AW	SW8081B
Endrin aldehyde	ND	0.0072	0.0072	mg/Kg	2	07/24/24	AW	SW8081B
Endrin ketone	ND	0.0072	0.0072	mg/Kg	2	07/24/24	AW	SW8081B
g-BHC	ND	0.0014	0.0014	mg/Kg	2	07/24/24	AW	SW8081B
g-Chlordane	ND	0.0036	0.0036	mg/Kg	2	07/24/24	AW	SW8081B
Heptachlor	ND	0.0072	0.0072	mg/Kg	2	07/24/24	AW	SW8081B
Heptachlor epoxide	ND	0.0072	0.0072	mg/Kg	2	07/24/24	AW	SW8081B
Methoxychlor	ND	0.036	0.036	mg/Kg	2	07/24/24	AW	SW8081B

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Toxaphene	ND	0.14	0.14	mg/Kg	2	07/24/24	AW	SW8081B
<b><u>QA/QC Surrogates</u></b>								
% DCBP	75			%	2	07/24/24	AW	30 - 150 %
% DCBP (Confirmation)	94			%	2	07/24/24	AW	30 - 150 %
% TCMX	65			%	2	07/24/24	AW	30 - 150 %
% TCMX (Confirmation)	78			%	2	07/24/24	AW	30 - 150 %
<b><u>1,4-dioxane</u></b>								
1,4-dioxane	ND	0.063	0.033	mg/Kg	1	07/24/24	JLI	SW8260D
<b><u>Volatiles</u></b>								
1,1,1-Trichloroethane	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
1,1-Dichloroethane	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
1,1-Dichloroethene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
1,2-Dichloroethane	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
1,2-Dichloropropane	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
2-Hexanone	ND	0.021	0.0042	mg/Kg	1	07/24/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	0.021	0.0042	mg/Kg	1	07/24/24	JLI	SW8260D
Acetone	ND	0.021	0.0042	mg/Kg	1	07/24/24	JLI	SW8260D
Benzene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Bromochloromethane	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Bromodichloromethane	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
Bromoform	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
Bromomethane	ND	0.0042	0.0017	mg/Kg	1	07/24/24	JLI	SW8260D
Carbon Disulfide	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
Carbon tetrachloride	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
Chlorobenzene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Chloroethane	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Chloroform	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Chloromethane	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Cyclohexane	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
Dibromochloromethane	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
Dichlorodifluoromethane	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Ethylbenzene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Isopropylbenzene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
m&p-Xylene	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
Methyl ethyl ketone	ND	0.025	0.0042	mg/Kg	1	07/24/24	JLI	SW8260D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Methyl t-butyl ether (MTBE)	ND	0.0084	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
Methylacetate	ND	0.0042	0.0042	mg/Kg	1	07/24/24	JLI	SW8260D
Methylcyclohexane	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
Methylene chloride	ND	0.0042	0.0042	mg/Kg	1	07/24/24	JLI	SW8260D
o-Xylene	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
Styrene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Tetrachloroethene	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
Toluene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Total Xylenes	ND	0.0042	0.0042	mg/Kg	1	07/24/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Trichloroethene	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Trichlorofluoromethane	ND	0.0042	0.00084	mg/Kg	1	07/24/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
Vinyl chloride	ND	0.0042	0.00042	mg/Kg	1	07/24/24	JLI	SW8260D
<b><u>QA/QC Surrogates</u></b>								
% 1,2-dichlorobenzene-d4	99			%	1	07/24/24	JLI	70 - 130 %
% Bromofluorobenzene	98			%	1	07/24/24	JLI	70 - 130 %
% Dibromofluoromethane	105			%	1	07/24/24	JLI	70 - 130 %
% Toluene-d8	93			%	1	07/24/24	JLI	70 - 130 %
Volatile Library Search Top 10 Completed						07/24/24	JLI	
<b><u>Polynuclear Aromatic HC</u></b>								
2-Methylnaphthalene	ND	0.35	0.11	mg/Kg	1	07/19/24	MR	SW8270E
Acenaphthene	0.43	0.35	0.11	mg/Kg	1	07/19/24	MR	SW8270E
Acenaphthylene	0.14	J 0.35	0.099	mg/Kg	1	07/19/24	MR	SW8270E
Anthracene	1.1	0.35	0.12	mg/Kg	1	07/19/24	MR	SW8270E
Benz(a)anthracene	3	0.35	0.12	mg/Kg	1	07/19/24	MR	SW8270E
Benzo(a)pyrene	3.1	0.35	0.11	mg/Kg	1	07/19/24	MR	SW8270E
Benzo(b)fluoranthene	3.7	0.35	0.12	mg/Kg	1	07/19/24	MR	SW8270E
Benzo(ghi)perylene	1.7	0.35	0.11	mg/Kg	1	07/19/24	MR	SW8270E
Benzo(k)fluoranthene	1.3	0.35	0.12	mg/Kg	1	07/19/24	MR	SW8270E
Chrysene	2.7	0.35	0.12	mg/Kg	1	07/19/24	MR	SW8270E
Dibenz(a,h)anthracene	0.41	0.35	0.11	mg/Kg	1	07/19/24	MR	SW8270E
Fluoranthene	5.8	0.35	0.11	mg/Kg	1	07/19/24	MR	SW8270E
Fluorene	0.44	0.35	0.12	mg/Kg	1	07/19/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	1.8	0.35	0.12	mg/Kg	1	07/19/24	MR	SW8270E
Naphthalene	ND	0.35	0.1	mg/Kg	1	07/19/24	MR	SW8270E
Phenanthrene	4	0.35	0.1	mg/Kg	1	07/19/24	MR	SW8270E
Pyrene	5	0.35	0.12	mg/Kg	1	07/19/24	MR	SW8270E
<b><u>QA/QC Surrogates</u></b>								
% 2-Fluorobiphenyl	71			%	1	07/19/24	MR	30 - 130 %
% Nitrobenzene-d5	81			%	1	07/19/24	MR	30 - 130 %
% Terphenyl-d14	81			%	1	07/19/24	MR	30 - 130 %
<b><u>Semivolatiles</u></b>								
1,1-Biphenyl	ND	0.25	0.11	mg/Kg	1	07/26/24	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	0.25	0.12	mg/Kg	1	07/26/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	0.25	0.098	mg/Kg	1	07/26/24	MR	SW8270E

