PEER
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Est. 1978

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Engineers • Scientists • Planners

November 15, 2024

Rani Philip, Assoc. AIA
Project Manager
DORE + WHITTIER
260 Merrimac Street
Newburyport, Massachusetts 01950

Re: WILMINGTON – WILDWOOD SCHOOL @ NORTH INTERMEDIATE SCHOOL
320 Salem Street, Wilmington, MA 01887
Limited Subsurface Soil Investigation Memorandum

Dear Ms. Philip:

PEER Consultants P.C. (PEER) completed an initial review of the environmental laboratory analytical results for the initial eight (8) combined geotechnical/geo-environmental borings completed at the North Intermediate School location on October 28, 2024 and October 29, 2024. The weather on October 28, 2024 was partly cloudy to sunny, and the temperature ranged from 34°F to 51°F. The weather on October 29, 2024 was cloudy with haze (smoke), and the temperature ranged from 36°F to 40°F. PEER understands that Soil X was the drilling contractor on the project site, and utilized a Dietrich D70 Turbo Track-Mounted Drill Rig, with hollow stem augers (and no drive and wash) to complete the borings. Soil X was represented by a driller, and driller's assistance. Lahlaf Geotechnical Consulting, Inc., the geotechnical contractor, was represented by Mr. Berke Hatipoglu. PEER was represented by Mr. Dave Gorden, Board Certified Environmental Scientist and Certified Professional Soil Scientist.

During the limited subsurface soil investigation at the North Intermediate School, combined with limited recovery of soil within the split spoons, PEER collected nine (9) separate, composited soil samples from specific boring depths, and/or from across multiple nearby borings, and related to an investigation for the presence or absence of pesticides and/or herbicides in Topsoil (TS) material, and related to an investigation of soil conditions for disposal pre-characterization purposes in Dry Native / Reworked Native / Suspected Imported Similar (DRY) material, and related to an investigation of soil conditions for disposal pre-characterization purposes in Wet Native (WET) material.

Please note that PEER considered reworked native soil to be soil which visually appeared similar to soil on the project site, and soil which was suspected of having been excavated during the development of the existing school, and then redeposited on the surface of other areas of the project site.

PEER selected representative aliquots of soil from the top soil (TS) of each one of the borings B1 through B8, at a depth, in general, from 0-2' (or consisting of the dark brown to black portion of the top soil) to be analyzed for Pesticides and Herbicides [**B1B8 TS**]. Please note that on November 13, 2024, subsequent to PEER receiving the analytical results for the entire sample delivery group from the analytical laboratory, PEER also requested that the analytical laboratory determine the concentration of arsenic in the sample [**B1B8 TS**].

PEER selected soil from the dry (not within the groundwater table) native soil / reworked native soil / suspect imported similar soil to be analyzed for Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), Metals, Polychlorinated Biphenyls (PCBs), Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) {C10-C28}, and TPH Gasoline Range Organics (GRO) {C6-C10}, and for General Chemistry parameters such as Percent Solids, Conductivity, Corrosivity (pH), Flashpoint/Ignitability, Reactive Cyanide, and Reactive Sulfide.

Due to the predominance of visually similar soil across the completed borings down to the boring termination depth, PEER collected analytical samples for the above parameters based on the following depth intervals:

- **B3B4B5 DRY** was composited (including representative aliquots of) soil from Boring B3 at depths of 0-2', 2-4', and 4-6'; from Boring B4 at depths of 0-2', 2-2.9', and 4-6'; and from Boring B5 at depths of 0-2' and 4-6'. This composited sample did not include the dark brown to black portion of the top soil.
- **B1 DRY** was composited (including representative aliquots of) soil from Boring B1 at depths of 0-2' and 2-4'. This composited sample did not include the dark brown to black portion of the top soil.
- **B2 DRY** was composited (including representative aliquots of) soil from Boring B2 at depths of 0-2', 2-4', and 4-6'. This composited sample did not include the dark brown to black portion of the top soil.
- **B6 DRY** was composited (including representative aliquots of) soil from Boring B6 at depths of 0-2', 2-4', and 4-6'. This composited sample did not include the dark brown to black portion of the top soil.
- **B8 DRY** was composited (including representative aliquots of) soil from Boring B8 at depths of 0-2', 2-4', 4-6', and 6-8'. This composited sample did not include the dark brown to black portion of the top soil.

PEER selected soil from the presumed wet (due to groundwater) native soil to be analyzed for VOCs, SVOCs, Metals, PCBs, TPH DRO, TPH GRO, and for General Chemistry parameters such as Percent Solids, Conductivity, Corrosivity (pH), Flashpoint/Ignitability, Reactive Cyanide, and Reactive Sulfide.

Due to the predominance of visually similar soil across the completed borings at or below the groundwater table, and down to the boring termination depth, PEER collected analytical samples for the above parameters based on the following depth intervals:

- **B6B8 WET** was composited (included representative aliquots of) soil from Boring B6 at depths of 9-11' and 14-16'; and from Boring B8 at depths of 9-11' and 14-16'.
- **B1B7 WET** was composited (including representative aliquots of) soil from Boring B1 at depths of 9-11' and 14-16'; and from Boring B7 at depths of 8-10', 10-12', and 14-16'.
- **B2 WET** was composited (included representative aliquots of) soil from Boring B2 at depths of 6-8', 9-11', and 14-16'.

PEER reviewed the textural and moisture conditions for each of the eight borings. PEER identified the following conditions in the subsurface soil:

- In general, soil from **Boring B1** consisted of material consisting of sand and gravel to at least 4 feet. The origin of this material (fill versus reworked native versus native) could be determined as the split spoon had no recovery for the 4-6' interval. However, soil from Boring B1 consisted of suspect native clayey silt to silty clay to clay from 6 feet to 11 feet, and suspect native sand and gravel to 19 feet, then suspect bedrock at 19 feet, and auger refusal at 19 feet. Groundwater indicators were observed at approximately between 8 feet and 9 feet.

- In general, soil from **Boring B2** consisted of suspect fill (sand) to 3 feet (with buried top soil observed at approximately 3 feet), then suspect native sand and gravel (with trace clay at depths) to 19.1 feet, then suspect bedrock at 19.1 feet, and auger refusal at 19.1 feet. Groundwater indicators were observed at approximately 6 feet.

- In general, soil from **Boring B3** consisted of suspect reworked native sand and gravel to 2 feet, then suspect native sand and gravel to 8 feet, then suspect bedrock at 9 feet, and auger refusal at 10.5 feet. Groundwater indicators were not observed.

- In general, soil from **Boring B4** consisted of suspect fill (sand) to 2.9 feet, then suspect native silty sand and a suspect weathered cobble to 9.7 feet, then suspect bedrock at 11 feet, and auger refusal at 11 feet. Remnant groundwater indicators (mottling) in a moist soil matrix were observed at approximately 6 feet.