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,3,4,6-tetrachlorophenol	ND	0.25	0.16	mg/Kg	1	07/26/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	0.25	0.19	mg/Kg	1	07/26/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	0.14	0.11	mg/Kg	1	07/26/24	MR	SW8270E
2,4-Dichlorophenol	ND	0.14	0.12	mg/Kg	1	07/26/24	MR	SW8270E
2,4-Dimethylphenol	ND	0.25	0.087	mg/Kg	1	07/26/24	MR	SW8270E
2,4-Dinitrophenol	ND	0.25	0.25	mg/Kg	1	07/26/24	MR	SW8270E
2,4-Dinitrotoluene	ND	0.14	0.14	mg/Kg	1	07/26/24	MR	SW8270E
2,6-Dinitrotoluene	ND	0.14	0.11	mg/Kg	1	07/26/24	MR	SW8270E
2-Chloronaphthalene	ND	0.25	0.1	mg/Kg	1	07/26/24	MR	SW8270E
2-Chlorophenol	ND	0.25	0.1	mg/Kg	1	07/26/24	MR	SW8270E
2-Methylnaphthalene	ND	0.25	0.1	mg/Kg	1	07/26/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	0.25	0.17	mg/Kg	1	07/26/24	MR	SW8270E
2-Nitroaniline	ND	0.25	0.25	mg/Kg	1	07/26/24	MR	SW8270E
2-Nitrophenol	ND	0.25	0.22	mg/Kg	1	07/26/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	0.25	0.14	mg/Kg	1	07/26/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	0.14	0.14	mg/Kg	1	07/26/24	MR	SW8270E
3-Nitroaniline	ND	0.7	0.25	mg/Kg	1	07/26/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	0.25	0.25	mg/Kg	1	07/26/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	0.25	0.1	mg/Kg	1	07/26/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	0.25	0.12	mg/Kg	1	07/26/24	MR	SW8270E
4-Chloroaniline	ND	0.23	0.16	mg/Kg	1	07/26/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	0.25	0.12	mg/Kg	1	07/26/24	MR	SW8270E
4-Nitroaniline	ND	1.8	0.12	mg/Kg	1	07/26/24	MR	SW8270E
4-Nitrophenol	ND	0.25	0.16	mg/Kg	1	07/26/24	MR	SW8270E
Acenaphthene	0.35	0.25	0.11	mg/Kg	1	07/26/24	MR	SW8270E
Acenaphthylene	0.1	J 0.14	0.098	mg/Kg	1	07/26/24	MR	SW8270E
Acetophenone	ND	0.25	0.11	mg/Kg	1	07/26/24	MR	SW8270E
Anthracene	0.9	0.25	0.12	mg/Kg	1	07/26/24	MR	SW8270E
Atrazine	ND	0.25	0.091	mg/Kg	1	07/26/24	MR	SW8270E
Benz(a)anthracene	3.1	0.25	0.12	mg/Kg	1	07/26/24	MR	SW8270E
Benzaldehyde	ND	0.25	0.1	mg/Kg	1	07/26/24	MR	SW8270E
Benzo(a)pyrene	2.9	0.14	0.11	mg/Kg	1	07/26/24	MR	SW8270E
Benzo(b)fluoranthene	3.6	0.25	0.12	mg/Kg	1	07/26/24	MR	SW8270E
Benzo(ghi)perylene	1.8	0.25	0.11	mg/Kg	1	07/26/24	MR	SW8270E
Benzo(k)fluoranthene	1.3	0.25	0.12	mg/Kg	1	07/26/24	MR	SW8270E
Benzyl butyl phthalate	ND	0.25	0.091	mg/Kg	1	07/26/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	0.25	0.097	mg/Kg	1	07/26/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	0.14	0.095	mg/Kg	1	07/26/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	0.25	0.1	mg/Kg	1	07/26/24	MR	SW8270E
Caprolactam	ND	0.25	0.25	mg/Kg	1	07/26/24	MR	SW8270E
Carbazole	0.39	0.25	0.18	mg/Kg	1	07/26/24	MR	SW8270E
Chrysene	2.7	0.25	0.12	mg/Kg	1	07/26/24	MR	SW8270E
Dibenz(a,h)anthracene	0.37	0.14	0.11	mg/Kg	1	07/26/24	MR	SW8270E
Dibenzofuran	0.13	J 0.25	0.1	mg/Kg	1	07/26/24	MR	SW8270E
Diethyl phthalate	ND	0.25	0.11	mg/Kg	1	07/26/24	MR	SW8270E
Dimethylphthalate	0.27	0.25	0.11	mg/Kg	1	07/26/24	MR	SW8270E
Di-n-butylphthalate	ND	0.25	0.093	mg/Kg	1	07/26/24	MR	SW8270E
Di-n-octylphthalate	ND	0.25	0.091	mg/Kg	1	07/26/24	MR	SW8270E
Fluoranthene	6.2	0.25	0.11	mg/Kg	1	07/26/24	MR	SW8270E

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Fluorene	0.34	0.25	0.12	mg/Kg	1	07/26/24	MR	SW8270E
Hexachlorobenzene	ND	0.14	0.1	mg/Kg	1	07/26/24	MR	SW8270E
Hexachlorobutadiene	ND	0.17	0.13	mg/Kg	1	07/26/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	0.25	0.11	mg/Kg	1	07/26/24	MR	SW8270E
Hexachloroethane	ND	0.14	0.11	mg/Kg	1	07/26/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	1.9	0.25	0.12	mg/Kg	1	07/26/24	MR	SW8270E
Isophorone	ND	0.14	0.098	mg/Kg	1	07/26/24	MR	SW8270E
Naphthalene	ND	0.25	0.1	mg/Kg	1	07/26/24	MR	SW8270E
Nitrobenzene	ND	0.14	0.12	mg/Kg	1	07/26/24	MR	SW8270E
N-Nitrosodimethylamine	ND	0.25	0.099	mg/Kg	1	07/26/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	0.14	0.11	mg/Kg	1	07/26/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	0.14	0.13	mg/Kg	1	07/26/24	MR	SW8270E
Pentachlorophenol	ND	0.25	0.13	mg/Kg	1	07/26/24	MR	SW8270E
Phenanthrene	4.1	0.14	0.1	mg/Kg	1	07/26/24	MR	SW8270E
Phenol	ND	0.25	0.11	mg/Kg	1	07/26/24	MR	SW8270E
Pyrene	5.2	0.25	0.12	mg/Kg	1	07/26/24	MR	SW8270E
<b>QA/QC Surrogates</b>								
% 2,4,6-Tribromophenol	73			%	1	07/26/24	MR	30 - 130 %
% 2-Fluorobiphenyl	74			%	1	07/26/24	MR	30 - 130 %
% 2-Fluorophenol	60			%	1	07/26/24	MR	30 - 130 %
% Nitrobenzene-d5	68			%	1	07/26/24	MR	30 - 130 %
% Phenol-d5	63			%	1	07/26/24	MR	30 - 130 %
% Terphenyl-d14	85			%	1	07/26/24	MR	30 - 130 %
SVOA Library Search Top 15	Completed					07/26/24	MR	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1

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:**

Semi-Volatile Comment:

To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

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**

**July 30, 2024**

**Reviewed and Released by: Rashmi Makol, Project Manager**









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



# QA/QC Report

July 30, 2024

## QA/QC Data

SDG I.D.: GCR19396

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 740986 (mg/kg), QC Sample No: CR19207 2X (CR19396, CR19397)													
Mercury - Soil	BRL	0.03	0.09	0.10	10.5	99.4	112	11.9	102	116	12.8	70 - 130	30
Comment: Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 740685 (mg/kg), QC Sample No: CR19396 (CR19396, CR19397)													
<u>ICP Metals - Soil</u>													
Aluminum	1.3 J	5.0	17900	20100	11.6	105	105	0.0	NC			75 - 125	30
Antimony	BRL	3.3	<3.5	<3.6	NC	110	109	0.9	76.3			75 - 125	30
Arsenic	BRL	0.67	3.15	3.76	NC	110	106	3.7	95.2			75 - 125	30
Barium	BRL	0.33	117 *	167	35.2	111	108	2.7	122			75 - 125	30
Beryllium	BRL	0.27	1.05	1.13	NC	109	107	1.9	104			75 - 125	30
Cadmium	BRL	0.33	<0.35	<0.36	NC	108	106	1.9	98.5			75 - 125	30
Calcium	BRL	5.0	2190	1930	12.6	114	112	1.8	NC			75 - 125	30
Chromium	BRL	0.33	27.8	29.9	7.30	112	110	1.8	109			75 - 125	30
Cobalt	BRL	0.33	12.9	14.7	13.0	110	108	1.8	103			75 - 125	30
Copper	BRL	0.67	17.3	18.7	7.80	109	106	2.8	110			75 - 125	30
Iron	BRL	5.0	30400	34100	11.5	113	113	0.0	NC			75 - 125	30
Lead	BRL	0.33	22.5	23.7	5.20	108	108	0.0	103			75 - 125	30
Magnesium	BRL	5.0	6010	7010	15.4	105	104	1.0	NC			75 - 125	30
Manganese	BRL	0.33	307	329	6.90	106	108	1.9	NC			75 - 125	30
Nickel	BRL	0.33	26.0	28.3	8.50	114	111	2.7	102			75 - 125	30
Potassium	BRL	5.0	2180 N	2760	23.5	110	107	2.8	>130			75 - 125	30
Selenium	BRL	1.3	<3	<3	NC	104	102	1.9	86.8			75 - 125	30
Silver	BRL	0.33	<0.35	<0.36	NC	114	112	1.8	100			75 - 125	30
Sodium	BRL	5.0	308 *	161	62.7	111	106	4.6	99.4			75 - 125	30
Thallium	BRL	3.0	<3.1	<3.2	NC	115	112	2.6	101			75 - 125	30
Vanadium	BRL	0.33	39.2	44.3	12.2	110	108	1.8	116			75 - 125	30
Zinc	BRL	0.67	77.6	89.0	13.7	115	110	4.4	107			75 - 125	30

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



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# QA/QC Report

July 30, 2024

## QA/QC Data

SDG I.D.: GCR19396

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 741818 (mg/Kg), QC Sample No: CR24960 50X (CR19397)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.58	<0.58	NC	115			103			80 - 120	30



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# QA/QC Report

July 30, 2024

## QA/QC Data

SDG I.D.: GCR19396

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 741712 (mg/kg), QC Sample No: CR19397 (CR19397)										
<u>Extractable Petroleum Hydrocarbons - Soil</u>										
Total EPH (C9-C40)	ND	10	102	99	3.0	92	98	6.3	40 - 140	25
C9 - Nonane	ND	3.3	89	85	4.6	74	78	5.3	40 - 140	25
C10 - Decane	ND	3.3	95	90	5.4	81	86	6.0	40 - 140	25
C12 - Dodecane	ND	3.3	101	96	5.1	89	92	3.3	40 - 140	25
C14 - Tetradecane	ND	3.3	105	98	6.9	92	97	5.3	40 - 140	25
C16 - Hexadecane	ND	3.3	109	101	7.6	93	100	7.3	40 - 140	25
C18 - Octadecane	ND	3.3	125	115	8.3	93	95	2.1	40 - 140	25
C20 - Eicosane	ND	3.3	98	109	10.6	64	67	4.6	40 - 140	25
C21 - Heneicosane	ND	3.3	101	99	2.0	144	141	2.1	40 - 140	25 m
C22 - Docosane	ND	3.3	121	116	4.2	92	109	16.9	40 - 140	25
C24 - Tetracosane	ND	3.3	105	102	2.9	89	94	5.5	40 - 140	25
C26 - Hexacosane	ND	3.3	104	101	2.9	84	98	15.4	40 - 140	25
C28 - Octacosane	ND	3.3	106	103	2.9	158	188	17.3	40 - 140	25 m
C30 - Tricotane	ND	3.3	107	103	3.8	84	92	9.1	40 - 140	25
C32 - Dotriacontane	ND	3.3	102	100	2.0	97	79	20.5	40 - 140	25
C34 - Tetratriacontane	ND	3.3	98	98	0.0	82	89	8.2	40 - 140	25
C36 - Hexatriacontane	ND	3.3	92	94	2.2	118	139	16.3	40 - 140	25
C38 - Octatriacontane	ND	3.3	89	90	1.1	70	75	6.9	40 - 140	25
C40 - Tetracontane	ND	3.3	85	89	4.6	69	65	6.0	40 - 140	25
% COD (surr)	91	%	115	106	8.1	51	47	8.2	40 - 140	25
% Terphenyl (surr)	103	%	107	99	7.8	66	96	37.0	40 - 140	25 r

Comment:

Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%

QA/QC Batch 741488 (mg/Kg), QC Sample No: CR19397 2X (CR19397)

### Polychlorinated Biphenyls - Soil

PCB-1016	ND	0.033	79	72	9.3	90	84	6.9	40 - 140	30
PCB-1221	ND	0.033							40 - 140	30
PCB-1232	ND	0.033							40 - 140	30
PCB-1242	ND	0.033							40 - 140	30
PCB-1248	ND	0.033							40 - 140	30
PCB-1254	ND	0.033							40 - 140	30
PCB-1260	ND	0.033	77	68	12.4	84	82	2.4	40 - 140	30
PCB-1262	ND	0.033							40 - 140	30
PCB-1268	ND	0.033							40 - 140	30
% DCBP (Surrogate Rec)	76	%	81	73	10.4	89	87	2.3	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	81	%	85	75	12.5	89	88	1.1	30 - 150	30
% TCMX (Surrogate Rec)	69	%	73	66	10.1	82	80	2.5	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	69	%	76	69	9.7	89	87	2.3	30 - 150	30

## QA/QC Data

SDG I.D.: GCR19396

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 741489 (mg/Kg), QC Sample No: CR19397 2X (CR19397)

### Pesticides - Soil

4,4' -DDD	ND	0.0017	88	99	11.8	89	70	23.9	40 - 140	30
4,4' -DDE	ND	0.0017	89	99	10.6	89	74	18.4	40 - 140	30
4,4' -DDT	ND	0.0017	87	105	18.8	94	90	4.3	40 - 140	30
a-BHC	ND	0.001	93	90	3.3	76	80	5.1	40 - 140	30
a-Chlordane	ND	0.0033	92	98	6.3	87	86	1.2	40 - 140	30
Alachlor	ND	0.0033	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	0.001	93	99	6.3	85	71	17.9	40 - 140	30
b-BHC	ND	0.001	91	90	1.1	80	105	27.0	40 - 140	30
Chlordane	ND	0.033	91	102	11.4	87	85	2.3	40 - 140	30
d-BHC	ND	0.0033	87	90	3.4	74	76	2.7	40 - 140	30
Dieldrin	ND	0.001	93	104	11.2	89	81	9.4	40 - 140	30
Endosulfan I	ND	0.0033	92	100	8.3	88	96	8.7	40 - 140	30
Endosulfan II	ND	0.0033	98	103	5.0	94	88	6.6	40 - 140	30
Endosulfan sulfate	ND	0.0033	91	104	13.3	99	91	8.4	40 - 140	30
Endrin	ND	0.0033	98	103	5.0	90	91	1.1	40 - 140	30
Endrin aldehyde	ND	0.0033	82	91	10.4	79	79	0.0	40 - 140	30
Endrin ketone	ND	0.0033	96	106	9.9	109	98	10.6	40 - 140	30
g-BHC	ND	0.001	101	101	0.0	99	91	8.4	40 - 140	30
g-Chlordane	ND	0.0033	91	102	11.4	87	85	2.3	40 - 140	30
Heptachlor	ND	0.0033	84	95	12.3	79	79	0.0	40 - 140	30
Heptachlor epoxide	ND	0.0033	85	100	16.2	88	84	4.7	40 - 140	30
Methoxychlor	ND	0.0033	80	99	21.2	91	91	0.0	40 - 140	30
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	80	%	83	86	3.6	79	85	7.3	30 - 150	30
% DCBP (Confirmation)	77	%	91	95	4.3	88	79	10.8	30 - 150	30
% TCMX	79	%	85	80	6.1	73	76	4.0	30 - 150	30
% TCMX (Confirmation)	80	%	86	98	13.0	82	69	17.2	30 - 150	30

QA/QC Batch 741081 (mg/Kg), QC Sample No: CR19397 (CR19396, CR19397)

### Polynuclear Aromatic HC - Soil

1,1-Biphenyl	ND	0.23	66	65	1.5	66	71	7.3	30 - 130	30
2-Methylnaphthalene	ND	0.23	72	70	2.8	71	77	8.1	30 - 130	30
Acenaphthene	ND	0.23	75	75	0.0	73	96	27.2	30 - 130	30
Acenaphthylene	ND	0.23	65	66	1.5	64	69	7.5	30 - 130	30
Anthracene	ND	0.23	75	74	1.3	62	92	39.0	30 - 130	30 r
Benz(a)anthracene	ND	0.23	80	79	1.3	NC	NC	NC	30 - 130	30
Benzo(a)pyrene	ND	0.23	83	82	1.2	NC	NC	NC	30 - 130	30
Benzo(b)fluoranthene	ND	0.23	78	77	1.3	NC	NC	NC	30 - 130	30
Benzo(ghi)perylene	ND	0.23	83	83	0.0	61	126	69.5	30 - 130	30 r
Benzo(k)fluoranthene	ND	0.23	75	74	1.3	63	100	45.4	30 - 130	30 r
Chrysene	ND	0.23	73	72	1.4	NC	NC	NC	30 - 130	30
Dibenz(a,h)anthracene	ND	0.23	88	86	2.3	71	92	25.8	30 - 130	30
Fluoranthene	ND	0.23	80	79	1.3	NC	NC	NC	30 - 130	30
Fluorene	ND	0.23	76	76	0.0	72	94	26.5	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	0.23	81	80	1.2	62	132	72.2	30 - 130	30 m,r
Naphthalene	ND	0.23	69	67	2.9	69	77	11.0	30 - 130	30
Nitrobenzene	ND	0.23	78	76	2.6	79	88	10.8	30 - 130	30
Phenanthrene	ND	0.23	73	72	1.4	NC	NC	NC	30 - 130	30
Pyrene	ND	0.23	78	78	0.0	NC	NC	NC	30 - 130	30
% 2-Fluorobiphenyl	72	%	69	70	1.4	70	74	5.6	30 - 130	30
% Nitrobenzene-d5	81	%	75	74	1.3	77	85	9.9	30 - 130	30

## QA/QC Data

SDG I.D.: GCR19396

Parameter	Blank	BIK RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Terphenyl-d14	88	%	82	80	2.5	76	77	1.3	30 - 130	30

Comment:

The laboratory criteria of 30-130% is different than the NJKDQP general criteria of 70-130%. The NJKDQP criteria for problem compounds is 20-160%.

QA/QC Batch 741607 (mg/Kg), QC Sample No: CR25108 (CR19397)

### Semivolatiles - Soil

1,1-Biphenyl	ND	0.23	66	61	7.9	57	67	16.1	30 - 130	30
1,2,4,5-Tetrachlorobenzene	ND	0.23	63	60	4.9	55	65	16.7	30 - 130	30
2,2'-Oxybis(1-Chloropropane)	ND	0.23	46	43	6.7	47	52	10.1	30 - 130	30
2,3,4,6-tetrachlorophenol	ND	0.23	79	82	3.7	47	51	8.2	30 - 130	30
2,4,5-Trichlorophenol	ND	0.23	82	79	3.7	48	55	13.6	30 - 130	30
2,4,6-Trichlorophenol	ND	0.13	85	78	8.6	47	51	8.2	30 - 130	30
2,4-Dichlorophenol	ND	0.13	74	72	2.7	58	65	11.4	30 - 130	30
2,4-Dimethylphenol	ND	0.23	81	79	2.5	86	88	2.3	30 - 130	30
2,4-Dinitrophenol	ND	0.23	36	43	17.7	13	16	20.7	20 - 160	30
2,4-Dinitrotoluene	ND	0.13	83	81	2.4	67	77	13.9	30 - 130	30
2,6-Dinitrotoluene	ND	0.13	82	80	2.5	75	85	12.5	30 - 130	30
2-Chloronaphthalene	ND	0.23	72	67	7.2	62	75	19.0	30 - 130	30
2-Chlorophenol	ND	0.23	62	61	1.6	60	63	4.9	30 - 130	30
2-Methylnaphthalene	ND	0.23	67	64	4.6	61	74	19.3	30 - 130	30
2-Methylphenol (o-cresol)	ND	0.23	68	65	4.5	71	73	2.8	30 - 130	30
2-Nitroaniline	ND	0.33	145	141	2.8	132	147	10.8	30 - 130	30
2-Nitrophenol	ND	0.23	79	75	5.2	55	55	0.0	30 - 130	30
3&4-Methylphenol (m&p-cresol)	ND	0.23	61	63	3.2	65	66	1.5	20 - 160	30
3,3'-Dichlorobenzidine	ND	0.13	98	95	3.1	75	80	6.5	30 - 130	30
3-Nitroaniline	ND	0.33	94	92	2.2	81	87	7.1	30 - 130	30
4,6-Dinitro-2-methylphenol	ND	0.23	74	69	7.0	29	29	0.0	30 - 130	30
4-Bromophenyl phenyl ether	ND	0.23	80	80	0.0	67	82	20.1	30 - 130	30
4-Chloro-3-methylphenol	ND	0.23	80	80	0.0	79	85	7.3	30 - 130	30
4-Chloroaniline	ND	0.23	85	82	3.6	65	66	1.5	30 - 130	30
4-Chlorophenyl phenyl ether	ND	0.23	77	76	1.3	64	78	19.7	30 - 130	30
4-Nitroaniline	ND	0.23	90	86	4.5	81	89	9.4	30 - 130	30
4-Nitrophenol	ND	0.23	88	84	4.7	54	49	9.7	20 - 160	30
Acenaphthene	ND	0.23	75	72	4.1	63	77	20.0	30 - 130	30
Acenaphthylene	ND	0.13	66	62	6.3	56	66	16.4	30 - 130	30
Acetophenone	ND	0.23	59	57	3.4	65	68	4.5	30 - 130	30
Anthracene	ND	0.23	81	80	1.2	65	79	19.4	30 - 130	30
Atrazine	ND	0.13	80	75	6.5	73	79	7.9	30 - 130	30
Benz(a)anthracene	ND	0.23	86	82	4.8	65	79	19.4	30 - 130	30
Benzaldehyde	ND	0.23	70	66	5.9	61	60	1.7	20 - 160	30
Benzo(a)pyrene	ND	0.13	87	86	1.2	59	74	22.6	30 - 130	30
Benzo(b)fluoranthene	ND	0.16	81	79	2.5	59	76	25.2	30 - 130	30
Benzo(ghi)perylene	ND	0.23	88	84	4.7	44	55	22.2	30 - 130	30
Benzo(k)fluoranthene	ND	0.23	82	79	3.7	60	72	18.2	30 - 130	30
Benzyl butyl phthalate	ND	0.23	94	90	4.3	76	87	13.5	30 - 130	30
Bis(2-chloroethoxy)methane	ND	0.23	62	61	1.6	66	68	3.0	30 - 130	30
Bis(2-chloroethyl)ether	ND	0.13	57	54	5.4	60	63	4.9	30 - 130	30
Bis(2-ethylhexyl)phthalate	ND	0.23	91	88	3.4	67	86	24.8	30 - 130	30
Caprolactam	ND	0.23	64	61	4.8	51	63	21.1	20 - 160	30
Carbazole	ND	0.23	83	81	2.4	72	82	13.0	30 - 130	30
Chrysene	ND	0.23	77	75	2.6	54	66	20.0	30 - 130	30
Dibenz(a,h)anthracene	ND	0.13	86	84	2.4	54	67	21.5	30 - 130	30