- In general, soil from **Boring B5** consisted of suspect fill (sand) to 4 feet (with buried top soil observed at approximately 4 feet), then suspect native silty sand to 9 feet, then suspect bedrock at 9 feet, and auger refusal at 10 feet. Remnant groundwater indicators (mottling) in a moist soil matrix were observed at approximately 6 feet.

- In general, soil from **Boring B6** consisted of suspect fill (sand) to 2 feet, then suspect native sand and gravel to 19 feet, then suspect bedrock at 19 feet, and auger refusal at 19.7 feet. Groundwater indicators were observed at approximately 6.2 feet.

- In general, soil from **Boring B7** consisted of suspect fill (sand) to 4 feet (with buried organics observed between approximately 4 feet to 8 feet), then suspect native sand and gravel to 20.2 feet, then suspect bedrock at 20.2 feet, and auger refusal at 20.2 feet. Groundwater indicators were observed at approximately 8 feet.

- In general, soil from **Boring B8** consisted of suspect fill (sand) to 1 foot, then suspect native sand and gravel to 19.8 feet, and auger refusal at 19.8 feet. Groundwater indicators were observed at approximately between 8 feet and 9 feet.

PEER estimated and documented a global positioning system (GPS) point for each boring based on an open source electronic application; therefore, the location of each soil boring, as estimated in the below Google Earth image is considered approximate only.

Wildwood School @ North Intermediate School, Wilmington, MA
(North is Up)

PEER compared the laboratory analytical results to Massachusetts Department of Environmental Protection (MADEP) Policy # COMM-97-001, Reuse and Disposal of Contaminated Soil at Massachusetts Landfills, August 1997. PEER also compared the laboratory analytical results to 310 CMR 40.00, the Massachusetts Contingency Plan (MCP) reporting category RCS-1 and reporting category RCS-2. General chemistry laboratory results were separately compared with RCRA Characteristics under 40 CFR 261. Additional discussions pertaining to the comparison of soil analytical results may be found in the paragraphs below.

The following information provides a summary of the laboratory analytical results from soil samples collected by PEER on October 28, 2024 and October 29, 2024. Please refer to Attachment A for a summary of the detected analytes, in surface and subsurface soil. The samples were kept under chain of custody by PEER, and in a cooler with ice packs, until Phoenix Environmental Laboratories, Inc. (Phoenix), of Manchester, CT couriered the samples back to their office on October 30, 2024. PEER received the Analysis Report from Phoenix with the test results on November 6, 2024. PEER received an updated Analysis Report from Phoenix which also included the test results for arsenic in sample **B1B8 TS** on November 14, 2024. Please refer to Attachment B for the November 14, 2024 Phoenix Analysis Report.

VOCs

For the following Samples: B3B4B5 DRY; B1 DRY; B2 DRY; B6 DRY; B6B8 WET; B1B7 WET; and B2 WET, there were no detections of individual VOCs. In addition, there were no exceedances of the MCP RCS-1 Criteria for an individual VOC, and there were no exceedances of the MCP RCS-2 Criteria for an individual VOC. Furthermore, there were no exceedances of Total VOCs for acceptance at a lined landfill, and there were no exceedances of Total VOCs for acceptance at an unlined landfill. VOCs were not detected. VOCs were also not detected in the Trip Blanks for the day. **Refer to Table 1A** within Attachment A.

SVOCs

For the following Samples: B3B4B5 DRY; B1 DRY; B2 DRY; B6 DRY; B6B8 WET; B1B7 WET; and B2 WET, there were no detections of individual SVOCs. In addition, there were no exceedances of the MCP RCS-1 Criteria for an individual SVOC, and there were no exceedances of the MCP RCS-2 Criteria for an individual SVOC. Furthermore, there were no exceedances of Total SVOCs for acceptance at a lined landfill, and there were no exceedances of Total SVOCs for acceptance at an unlined landfill. SVOCs were not detected. **Refer to Table 1B** within Attachment A.

Metals

For the following Samples: B3B4B5 DRY; B1 DRY; B2 DRY; and B1B7 WET, there were neither exceedances of the MCP RCS-1 Criteria for individual Metals nor exceedances of the MCP RCS-2 Criteria for individual Metals. In addition, there were neither exceedances of Metals for acceptance at a lined landfill nor exceedances of Metals for acceptance at an unlined landfill.

Of the 14 metals analyzed for in Samples B3B4B5 DRY; B2 DRY; B6 DRY; B6B8 WET; B1B7 WET; and B2 WET, only eight metals were detected. Nine of 14 metals were detected in Sample B1 DRY.

For Samples B8 DRY; B6B8 WET; and B2 WET, there was each one exceedance of the MCP RCS-1 Criteria for one individual metal (arsenic) and one exceedance of the MCP RCS-2 Criteria for one individual metal (arsenic). However, for Samples B8 DRY; B6B8 WET; and B2 WET, there were neither exceedances of Metals for acceptance at a lined landfill nor exceedances of Metals for acceptance at an unlined landfill.

For Samples B6 DRY; B6B8 WET; and B2 WET, there was each one exceedance of the MCP RCS-1 Criteria for one individual metal (arsenic) and one exceedance of the MCP RCS-2 Criteria for one individual metal (arsenic).

For Sample B6 DRY, there was one exceedance of the MCP RCS-1 Criteria for one individual metal (arsenic) and one exceedance of the MCP RCS-2 Criteria for one individual metal (arsenic). In addition, for Sample B6 DRY, there was one exceedance of a metal (arsenic) for acceptance at a lined landfill and one exceedance of a metal (arsenic) for acceptance at an unlined landfill.

Based on the above exceedances of arsenic, PEER requested that Phoenix analyze Sample B1B8 TS for arsenic. Arsenic was detected, however, for arsenic in this sample, there were neither exceedances of the MCP RCS-1 Criteria nor exceedances of the MCP RCS-2 Criteria. In addition, for arsenic in this sample, there were neither exceedances for acceptance at a lined landfill nor exceedances for acceptance at an unlined landfill. **Refer to Table 1C** within Attachment A.

PEER notes that spatially, borings B2, B8, and B6 are oriented in a linear shape from north to south across the Property, with one additional boring each (proposed, yet not completed as part of the Geotechnical program) to the east and west of this linear shape.