## QA/QC Data

SDG I.D.: GCR19396

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Dibenzofuran	ND	0.23	75	71	5.5	63	76	18.7	30 - 130	30
Diethyl phthalate	ND	0.23	87	84	3.5	80	87	8.4	30 - 130	30
Dimethylphthalate	ND	0.23	91	84	8.0	87	84	3.5	30 - 130	30
Di-n-butylphthalate	ND	0.67	90	90	0.0	78	92	16.5	30 - 130	30
Di-n-octylphthalate	ND	0.23	96	91	5.3	68	89	26.8	30 - 130	30
Fluoranthene	ND	0.23	82	81	1.2	64	83	25.9	30 - 130	30
Fluorene	ND	0.23	81	76	6.4	68	82	18.7	30 - 130	30
Hexachlorobenzene	ND	0.13	89	88	1.1	62	84	30.1	30 - 130	30
Hexachlorobutadiene	ND	0.23	59	55	7.0	52	65	22.2	30 - 130	30
Hexachlorocyclopentadiene	ND	0.23	33	32	3.1	<10	<10	NC	20 - 160	30
Hexachloroethane	ND	0.13	50	44	12.8	41	52	23.7	20 - 160	30
Indeno(1,2,3-cd)pyrene	ND	0.23	82	79	3.7	44	56	24.0	30 - 130	30
Isophorone	ND	0.13	62	60	3.3	63	67	6.2	30 - 130	30
Naphthalene	ND	0.23	57	53	7.3	54	63	15.4	30 - 130	30
Nitrobenzene	ND	0.13	61	60	1.7	64	70	9.0	30 - 130	30
N-Nitrosodimethylamine	ND	0.23	56	53	5.5	54	57	5.4	20 - 160	30
N-Nitrosodi-n-propylamine	ND	0.13	66	65	1.5	69	72	4.3	30 - 130	30
N-Nitrosodiphenylamine	ND	0.13	78	76	2.6	70	82	15.8	30 - 130	30
Pentachlorophenol	ND	0.23	90	94	4.3	54	58	7.1	20 - 160	30
Phenanthrene	ND	0.13	81	79	2.5	65	79	19.4	30 - 130	30
Phenol	ND	0.23	71	71	0.0	78	78	0.0	20 - 160	30
Pyrene	ND	0.23	79	79	0.0	65	80	20.7	30 - 130	30
% 2,4,6-Tribromophenol	106	%	98	95	3.1	58	69	17.3	30 - 130	30
% 2-Fluorobiphenyl	71	%	68	64	6.1	58	71	20.2	30 - 130	30
% 2-Fluorophenol	60	%	53	51	3.8	48	49	2.1	30 - 130	30
% Nitrobenzene-d5	67	%	58	58	0.0	61	68	10.9	30 - 130	30
% Phenol-d5	58	%	59	59	0.0	60	62	3.3	30 - 130	30
% Terphenyl-d14	77	%	77	75	2.6	60	78	26.1	30 - 130	30

m

Comment:

The laboratory criteria of 30-130% is different than the NJKDQP general criteria of 70-130%. The NJKDQP criteria for problem compounds is 20-160%.

QA/QC Batch 741612 (mg/Kg), QC Sample No: CR24934 (CR19397)

### Volatiles - Soil (Low Level)

1,1,1-Trichloroethane	ND	0.005	105	114	8.2	112	112	0.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	102	106	3.8	101	101	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	0.005	103	108	4.7	106	103	2.9	70 - 130	30
1,1-Dichloroethane	ND	0.005	103	110	6.6	109	106	2.8	70 - 130	30
1,1-Dichloroethene	ND	0.005	102	111	8.5	108	107	0.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	103	107	3.8	91	91	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	100	105	4.9	88	87	1.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	0.001	101	105	3.9	103	100	3.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	0.005	105	116	10.0	106	107	0.9	70 - 130	30
1,2-Dibromoethane	ND	0.005	102	105	2.9	102	101	1.0	70 - 130	30
1,2-Dichlorobenzene	ND	0.005	103	108	4.7	101	100	1.0	70 - 130	30
1,2-Dichloroethane	ND	0.005	103	106	2.9	104	103	1.0	70 - 130	30
1,2-Dichloropropane	ND	0.005	107	110	2.8	109	106	2.8	70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	105	108	2.8	108	105	2.8	70 - 130	30
1,3-Dichlorobenzene	ND	0.005	101	105	3.9	99	97	2.0	70 - 130	30
1,4-Dichlorobenzene	ND	0.005	103	108	4.7	102	99	3.0	70 - 130	30
1,4-dioxane	ND	0.1	97	104	7.0	104	114	9.2	40 - 160	30
2-Hexanone	ND	0.025	97	101	4.0	95	92	3.2	70 - 130	30
4-Methyl-2-pentanone	ND	0.025	105	110	4.7	104	102	1.9	70 - 130	30

QA/QC Data

SDG I.D.: GCR19396

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Acetone	ND	0.01	86	94	8.9	90	83	8.1	70 - 130	30
Benzene	ND	0.001	103	106	2.9	106	104	1.9	70 - 130	30
Bromochloromethane	ND	0.005	95	106	10.9	98	98	0.0	70 - 130	30
Bromodichloromethane	ND	0.005	108	112	3.6	110	108	1.8	70 - 130	30
Bromoform	ND	0.005	98	103	5.0	96	97	1.0	70 - 130	30
Bromomethane	ND	0.005	104	112	7.4	108	106	1.9	70 - 130	30
Carbon Disulfide	ND	0.005	101	109	7.6	106	103	2.9	70 - 130	30
Carbon tetrachloride	ND	0.005	105	115	9.1	112	110	1.8	70 - 130	30
Chlorobenzene	ND	0.005	102	105	2.9	105	102	2.9	70 - 130	30
Chloroethane	ND	0.005	101	111	9.4	108	106	1.9	70 - 130	30
Chloroform	ND	0.005	97	106	8.9	103	103	0.0	70 - 130	30
Chloromethane	ND	0.005	106	112	5.5	106	108	1.9	70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	103	113	9.3	109	108	0.9	70 - 130	30
cis-1,3-Dichloropropene	ND	0.005	112	117	4.4	111	107	3.7	70 - 130	30
Cyclohexane	ND	0.005	101	109	7.6	109	107	1.9	70 - 130	30
Dibromochloromethane	ND	0.003	102	107	4.8	104	102	1.9	70 - 130	30
Dichlorodifluoromethane	ND	0.005	88	94	6.6	90	90	0.0	70 - 130	30
Ethylbenzene	ND	0.001	99	100	1.0	102	99	3.0	70 - 130	30
Isopropylbenzene	ND	0.001	107	110	2.8	112	109	2.7	70 - 130	30
m&p-Xylene	ND	0.002	99	102	3.0	102	100	2.0	70 - 130	30
Methyl ethyl ketone	ND	0.005	94	100	6.2	90	88	2.2	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	100	109	8.6	101	100	1.0	70 - 130	30
Methylacetate	ND	0.005	97	117	18.7	121	123	1.6	70 - 130	30
Methylcyclohexane	ND	0.005	106	112	5.5	114	110	3.6	70 - 130	30
Methylene chloride	ND	0.005	98	105	6.9	100	99	1.0	70 - 130	30
o-Xylene	ND	0.002	102	104	1.9	105	102	2.9	70 - 130	30
Styrene	ND	0.005	90	92	2.2	92	90	2.2	70 - 130	30
Tetrachloroethene	ND	0.005	108	112	3.6	112	110	1.8	70 - 130	30
Toluene	ND	0.001	104	107	2.8	108	105	2.8	70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	104	115	10.0	112	110	1.8	70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	114	119	4.3	110	107	2.8	70 - 130	30
Trichloroethene	ND	0.005	104	108	3.8	108	106	1.9	70 - 130	30
Trichlorofluoromethane	ND	0.005	100	108	7.7	109	107	1.9	70 - 130	30
Trichlorotrifluoroethane	ND	0.005	103	111	7.5	115	109	5.4	70 - 130	30
Vinyl chloride	ND	0.005	99	107	7.8	105	103	1.9	70 - 130	30
% 1,2-dichlorobenzene-d4	94	%	102	100	2.0	102	100	2.0	70 - 130	30
% Bromofluorobenzene	100	%	99	100	1.0	100	99	1.0	70 - 130	30
% Dibromofluoromethane	104	%	97	104	7.0	100	99	1.0	70 - 130	30
% Toluene-d8	93	%	103	103	0.0	103	103	0.0	70 - 130	30

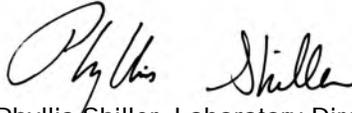
Comment:

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

  
Phyllis Shiller, Laboratory Director  
July 30, 2024

Tuesday, July 30, 2024

Criteria: NJ: ISCC, MGW, NRC, RC

State: NJ

## Sample Criteria Exceedances Report GCR19396 - PTCONS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CR19396	BE-SM	Beryllium	NJ / Soil Remediation Standard / Migration GW	1.05	0.28	0.7	0.7	mg/Kg
CR19397	\$8100SMRDP	Benz(a)anthracene	NJ / Soil Remediation Standard / Migration GW	3000	350	710	710	ug/Kg
CR19397	\$8100SMRDP	Benzo(a)pyrene	NJ / Soil Remediation Standard / Non Res. Direct Conta	3100	350	2000	200	ug/Kg
CR19397	\$8100SMRDP	Benzo(a)pyrene	NJ / Soil Remediation Standard / Non Res. Ingestion-Der	3100	350	2300	2300	ug/Kg
CR19397	\$8100SMRDP	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Direct Contact	3100	350	500	200	ug/Kg
CR19397	\$8100SMRDP	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Ingestion-Dermal	3100	350	510	510	ug/Kg
CR19397	\$DP8270_TCL	Benz(a)anthracene	NJ / Soil Remediation Standard / Migration GW	3100	250	710	710	ug/Kg
CR19397	\$DP8270_TCL	Benzo(a)pyrene	NJ / Soil Remediation Standard / Non Res. Direct Conta	2900	140	2000	200	ug/Kg
CR19397	\$DP8270_TCL	Benzo(a)pyrene	NJ / Soil Remediation Standard / Non Res. Ingestion-Der	2900	140	2300	2300	ug/Kg
CR19397	\$DP8270_TCL	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Direct Contact	2900	140	500	200	ug/Kg
CR19397	\$DP8270_TCL	Benzo(a)pyrene	NJ / Soil Remediation Standard / Res. Ingestion-Dermal	2900	140	510	510	ug/Kg
CR19397	BE-SM	Beryllium	NJ / Soil Remediation Standard / Migration GW	0.94	0.30	0.7	0.7	mg/Kg

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.

# DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

**Laboratory Name:** Phoenix Environmental Labs, Inc. **Client:**  
**Project Location:** 57 2A ORANGE ST **Project Number:**  
**Laboratory Sample ID(s):** CR19396, CR19397  
**Sampling Date(s):** 7/15/2024

**DKQP Methods Used**

- 1311/1312     6010     6020     7000     7196     7470/7471     8081     EPH  
 8082     8151     8260     8270     ETPH     9010/9012     VPH     TO15

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 NJDEP Data of Known Quality performance standards?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified handling, preservation, and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (4±2° C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
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 DKQP documents and/or site-specific QAPP?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7.	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Note:** For all questions to which the response was "No" (with the exception of question #7), additional information should 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 "Data of Known Quality."

**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: \_\_\_\_\_

*Rashmi Makol*

Date: Tuesday, July 30, 2024

Printed Name: Rashmi Makol

Position: Project Manager



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



## NJDKQP Certification Report

July 30, 2024

SDG I.D.: GCR19396

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### SDG Comments

8270 Semi-volatile Organics:  
The client requested a short list for 8270 NJDKQP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

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### Cyanide Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### Instrument:

LACHAT 07/26/24-1 Dina Montagna, Chemist 07/26/24  
CR19397

The samples were distilled in accordance with the method.  
The initial calibration met criteria.

The calibration check standards (ICV,CCV) were within 15% of true value and were analyzed at a frequency of one per ten samples.

The continuing calibration blanks (ICB,CCB) had concentrations less than the reporting level.

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

#### QC (Batch Specific):

##### Batch 741818 (CR24960)

CR19397

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

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### EPH NJ Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### Instrument:

AU-FID2 07/25/24-1 Jeff Bucko, Chemist 07/25/24  
CR19397 (1X)

The initial calibration (NJ723AI) 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 25% except for the following compounds:None.

#### QC (Batch Specific):

##### Batch 741712 (CR19397)

CR19397

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 25% with the following exceptions: None.  
Additional EPH fractionation criteria: Breakthrough criteria (BT) is 0 to 5%

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### Mercury Narration

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## Certification Report

July 30, 2024

SDG I.D.: GCR19396

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### Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### Instrument:

**MERLIN 07/19/24 10:03** Alexander Latka, Chemist 07/19/24

CR19396, CR19397

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

#### QC (Batch Specific):

**Batch 740986 (CR19207)**

CR19396, CR19397

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 for waters is 80-120% and for soils is 70-130%.