PEER notes that according to an abstract for the publication “Arsenic In Central Massachusetts Bedrock And Groundwater”, 2010, Authors: McTigue, DF, Stein, CL, Brandon, WC, Kopera, JP, Keskula, AJ, Koteas, CG, the authors cite the following:

> Across the New England "arsenic belt," groundwater arsenic (As) concentrations often exceed the EPA's 0.01-mg/L drinking water standard. In overburden groundwater at a site within this belt in north-central Massachusetts, As has been reported at levels up to 7.6 mg/L. Bedrock at the site consists of Silurian Central Maine Terrane metasediments intruded by the Devonian Ayer granodiorite and Chelmsford granite. Exchange of hydrothermal fluids between these lithologies during intrusion and later deformation, faulting, and metamorphism resulted in crystallization of arsenic-bearing minerals, including arsenopyrite. Quaternary deglaciation and unloading dilated joint systems in the bedrock, allowing increased exposure of the

> mineralogy to meteoric water. Several arsenopyrite alteration products (e.g., scorodite), of varying solubilities, precipitated on fracture surfaces and along grain boundaries between major phases. In the emerging conceptual model for this site, groundwater is recharged in bedrock uplands and moves downgradient through the fracture network, becoming increasingly reducing as it moves along a flow path. Arsenic dissolved from arsenopyrite and arsenic-bearing alteration phases in bedrock remains in solution until the groundwater discharges to lowland areas hydraulically downgradient. In these adjacent lowlands, glacial sand and gravel overburden lies above the bedrock. When the reducing water reaches more oxidizing conditions, As-sorbing hydrous ferric oxides (HFO) precipitate out on the aquifer solids, resulting in accumulation of As in the deep overburden aquifer. A large landfill at this site, now closed and capped, imposed reducing conditions, and As is mobilized into groundwater by reductive dissolution of the HFO. The presence of elevated As in groundwater is consistent with arsenic-bearing phases generated in granitoids at depth during regional metamorphism, which were subsequently altered, and are being solubilized at present by the circulation of shallow groundwater through varying redox environments. This scenario is supported by geochemical and petrographic studies of the granitoids and the occurrence of the highest groundwater and soil arsenic concentrations in the adjacent deep overburden.

PEER notes that the abstract references the term “site”; however, the abstract referenced “site” should not be confused with the Wildwood School at North Intermediate School project location. PEER also notes that the study referenced above is referred to as occurring in the “Primary Study Area”.

PEER further notes that according to the publication "Arsenic and Uranium in Water from Private Wells Completed in Bedrock of East-Central Massachusetts - Concentrations, Correlations with Bedrock Units, and Estimated Probability Maps", by the United States Geological Service, prepared in cooperation with the Massachusetts Department of Environmental Protection and the Massachusetts Department of Public Health, and dated 2011, the authors cite the following:

> The study encompasses the east-central arsenic belt in Massachusetts, the location of nearly all contamination of bedrock wells in the State by arsenic from a natural source. Arsenic has long been known to be present in water from bedrock wells in east-central Massachusetts, and the State straddles an arsenic belt that extends from Connecticut to New Brunswick, Canada. The distribution of bedrock units of crystalline igneous and metamorphic rocks in the study area is complex. The study area is crossed by major faults that divide parts of three geologic terranes that include the Merrimack belt, the Nashoba zone and the Milford-Dedham zone. The Primary Study Area includes most of the Merrimack belt, which extends from the Connecticut Valley belt (indicated by the Merrimack belt western boundary) to the Clinton-Newbury fault, and the western half of the Nashoba zone, which extends from the Clinton-Newbury fault to the Bloody Bluff fault. The Secondary Study Area includes the remainder of the Nashoba zone and the western edge of the Milford-Dedham zone, which begins at the Bloody Bluff fault and extends to the east.

PEER also notes that the study referenced above is referred to as occurring both in the “Primary Study Area” and in the “Secondary Study Area”.

In addition, according to a Probability of Exceeding the Arsenic Drinking Water Standard in Private Drinking Water Wells in Massachusetts, a Map which accompanies / compliments the Publication above, Wilmington in general appears in the ORANGE highlighted Section, inferring that Wilmington has a 5-10% probability of exceeding the public drinking water standard (of 10 parts per billion) for Arsenic in its groundwater. Refer to Attachment C for a copy of this Map.

PEER notes that the slightly elevated concentration of arsenic occurred in two soil samples above the groundwater table and occurred in two soil samples within the groundwater, at locations associated with playing fields which also receive irrigation. PEER understands that Mr. Jamie Magaldi, Wilmington Public Works Director, has indicated that the irrigation system at the North Intermediate runs off of a deep bedrock well (and) the pump house is the brick building (along the western edge of the Property), with two irrigation well points, one near the pump house marked with an irrigation box, and the second along the northwestern edge of the Property, and suspected of being buried.

The presence of arsenic in soil (above the groundwater table), suspected of being formed (i.e., parent material) from the bedrock of the region; combined with the presence of arsenic in soil (above the groundwater table), suspected of being irrigated with groundwater from a deep bedrock well; combined with consideration of the proximity of the irrigation system sprinkler heads to the specific boring locations; and combined with the presence of arsenic in soil within the groundwater table – from this project site, which is located in Wilmington, (i.e., in an arsenic belt in east central Massachusetts), may lend itself to the rationale outlined in the two studies cited above.

Furthermore, the Natural Resource Conservation Service (NRCS) Web Soil Survey indicates that the soil series of Deerfield loamy fine sand, 0 to 3 percent slopes, from parent materials consisting of sandy outwash derived from granite, gneiss, and/or quartzite occurs near boring B2 and B6. The NRCS Web Soil Survey also indicates that the soil series of Udorthents, sandy, from parent materials consisting of loamy alluvium and/or sandy glaciofluvial deposits and/or loamy glaciolacustrine deposits and/or loamy marine deposits and/or loamy basal till and/or loamy lodgment till occurs near boring B6 and B8.

The Surficial Materials Map of the Wilmington Quadrangle, Massachusetts (2018) indicates that the surficial material at this project site consists of:

> "coarse deposits which consist of gravel deposits, sand and gravel deposits, and sand deposits, not differentiated in this report. Gravel deposits are composed of at least 50 percent gravel-size clasts; cobbles and boulders predominate; minor amounts of sand occur within gravel beds, and sand comprises a few separate layers. Gravel layers generally are poorly sorted, and bedding commonly is distorted and faulted due to post depositional collapse related to melting of ice. Sand and gravel deposits occur as mixtures of gravel and sand within individual layers and as layers of sand alternating with layers of gravel. Sand and gravel layers generally range between 25 and 50 percent gravel particles and between 50 and 75 percent sand particles. Layers are well sorted to poorly sorted; bedding may be distorted and faulted due to post depositional collapse. Sand deposits are composed mainly of very coarse to fine sand, commonly in well-sorted layers. Coarser layers may contain up to 25 percent gravel particles, generally granules and pebbles; finer layers may contain some very fine sand, silt, and clay."

PCBs

For the following Samples: B3B4B5 DRY; B1 DRY; B2 DRY; B6 DRY; B6B8 WET; B1B7 WET; and B2 WET, there were neither exceedances of the MCP RCS-1 Criteria for individual Aroclors nor exceedances of the MCP RCS-2 Criteria for individual Aroclors. There were neither exceedances of Total PCBs for acceptance at a lined landfill nor exceedances of Total PCBs for acceptance at an unlined landfill. PCBs were not detected. **Refer to Table 1D** within Attachment A.

TPHs

For the following Samples: B3B4B5 DRY; B1 DRY; B2 DRY; B6 DRY; B6B8 WET; B1B7 WET; and B2 WET, there were neither exceedances of the MCP RCS-1 Criteria for TPH DRO nor exceedances of the MCP RCS-2 Criteria for TPH DRO. There were neither exceedances of TPH DRO for acceptance at a lined landfill nor exceedances of TPH DRO for acceptance at an unlined landfill. Individual DRO (such as Fuel Oil #2/Diesel Fuel, Fuel Oil #4, Fuel Oil #6, Kerosene, Motor Oil, Unidentified) were not detected. There are no comparison parameters for TPH GRO; however, TPH GRO was also not detected in the samples. **Refer to Table 1E** within Attachment A.

Pesticides

For Sample B1B8 TS, there were neither exceedances of the MCP RCS-1 Criteria for individual pesticides nor exceedances of the MCP RCS-2 Criteria for individual pesticides. COMM-97-001 does not provide regulatory criteria for pesticides. **Refer to Table 1F** within Attachment A.

Herbicides

For Sample B1B8 TS, there were neither exceedances of the MCP RCS-1 Criteria for individual herbicides nor exceedances of the MCP RCS-2 Criteria for individual herbicides. COMM-97-001 does not provide regulatory criteria for herbicides. **Refer to Table 1G** within Attachment A.

General Chemistry

For the following Samples: B3B4B5 DRY; B1 DRY; B2 DRY; B6 DRY; B6B8 WET; B1B7 WET; and B2 WET, there were neither exceedances of Conductivity for acceptance at a lined landfill nor exceedances of Conductivity for acceptance at an unlined landfill. There were no exceedances of RCRA Characteristics for flashpoint/ignitability. Flashpoint/ignitability passed. There were no exceedances of RCRA Characteristics for pH. There were no exceedances of RCRA Characteristics for reactivity. Reactivity was Negative. **Refer to Table 1H** within Attachment A.

The Massachusetts Contingency Plan: 310 CMR 40.00

According to 310 CMR 40.0317: Releases and Threats of Release Which Do Not Require Notification, PEER understands that notwithstanding the provisions of 310 CMR 40.0311 through 310 CMR 40.0315, the following releases and threats of release of oil and/or hazardous material are exempt from the notification requirements set forth in 310 CMR 40.0300:

(22) arsenic, beryllium or nickel in Boston Blue Clay or **arsenic in an area documented by the U.S. Geological Survey or in other scientific literature as an area of elevated arsenic measured in soil or groundwater** that -

(a) is consistently present in the environment at and in the vicinity of the sampling location;

(b) is solely attributable to natural geologic or ecologic conditions; and

(c) has not been mobilized or transferred to another environmental medium or increased in concentration in an environmental medium as a result of anthropogenic activities.

PEER understands that as of the date of this Memorandum, PEER is aware of a Fill Management Plan prepared by Parker Environmental Corporation on behalf of Lighthouse Environmental Management, LLC (LEM) in support of a **Fill Project** at the property located on Parcel 35-D 1.2-0 on Stafford Street in Leicester, Massachusetts.

PEER further understands that as of the date of this Memorandum, PEER is aware that anticipated sources of fill material for the **Fill Project** include large volumes of excess soil from excavation and construction projects in Massachusetts with elevated levels of naturally occurring arsenic. The intended fill materials include native and reworked sand, gravel, rock and clay with elevated levels of naturally occurring arsenic. It is anticipated that completion of the fill Project will involve importation of approximately 95,000 cubic yards of material, and take approximately 5 years to complete based on available sources of fill materials. Anticipated sources of fill material include large volumes of excess soil from excavation and construction projects in Massachusetts with elevated levels of naturally occurring arsenic.

Initial Recommendations

As described above, PEER shadowed the geotechnical contractor during the advancement of eight geotechnical soil borings located proximate to the location of the proposed Wildwood School at North Intermediate School, in Wilmington, MA, and collected geo-environmental soil samples concurrent with the geotechnical boring advancement. PEER understands that the eight borings which were advanced proximate to the location of the proposed Wildwood School at North Intermediate School may not necessarily be representative of other soil boring profiles which may be advanced at other locations on the project site during future phases of this proposed project.

Therefore, PEER recommends that additional pre-characterization sampling of the subsurface soil in borings and/or test pits be completed once the exact location of the proposed building is determined and/or once

the location of utility runs requiring excavation and soil management is determined, and/or once the depths and locations of any other excavations related to site infrastructure are known.

Furthermore, should it be determined that the existing North Intermediate School will be demolished as part of any future development of a new school, PEER recommends that additional pre-characterization sampling of the subsurface soil in borings and/or test pits be completed within the parking lot (and paved areas) associated with the building, and proximate to the existing footprint of the building nearest the boiler room, and beneath the current building.

In addition, as it relates to the potential need for project-based dewatering activities (based on the estimated groundwater elevation beneath the project site, and based on the observation of wetlands and waterways on and near the project site), should a construction general permit or a remediation general permit be required for this activity, PEER recommends considering the implementation of a sampling and analysis program for groundwater through the installation of temporary groundwater monitoring wells during any additional subsurface soil investigation, and prior to site redevelopment.

Please contact us directly at 781.238.8880, should you have any questions or require any clarification on this Limited Subsurface Soil Investigation Memorandum at the Wildwood School at North Intermediate School, in Wilmington, MA.

Sincerely,

PEER Consultants, P.C.

David Gorden, BCES
Environmental Science Program Manager

Attachment A

Table 1A - Volatile Organic Compounds
(Detected Analytes)
North Intermediate Elementary School
320 Salem Street
Wilmington, Massachusetts

Lab Sample Id						CR96234		CR96235		CR96236		CR96237		CR96238		CR96239		CR96240		CR96241		CR96242	
Collection Date						10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024	
Client Id						B1B8 TS		B3B4B5 DRY		B1 DRY		B2 DRY		B6 DRY		B8 DRY		B6B8 WET		B1B7 WET		B2 WET	
Matrix						Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
	Units	2024 MCP RCS-1	2024 MCP RCS-2	COMM-97-001 Lined Landfill	COMM-97-001 Unlined Landfill	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Volatiles By SW8260D																							
Total VOCs	ug/Kg	NL	NL	10,000	4,000	NS		--		--		--		--		--		--		--		NS	

-- = Analyte not detected in soil sample.
NS = VOCs were not sampled for in this sample.
NL = The MCP does not list a standard for this.
There were no detections of individual VOCs.
There were no exceedances of the MCP RCS-1 Criteria for an individual VOC.
There were no exceedances of the MCP RCS-2 Criteria for an individual VOC.
There were no exceedances of Total VOCs for acceptance at a lined landfill.
There were no exceedances of Total VOCs for acceptance at an unlined landfill.