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### ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

**QC Batch 740685 (Samples: CR19396, CR19397): -----**

**The MS and/or the MSD recovery is above the upper range, therefore a slight high bias is possible. (Potassium)**

**The Sample/Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Barium, Sodium)**

#### Instrument:

**ARCOS-3 07/18/24 10:58** Cindy Pearce, Tina Hall, Chemist 07/18/24

CR19396, CR19397

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

#### QC (Batch Specific):

**Batch 740685 (CR19396)**

CR19396, CR19397

All LCS recoveries were within 75 - 125 with the following exceptions: None.

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## Certification Report

July 30, 2024

SDG I.D.: GCR19396

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### **ICP Metals Narration**

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.

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### **PCB Narration**

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### **Instrument:**

**AU-ECD48 07/24/24-1** Saadia Chudary, Chemist 07/24/24  
CR19397 (2X)

The initial calibration (PC0723AI) RSD for the compound list was less than 20% except for the following compounds: None.  
The initial calibration (PC0723BI) 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:None.

#### **QC (Batch Specific):**

##### **Batch 741488 (CR19397)**

CR19397

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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### **PEST Narration**

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### **Instrument:**

**AU-ECD33 07/24/24-1** Keith Aloisa, Chemist 07/24/24  
CR19397 (2X)

The initial calibration (PS0614AI) RSD for the compound list was less than 20% except for the following compounds: None.  
The initial calibration (PS0614BI) 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.

#### **QC (Batch Specific):**

##### **Batch 741489 (CR19397)**

CR19397

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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### **SVOA Narration**

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## NJDKQP Certification Report

July 30, 2024

SDG I.D.: GCR19396

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### SVOA Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

**QC Batch 741081 (Samples: CR19396, CR19397): -----**

**The MS and/or the MSD recovery is above the upper range, therefore a slight high bias is possible. (Indeno(1,2,3-cd)pyrene)**

**The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Anthracene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene)**

#### Instrument:

**CHEM06 07/19/24-2**

Matt Richard, Chemist 07/19/24

CR19396 (1X), CR19397 (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\_BNA\_0712):

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 (CHEM06/0719\_17-6\_BNA\_0712):

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.

**CHEM07 07/25/24-1**

Matt Richard, Chemist 07/25/24

CR19397 (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\_0724):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.053 (0.1), Hexachlorobenzene 0.076 (0.1)

Continuing Calibration Verification (CHEM07/0725\_05-7\_SVFULL\_0724):

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 0.052 (0.1), Hexachlorobenzene 0.076 (0.1)



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## NJDKQP Certification Report

July 30, 2024

SDG I.D.: GCR19396

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### SVOA Narration

#### QC (Batch Specific):

##### Batch 741081 (CR19397)

CR19396, CR19397

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

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

The laboratory criteria of 30-130% is different than the NJKDQP general criteria of 70-130%. The NJKDQP criteria for problem compounds is 20-160%.

##### Batch 741607 (CR25108)

CR19397

All LCS recoveries were within 30 - 130 with the following exceptions: 2-Nitroaniline(145%)

All LCSD recoveries were within 30 - 130 with the following exceptions: 2-Nitroaniline(141%)

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

The laboratory criteria of 30-130% is different than the NJKDQP general criteria of 70-130%. The NJKDQP criteria for problem compounds is 20-160%.

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### VOA Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### Instrument:

##### CHEM18 07/23/24-1

Jane Li, Chemist 07/23/24

CR19397 (1X)

Initial Calibration Evaluation (CHEM18/VT-M071924):

99% 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 (CHEM18/0723\_04-VT-M071924):

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 741612 (CR24934)

CHEM18 7/23/2024-1

CR19397(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 30% 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%.



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**Sarah Bell**

**From:** Justin Garcia <[JustinGarcia@ptconsultantsinc.com](mailto:JustinGarcia@ptconsultantsinc.com)>  
**Sent:** Wednesday, July 17, 2024 8:50 AM  
**To:** Sample Receiving - Phoenix Labs; Sarah Bell  
**Subject:** RE: Phoenix Labs - GCR19396, 57 2A ORANGE ST - COC Acknowledgement

Good morning,

Please do not run EPH initially on these samples. We will look at the results and determine which to run EPH on.

Thank you!

*Justin Garcia*  
*Project Manager*  
**PT Consultants Inc.**  
Environmental Consulting & Remediation  
560 Benigno Blvd 2nd Floor  
Bellmawr, NJ 08031  
(856) 251-9980 ext 2013  
(856) 931-1849 Fax

---

**From:** [SampleReceiving@phoenixlabs.com](mailto:SampleReceiving@phoenixlabs.com) <[SampleReceiving@phoenixlabs.com](mailto:SampleReceiving@phoenixlabs.com)>  
**Sent:** Tuesday, July 16, 2024 7:59 PM  
**To:** Justin Garcia <[JustinGarcia@ptconsultantsinc.com](mailto:JustinGarcia@ptconsultantsinc.com)>  
**Subject:** Phoenix Labs - GCR19396, 57 2A ORANGE ST - 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#: 13794-01

Samples Will Be Disposed After: 30 Days

GCR19396 Criteria:

SOIL(2): NJ ISCC (Impact to GW Soil CC), NJ MGW (Migration to GW), NJ NRC (Non-Res. Criteria Remediation), NJ RC (Res. Criteria Remediation)

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 GCR19396 (57 2A ORANGE ST ) has been logged in for the following samples:

Phoenix Id	Client Id
CR19396	SBD-1
CR19397	SBD-2

**This SDG has been logged in for Standard 7 business day turn-around time.**

**The samples in this delivery group were received at 2.9°C. (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](http://www.phoenixlabs.com)

Please do not reply to this email.

cc'd:deniscummings@ptconsultantsinc.com;bradsummerville@ptconsultantsinc.com;justingarcia@ptconsultantsinc.com;alexakerprich@ptconsultantsinc.com;rashmi@phoenixabs.com

## Lisa Arnold

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**From:** Justin Garcia <JustinGarcia@ptconsultantsinc.com>  
**Sent:** Tuesday, July 23, 2024 4:46 PM  
**To:** Lisa Arnold; Loreen Fay  
**Subject:** RE: Phoenix Labs - GCR19396, 57 2A ORANGE ST - COC Acknowledgement

Good afternoon,

Would we be able to activate CR19397 (SBD-2) for the contingent analysis of TCL/TAL+30 and EPH Cat II, please.

Thank you!