Table 1B - Semivolatile Organic Compounds
(Detected Analytes)
North Intermediate Elementary School
320 Salem Street
Wilmington, Massachusetts

Lab Sample Id						CR96234		CR96235		CR96236		CR96237		CR96238		CR96239		CR96240		CR96241		CR96242	
Collection Date						10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024	
Client Id						B1B8 TS		B3B4B5 DRY		B1 DRY		B2 DRY		B6 DRY		B8 DRY		B6B8 WET		B1B7 WET		B2 WET	
Matrix						Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
	2024 MCP	2024 MCP	COMM-97-001 Lined	COMM-97-001 Unlined																			
Units	RCS-1	RCS-2	Landfill	Landfill		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Semivolatiles By SW8270E																							
Total SVOCs	ug/Kg	NL	NL	100,000	100,000	NS		--		--		--		--		--		--		--		--	

-- = Analyte not detected in soil sample.
NS = SVOCs were not sampled for in this sample.
NL = The MCP does not list a standard for this.
There were no detections of individual SVOCs.
There were no exceedances of the MCP RCS-1 Criteria for an individual SVOC.
There were no exceedances of the MCP RCS-2 Criteria for an individual SVOC.
There were no exceedances of Total SVOCs for acceptance at a lined landfill.
There were no exceedances of Total SVOCs for acceptance at an unlined landfill.

Table 1C - Metals
(Detected Analytes)
North Intermediate Elementary School
320 Salem Street
Wilmington, Massachusetts

Lab Sample Id						CR96234		CR96235		CR96236		CR96237		CR96238		CR96239		CR96240		CR96241		CR96242	
Collection Date						10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024	
Client Id						B1B8 TS		B3B4B5 DRY		B1 DRY		B2 DRY		B6 DRY		B8 DRY		B6B8 WET		B1B7 WET		B2 WET	
Matrix						Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
		2024 MCP	2024 MCP	COMM-97-001 Lined	COMM-97-001 Unlined																		
Units		RCS-1	RCS-2	Landfill	Landfill	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Metals, Total																							
Antimony	mg/Kg	20	40	NL	NL	NS		--		--		--		--		--		--		--		--	
Arsenic	mg/Kg	20	20	40	40	15	0.78	14.5	0.69	8.41	0.68	6.45	0.71	54.3	0.72	20.3	0.69	26.6	0.73	16.5	0.84	20.2	0.80
Barium	mg/Kg	1,000	3,000	NL	NL	NS		22.8	0.35	23.1	0.34	9.43	0.35	16.1	0.36	21.6	0.35	19.3	0.37	18.9	0.42	15	0.40
Beryllium	mg/Kg	100	200	NL	NL	NS		0.28	0.28	0.62	0.27	0.33	0.28	0.29	0.29	0.4	0.28	< 0.29	0.29	< 0.34	0.34	< 0.32	0.32
Cadmium	mg/Kg	80	80	80	30	NS		--		--		--		--		--		--		--		--	
Chromium	mg/Kg	100	200	1,000	1,000	NS		16.6	0.35	13.8	0.34	16.2	0.35	13.4	0.36	23.2	0.35	10.4	0.37	14.4	0.42	12.3	0.40
Lead	mg/Kg	200	600	2,000	1,000	NS		5.27	0.35	10.2	0.34	5.15	0.35	10.2	0.36	8.14	0.35	3.58	0.37	4.65	0.42	3.55	0.40
Mercury	mg/Kg	20	40	10	10	NS		--		0.05	0.03	--		--		--		--		--		--	
Nickel	mg/Kg	700	1,000	NL	NL	NS		6.85	0.35	7.47	0.34	8.6	0.35	6.48	0.36	9.35	0.35	8.74	0.37	9.23	0.42	8.57	0.40
Selenium	mg/Kg	400	800	NL	NL	NS		--		--		--		--		--		--		--		--	
Silver	mg/Kg	100	200	NL	NL	NS		--		--		--		--		--		--		--		--	
Thallium	mg/Kg	8	70	NL	NL	NS		--		--		--		--		--		--		--		--	
Vanadium	mg/Kg	500	800	NL	NL	NS		12.6	0.35	15.7	0.34	10.2	0.35	11.7	0.36	14.7	0.35	12.4	0.37	12.2	0.42	10.4	0.40
Zinc	mg/Kg	1,000	3,000	NL	NL	NS		15.1	0.7	25.1	0.7	13	0.7	11	0.7	16.2	0.7	17.1	0.7	14.7	0.8	17.4	0.8

-- = Analyte not detected in soil sample.
NS = Metals were not sampled for in this sample.
NL = COMM-97-001 does not list a standard for this metal.
There were four exceedances of the MCP RCS-1 Criteria for individual Metals (arsenic) and four exceedances of the MCP RCS-2 Criteria for individual Metals (arsenic).
There was one exceedance of a metal (arsenic) for acceptance at a lined landfill and one exceedance of a metal (arsenic) for acceptance at an unlined landfill.

According to the publication "Arsenic and Uranium in Water from Private Wells Completed in Bedrock of East-Central Massachusetts—Concentrations, Correlations with Bedrock Units, and Estimated Probability Maps", by the United States Geological Service, Prepared in cooperation with the Massachusetts Department of Environmental Protection and the Massachusetts Department of Public Health, and dated 2011. The distribution of bedrock units of crystalline igneous and metamorphic rocks in the study area is complex. The study area is crossed by major faults that divide parts of three geologic terranes that include the Merrimack belt, the Nashoba zone and the Milford-Dedham zone. The primary study area includes most of the Merrimack belt, which extends from the Connecticut Valley belt (indicated by the Merrimack belt western boundary) to the Clinton-Newbury fault, and the western half of the Nashoba zone, which extends from the Clinton-Newbury fault to the Bloody Bluff fault. The secondary study area includes the remainder of the Nashoba zone and the western edge of the Milford-Dedham zone, which begins at the Bloody Bluff fault and extends to the east. According to a Probability of Exceeding the Arsenic Drinking Water Standard in Private Drinking Water Wells in Massachusetts, a Map which accompanies the Publication, Wilmington in general appears in the ORANGE highlighted Section, inferring that Wilmington has a 5-10% probability of exceeding the public drinking water standard (of 10 parts per billion) for Arsenic in its groundwater.

Table 1D - Polychlorinated Biphenyls
(Detected Analytes)
North Intermediate Elementary School
320 Salem Street
Wilmington, Massachusetts

Lab Sample Id						CR96234		CR96235		CR96236		CR96237		CR96238		CR96239		CR96240		CR96241		CR96242	
Collection Date						10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024	
Client Id						B1B8 TS		B3B4B5 DRY		B1 DRY		B2 DRY		B6 DRY		B8 DRY		B6B8 WET		B1B7 WET		B2 WET	
Matrix						Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
		2024 MCP	2024 MCP	COMM-97-001 Lined	COMM-97-001 Unlined																		
Units		RCS-1	RCS-2	Landfill	Landfill	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
PCBs By SW8082A																							
Total PCBs		NL	NL	<2,000	<2,000	NS		--		--		--		--		--		--		--		--	

-- = Analyte not detected in soil sample.
NS = PCBs were not sampled for in this sample.
NL = The MCP does not list a standard for this.
There were neither exceedances of the MCP RCS-1 Criteria for individual Aroclors nor exceedances of the MCP RCS-2 Criteria for individual Aroclors.
There were neither exceedances of Total PCBs for acceptance at a lined landfill nor exceedances of Total PCBs for acceptance at an unlined landfill.

Table 1E - Total Petroleum Hydrocarbons
(Detected Analytes)
North Intermediate Elementary School
320 Salem Street
Wilmington, Massachusetts

Lab Sample Id						CR96234		CR96235		CR96236		CR96237		CR96238		CR96239		CR96240		CR96241		CR96242	
Collection Date						10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024	
Client Id						B1B8 TS		B3B4B5 DRY		B1 DRY		B2 DRY		B6 DRY		B8 DRY		B6B8 WET		B1B7 WET		B2 WET	
Matrix						Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
	Units	2024 MCP RCS-1	2024 MCP RCS-2	COMM-97-001 Lined Landfill	COMM-97-001 Unlined Landfill	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
TPH By SW8015D DRO																							
Total TPH	mg/kg	1,000	3,000	5,000	2,000	NS		--		--		--		--		--		--		--		--	
Gasoline Range Hydrocarbons (C6-C10) By SW8015D GRO																							
GRO (C6-C10)	mg/Kg	NL	NL	NL	NL	NS		--		--		--		--		--		--		--		--	

-- = Analyte not detected in soil sample.
NS = TPHs were not sampled for in this sample.
NL = The MCP and COMM-97-001 do not list a standard for this.
TPH DRO included Fuel Oil #2/Diesel Fuel, Fuel Oil #4, Fuel Oil #6, Kerosene, Motor Oil, Unidentified
GRO included gasoline range organics (C6-C10).
There were neither exceedances of the MCP RCS-1 Criteria for Total TPH DRO nor exceedances of the MCP RCS-2 Criteria for Total TPH DRO.
There were neither exceedances of TPH DRO for acceptance at a lined landfill nor exceedances of TPH DRO for acceptance at an unlined landfill.

Table 1F - Pesticides
(Detected Analytes)
North Intermediate Elementary School
320 Salem Street
Wilmington, Massachusetts

Lab Sample Id						CR96234		CR96235		CR96236		CR96237		CR96238		CR96239		CR96240		CR96241		CR96242	
Collection Date						10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024	
Client Id						B1B8 TS		B3B4B5 DRY		B1 DRY		B2 DRY		B6 DRY		B8 DRY		B6B8 WET		B1B7 WET		B2 WET	
Matrix						Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Units	2024 MCP RCS-1	2024 MCP RCS-2	COMM-97-001 Lined Landfill	COMM-97-001 Unlined Landfill		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Pesticides By SW8081B																							
	ug/Kg			NL	NL	--		NS		NS		NS		NS		NS		NS		NS		NS	

There were no detections of Pesticides for the soil sample (B1B8 TS) analyzed.
-- = Analyte not detected in soil sample.
There were neither exceedances of MCP RCS-1 criteria for individual pesticides nor exceedances of MCP RCS-2 criteria for individual pesticides.
COMM-97-001 does not provide regulatory criteria for pesticides.
NS = Pesticides were not sampled for in this sample.

Table 1G - Herbicides
(Detected Analytes)
North Intermediate Elementary School
320 Salem Street
Wilmington, Massachusetts

Lab Sample Id						CR96234		CR96235		CR96236		CR96237		CR96238		CR96239		CR96240		CR96241		CR96242	
Collection Date						10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024	
Client Id						B1B8 TS		B3B4B5 DRY		B1 DRY		B2 DRY		B6 DRY		B8 DRY		B6B8 WET		B1B7 WET		B2 WET	
Matrix						Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
	2024 MCP	2024 MCP	COMM-97-001 Lined	COMM-97-001 Unlined																			
Units	RCS-1	RCS-2	Landfill	Landfill		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Chlorinated Herbicides By SW8151A																							
	ug/Kg			NL	NL	--		NS		NS		NS		NS		NS		NS		NS		NS	

There were no detections of Herbicides for the soil sample (B1B8 TS) analyzed.
-- = Analyte not detected in soil sample.
There were neither exceedances of MCP RCS-1 criteria for individual herbicides nor exceedances of MCP RCS-2 criteria for individual herbicides.
COMM-97-001 does not provide regulatory criteria for herbicides.
NS = Herbicides were not sampled for in this sample.

Table 1H - General Chemistry
(Detected Analytes)
North Intermediate Elementary School
320 Salem Street
Wilmington, Massachusetts

Lab Sample Id							CR96234		CR96235		CR96236		CR96237		CR96238		CR96239		CR96240		CR96241		CR96242	
Collection Date							10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024		10/29/2024	
Client Id							B1B8 TS		B3B4B5 DRY		B1 DRY		B2 DRY		B6 DRY		B8 DRY		B6B8 WET		B1B7 WET		B2 WET	
Matrix							Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
	Units	2024 MCP RCS-1	2024 MCP RCS-2	RCRA Characteristics 40 CFR 261	COMM-97-001 Lined Landfill	COMM-97-001 Unlined Landfill	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Miscellaneous/Inorganics																								
Percent Solid	%	NL	NL	NL	NL	NL	89		94		94		93		97		94		90		80		89	
Conductivity - Soil Matrix	umhos/cm	NL	NL	NL	8,000	4,000	NS		25	5	31	5	27	5	24	5	33	5	34	5	27	5	30	5
Corrosivity	Pos/Neg	NL	NL	NL	NL	NL	NS		Negative		Negative		Negative		Negative		Negative		Negative		Negative		Negative	
Flash Point	Degree F	NL	NL	≤ 140	NL	NL	NS		>200	200	>200	200	>200	200	>200	200	>200	200	>200	200	>200	200	>200	200
Ignitability	degree F	NL	NL	≤ 140	NL	NL	NS		Passed	140	Passed	140	Passed	140	Passed	140	Passed	140	Passed	140	Passed	140	Passed	140
pH at 25C - Soil	pH Units	NL	NL	≤ 2 and ≥ 12.5	NL	NL	NS		7.58	1.00	6.37	1.00	5.67	1.00	6.71	1.00	6.77	1.00	7.08	1.00	6.6	1.00	6.77	1.00
Reactivity Cyanide	mg/Kg	NL	NL	40 CFR 261.23	NL	NL	NS		< 5	5	< 5	5	< 5	5	< 5	5	< 5	5	< 5	5	< 6	6	< 6	6
Reactivity Sulfide	mg/Kg	NL	NL	40 CFR 261.23	NL	NL	NS		< 20	20	< 20	20	< 20	20	< 20	20	< 20	20	< 20	20	< 20	20	< 20	20
Reactivity	Pos/Neg	NL	NL	40 CFR 261.23	NL	NL	NS		Negative		Negative		Negative		Negative		Negative		Negative		Negative		Negative	