*Justin Garcia*  
*Project Manager*  
PT Consultants Inc.  
Environmental Consulting & Remediation  
560 Benigno Blvd 2nd Floor  
Bellmawr, NJ 08031  
(856) 251-9980 ext 2013  
(856) 931-1849 Fax

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**From:** Lisa Arnold <lisa@phoenixlabs.com>  
**Sent:** Tuesday, July 23, 2024 2:16 PM  
**To:** Loreen Fay <loreen@phoenixlabs.com>; Justin Garcia <JustinGarcia@ptconsultantsinc.com>  
**Subject:** RE: Phoenix Labs - GCR19396, 57 2A ORANGE ST - COC Acknowledgement

Thank you Loreen 😊

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**From:** Loreen Fay <loreen@phoenixlabs.com>  
**Sent:** Tuesday, July 23, 2024 2:15 PM  
**To:** [JustinGarcia@ptconsultantsinc.com](mailto:JustinGarcia@ptconsultantsinc.com)  
**Cc:** Lisa Arnold <lisa@phoenixlabs.com>  
**Subject:** RE: Phoenix Labs - GCR19396, 57 2A ORANGE ST - COC Acknowledgement

Hi Justin,  
This report was printed and is currently in review. The report will be released to the website upon review.  
Thanks-Loreen

**Loreen Fay**  
Executive Assistant to the Vice President  
Client Services - Project Manager  
Phoenix Environmental Laboratories, Inc.  
587 East Middle Turnpike | Manchester, CT 06040  
Ph: 860-645-3513  
[www.phoenixlabs.com](http://www.phoenixlabs.com)

**ATTACHMENT 4**

**JULY 2024 ASBESTOS SURVEY REPORT**



# ASBESTOS SURVEY REPORT

57 Lagrange Road

Raritan, NJ



*Prepared for:*

**Private Properties**

57 Lagrange Road

Raritan NJ

*Prepared by:*

**ACM Solutions Services, LLC**

1435 51<sup>st</sup> Street

North Bergen, NJ 07047

**July 08, 2024**

### **Site Identification:**

ACM Solutions Services, LLC (ACMSS) conducted an asbestos survey on July 8th 2024 at one (1) Building located at 57 Lagrange Rd, Raritan, New Jersey.

The area was vacant at the time of the survey. The asbestos survey was conducted in accordance with appropriate federal and state regulations including 40 CFR 763 Subpart E (USEPA-AHERA) throughout the entirety of the building to assess potential asbestos-containing materials prior to proposed demolition.

The asbestos survey consisted of identification of suspected asbestos-containing material (ACM), quantifying ACM, assessing material condition and location, and collecting bulk samples of suspected friable and non-friable materials. Materials visibly identified as non-asbestos such as fiberglass insulation, metal, stone, rubber, and wood were not sampled.

The locations of the samples were determined by visual inspection, and were collected to represent each individual homogeneous area, which is defined as one or more areas of material that are similar in appearance and texture and that have the same installation date and function.

### **Asbestos Survey Results:**

A total of 11 bulk samples were collected at 57 Lagrange Rd, Raritan, New Jersey. All samples were analyzed by Hillman Consulting, LLC, a NJ State licensed laboratory located in Union, NJ. The samples were tested via polarized light microscopy (PLM). Samples that were non-friable organically bound were tested via the transmission electron microscopy (TEM) method.

Analytical results indicate that ACM was detected in the following (2) samples:

- Kitchen, Linoleum  
Chrysotile 10%, Non- Fibrous 90%
- Main Roof, roof  
Chrysotile 3%, Non-Fibrous 90% Cellulose fiber 7%

### **Conclusions and Recommendations:**

Based on field observations and results of sample analyses, the following is recommended:

- All identified ACM must be properly removed and disposed of by a NJDOL licensed asbestos handling contractor in accordance with federal, state and local regulations. Proper notifications must be filed prior to performing such activities.
- The abatement activities should be either on a full time or periodic basis and monitored by a third-party project monitor. The monitor oversees the contractor's work practices to ensure regulatory compliance.

- During the course of building demolition, if building materials become accessible that were previously hidden and not included in this survey, consider contacting ACMSs to conduct a supplementary asbestos survey.

**Certification:**

The undersigned certifies that reasonable due diligence, in accordance with acceptable industry standards and USEPA requirements, was exercised in conducting this asbestos survey and that the results contained herein are true and accurate, to the best of my knowledge, and the information reflects existing conditions of the building and its ACM at the time of the site visit.

**Certification:**

The undersigned certifies that reasonable due diligence, in accordance with acceptable industry standards and USEPA requirements, was exercised in conducting this asbestos survey and that the results contained herein are true and accurate, to the best of my knowledge, and the information reflects existing conditions of the building and its ACM at the time of the site visit.

***Edwin Precilla***

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Edwin Precilla  
USEPA AHERA Asbestos Building Inspector  
Certification # 60644

**Attachments:**

*Asbestos Analytical Data Summary Table*  
*Laboratory Analytical Results and Chain of Custody*  
*Photograph Log*  
*Inspector Certifications*

Photograph Log-  
- Asbestos Survey-  
57 Lagrange Rd,  
Raritan, New Jersey  
July 8th 2024



	<b><u>Photo Location:</u></b> Front office
	<b><u>Sample Name:</u></b> -7-
	<b><u>Photo Description:</u></b> Sheetrock wall

	<b><u>Photo Location:</u></b> Exterior window
	<b><u>Sample Name:</u></b> -8-
	<b><u>Photo Description:</u></b> Window glazing

Photograph Log-  
- Asbestos Survey-  
57 Lagrange Rd,  
Raritan, New Jersey  
July 8th 2024



	<b><u>Photo Location:</u></b> Bathroom
	<b><u>Sample Name:</u></b> -5-
	<b><u>Photo Description:</u></b> Sheetrock wall

	<b><u>Photo Location:</u></b> Bathroom
	<b><u>Sample Name:</u></b> -6-
	<b><u>Photo Description:</u></b> Ceiling Tile

Photograph Log-  
- Asbestos Survey-  
57 Lagrange Rd,  
Raritan, New Jersey  
July 8th 2024



	<b><u>Photo Location:</u></b> Kitchen
	<b><u>Sample Name:</u></b> -3-
	<b><u>Photo Description:</u></b> Floor Tile

	<b><u>Photo Location:</u></b> Bathroom
	<b><u>Sample Name:</u></b> -4-
	<b><u>Photo Description:</u></b> Floor tile

Photograph Log-  
- Asbestos Survey-  
57 Lagrange Rd,  
Raritan, New Jersey  
July 8th 2024



	<u>Photo Location:</u> Basement
	<u>Sample Name:</u> -1-
	<u>Photo Description:</u> Sheetrock wall

	<u>Photo Location:</u> Kitchen
	<u>Sample Name:</u> -2-
	<u>Photo Description:</u> Linoleum

Lab ID	Field ID	Sample Name	Sample Description	Sample Location	Field Notes	PLM	TEM
W/466965	1	Basement	Non homogeneous	Sheetrock wall		NAD	
W/466966	2	Kitchen	Homogeneous	Linoleum		YES	
W/466967	3	Kitchen	Homogeneous	Floor tile		NAD	
W/466968	4	Bathroom	Homogeneous	Floor tile		NAD	
W/466969	5	Bathroom	Non homogeneous	Sheetrock wall		NAD	
W/466970	6	Bathroom	Homogeneous	Ceiling tile		NAD	
W/466971	7	Front Office	Non homogeneous	Sheetrock wall		NAD	
W/466972	8	Exterior window	Homogeneous	Window glazing		NAD	
W/466973	9	Main roof/lower roof	Homogeneous	Roof		NAD	
W/466974	10	Main roof/upper roof	Homogeneous	Roof		NAD	
W/466975	11	Main roof/middle section	Homogeneous	Roof		YES	

Notes: All samples collected on July 8th, 2024.

NF = Non-Friable

Results in yellow contain asbestos.

PLM: Polarized Light Microscopy analysis

TEM: Transmission Electron Microscopy analysis

NAD - No Asbestos Detected

C = Chrysotile