NL = The MCP and COMM-97-001 do not list a standard for this constituent.
NS = Constituent was not sampled for in this sample.
There were neither exceedances of Conductivity for acceptance at a lined landfill nor exceedances of Conductivity for acceptance at an unlined landfill.
There were no exceedances of RCRA Characteristics for flashpoint/ignitability. Flashpoint/ignitability passed.
There were no exceedances of RCRA Characteristics for pH.
There were no exceedances of RCRA Characteristics for reactivity. Reactivity was Negative.

Attachment B

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

Analysis Report

November 14, 2024

FOR: Attn: Mr Dave Gorden
PEER Consultants
25 Mall Road, Suite 206
Burlington, MA 01803

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/29/24	16:50
Location Code:	PEER	Received by:	SR1	10/30/24	14:37
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	8593				

Laboratory Data

SDG ID: GCR96234
Phoenix ID: CR96234

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: B1B8 TS

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	15.0	0.78	mg/Kg	1	11/14/24	TH	SW6010D
Percent Solid	89		%		10/30/24	CV	SW846-%Solid
Soil Extraction for Herbicide	Completed				11/01/24	X/A/D	SW3546
Soil Extraction for Pesticide	Completed				10/31/24	J/T	SW3546
Total Metals Digest	Completed				11/13/24	P/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	140	ug/Kg	10	11/05/24	JRB	SW8151A
2,4,5-TP (Silvex)	ND	140	ug/Kg	10	11/05/24	JRB	SW8151A
2,4-D	ND	280	ug/Kg	10	11/05/24	JRB	SW8151A
2,4-DB	ND	1400	ug/Kg	10	11/05/24	JRB	SW8151A
Dalapon	ND	140	ug/Kg	10	11/05/24	JRB	SW8151A
Dicamba	ND	140	ug/Kg	10	11/05/24	JRB	SW8151A
Dichloroprop	ND	210	ug/Kg	10	11/05/24	JRB	SW8151A
Dinoseb	ND	140	ug/Kg	10	11/05/24	JRB	SW8151A
MCPA	ND	42000	ug/Kg	10	11/05/24	JRB	SW8151A
MCPP	ND	42000	ug/Kg	10	11/05/24	JRB	SW8151A
QA/QC Surrogates							
% DCAA	136		%	10	11/05/24	JRB	30 - 150 %
% DCAA (Confirmation)	138		%	10	11/05/24	JRB	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
4,4' -DDE	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
4,4' -DDT	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: B1B8 TS

Phoenix I.D.: CR96234

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aldrin	ND	3.7	ug/Kg	2	11/04/24	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
Chlordane	ND	15	ug/Kg	2	11/04/24	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	11/04/24	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	11/04/24	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	11/04/24	AW	SW8081B
Hexachlorobenzene	ND	3.7	ug/Kg	2	11/04/24	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	11/04/24	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	11/04/24	AW	SW8081B
QA/QC Surrogates							
% DCBP	92		%	2	11/04/24	AW	30 - 150 %
% DCBP (Confirmation)	49		%	2	11/04/24	AW	30 - 150 %
% TCMX	71		%	2	11/04/24	AW	30 - 150 %
% TCMX (Confirmation)	65		%	2	11/04/24	AW	30 - 150 %

Massachusetts does not offer certification for Soil/Solid matrices.

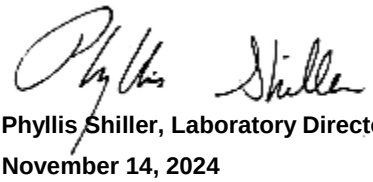
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Herbicide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL.

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
November 14, 2024
Official Report Release To Follow

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

Analysis Report

November 14, 2024

FOR: Attn: Mr Dave Gorden
PEER Consultants
25 Mall Road, Suite 206
Burlington, MA 01803

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/29/24	17:01
Location Code:	PEER	Received by:	SR1	10/30/24	14:37
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	8593				

Laboratory Data

SDG ID: GCR96234
Phoenix ID: CR96235

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: B3B4B5 DRY

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Arsenic	14.5	0.69	mg/Kg	1	11/01/24	TH	SW6010D
Barium	22.8	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Beryllium	0.28	0.28	mg/Kg	1	11/01/24	TH	SW6010D
Cadmium	< 0.35	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Chromium	16.6	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/31/24	AL1	SW7471B
Nickel	6.85	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Lead	5.27	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	11/01/24	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	11/01/24	TH	SW6010D
Thallium	< 3.1	3.1	mg/Kg	1	11/01/24	TH	SW6010D
Vanadium	12.6	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Zinc	15.1	0.7	mg/Kg	1	11/01/24	TH	SW6010D
Percent Solid	94		%		10/30/24	CV	SW846-%Solid
Conductivity - Soil Matrix	25	5	umhos/cm	1	10/30/24	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	10/30/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	11/04/24	G	SW1010B
Ignitability	Passed	140	degree F	1	11/04/24	G	SW846-Ignit
pH at 25C - Soil	7.58	1.00	pH Units	1	10/30/24 22:09	MW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	11/04/24	E/N/G	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	11/04/24	EG/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	11/04/24	EG/GD	SW846-React
Field Extraction	Completed				10/29/24		SW5035A
Mercury Digestion	Completed				10/31/24	AC1/AC1	SW7471B
Extraction of ETPH	Completed				10/31/24	H/T	SW3546
Soil Extraction for PCB	Completed				10/31/24	H/U	SW3546

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for SVOA	Completed				10/31/24	J/T	SW3546
Total Metals Digest	Completed				10/30/24	J/AG	SW3050B
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	5.6	mg/Kg	50	10/31/24	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	96		%	50	10/31/24	V	70 - 130 %
Polychlorinated Biphenyls							
PCB-1016	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1221	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1232	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1242	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1248	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1254	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1260	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1262	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1268	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	80		%	2	11/01/24	SC	30 - 150 %
% DCBP (Confirmation)	79		%	2	11/01/24	SC	30 - 150 %
% TCMX	79		%	2	11/01/24	SC	30 - 150 %
% TCMX (Confirmation)	72		%	2	11/01/24	SC	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	52	mg/Kg	1	11/01/24	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	99		%	1	11/01/24	JRB	50 - 150 %
% Terphenyl (surr)	101		%	1	11/01/24	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloropropene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.54	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: B3B4B5 DRY

Phoenix I.D.: CR96235

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
2,2-Dichloropropane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
2-Chlorotoluene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
2-Hexanone	ND	27	ug/Kg	1	11/01/24	JLI	SW8260D
2-Isopropyltoluene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
4-Chlorotoluene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	27	ug/Kg	1	11/01/24	JLI	SW8260D
Acetone	ND	270	ug/Kg	1	11/01/24	JLI	SW8260D
Acrylonitrile	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Benzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Bromobenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Bromochloromethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Bromodichloromethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Bromoform	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Bromomethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon Disulfide	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon tetrachloride	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Chlorobenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroform	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Chloromethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromochloromethane	ND	3.3	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromomethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Ethylbenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Hexachlorobutadiene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Isopropylbenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
m&p-Xylene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	33	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Methylene chloride	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Naphthalene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
n-Butylbenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
n-Propylbenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
o-Xylene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
sec-Butylbenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Styrene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
tert-Butylbenzene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrachloroethene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Toluene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Total Xylenes	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Trichloroethene	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorofluoromethane	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Vinyl chloride	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	11/01/24	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	11/01/24	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	11/01/24	JLI	70 - 130 %
% Toluene-d8	91		%	1	11/01/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	110	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Diethyl ether	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Di-isopropyl ether	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	5.4	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Semivolatiles							
1,1-Biphenyl	ND	50	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Dichlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
1,3-Dichlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
1,4-Dichlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dichlorophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dimethylphenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrophenol	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrotoluene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,6-Dinitrotoluene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Chloronaphthalene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Chlorophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylnaphthalene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitroaniline	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitrophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
3-Nitroaniline	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloroaniline	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitroaniline	ND	550	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitrophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthylene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Aniline	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Anthracene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benz(a)anthracene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzidine	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(a)pyrene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(b)fluoranthene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(ghi)perylene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(k)fluoranthene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzoic acid	ND	690	ug/Kg	1	11/01/24	MR	SW8270E
Benzyl butyl phthalate	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Carbazole	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Chrysene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Dibenzofuran	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Diethyl phthalate	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Dimethylphthalate	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-butylphthalate	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-octylphthalate	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Fluoranthene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Fluorene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobutadiene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Hexachloroethane	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Isophorone	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Naphthalene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Nitrobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodimethylamine	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Pentachloronitrobenzene	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Pentachlorophenol	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Phenanthrene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Phenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Pyrene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Pyridine	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	76		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorobiphenyl	77		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorophenol	66		%	1	11/01/24	MR	30 - 130 %
% Nitrobenzene-d5	67		%	1	11/01/24	MR	30 - 130 %
% Phenol-d5	66		%	1	11/01/24	MR	30 - 130 %
% Terphenyl-d14	71		%	1	11/01/24	MR	30 - 130 %

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

Massachusetts does not offer certification for Soil/Solid matrices.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

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

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

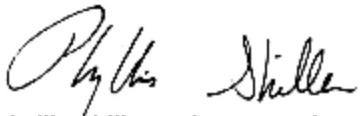
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

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

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

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



Phyllis Shiller, Laboratory Director
November 14, 2024
Official Report Release To Follow

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

Analysis Report

November 14, 2024

FOR: Attn: Mr Dave Gorden
PEER Consultants
25 Mall Road, Suite 206
Burlington, MA 01803

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/29/24	17:22
Location Code:	PEER	Received by:	SR1	10/30/24	14:37
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	8593				

Laboratory Data

SDG ID: GCR96234
Phoenix ID: CR96236

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: B1 DRY

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	11/01/24	TH	SW6010D
Arsenic	8.41	0.68	mg/Kg	1	11/01/24	TH	SW6010D
Barium	23.1	0.34	mg/Kg	1	11/01/24	TH	SW6010D
Beryllium	0.62	0.27	mg/Kg	1	11/01/24	TH	SW6010D
Cadmium	< 0.34	0.34	mg/Kg	1	11/01/24	TH	SW6010D
Chromium	13.8	0.34	mg/Kg	1	11/01/24	TH	SW6010D
Mercury	0.05	0.03	mg/Kg	2	10/31/24	AL1	SW7471B
Nickel	7.47	0.34	mg/Kg	1	11/01/24	TH	SW6010D
Lead	10.2	0.34	mg/Kg	1	11/01/24	TH	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	11/01/24	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	11/01/24	TH	SW6010D
Thallium	< 3.1	3.1	mg/Kg	1	11/01/24	TH	SW6010D
Vanadium	15.7	0.34	mg/Kg	1	11/01/24	TH	SW6010D
Zinc	25.1	0.7	mg/Kg	1	11/01/24	TH	SW6010D
Percent Solid	94		%		10/30/24	CV	SW846-%Solid
Conductivity - Soil Matrix	31	5	umhos/cm	1	10/30/24	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	10/30/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	11/04/24	G	SW1010B
Ignitability	Passed	140	degree F	1	11/04/24	G	SW846-Ignit
pH at 25C - Soil	6.37	1.00	pH Units	1	10/30/24 22:09	MW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	11/04/24	E/N/G	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	11/04/24	EG/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	11/04/24	EG/GD	SW846-React
Field Extraction	Completed				10/29/24		SW5035A
Mercury Digestion	Completed				10/31/24	AC1/AC1	SW7471B
Extraction of ETPH	Completed				10/31/24	H/T	SW3546
Soil Extraction for PCB	Completed				10/31/24	H/U	SW3546

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for SVOA	Completed				10/31/24	/U	SW3546
Total Metals Digest	Completed				10/30/24	J/AG	SW3050B
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	5.7	mg/Kg	50	10/31/24	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	93		%	50	10/31/24	V	70 - 130 %
Polychlorinated Biphenyls							
PCB-1016	ND	69	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1221	ND	69	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1232	ND	69	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1242	ND	69	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1248	ND	69	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1254	ND	69	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1260	ND	69	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1262	ND	69	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1268	ND	69	ug/Kg	2	11/01/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	2	11/01/24	SC	30 - 150 %
% DCBP (Confirmation)	69		%	2	11/01/24	SC	30 - 150 %
% TCMX	71		%	2	11/01/24	SC	30 - 150 %
% TCMX (Confirmation)	65		%	2	11/01/24	SC	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	52	mg/Kg	1	11/01/24	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	85		%	1	11/01/24	JRB	50 - 150 %
% Terphenyl (surr)	87		%	1	11/01/24	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	4.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloropropene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.71	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloroethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloropropane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichloropropane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
2,2-Dichloropropane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
2-Chlorotoluene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
2-Hexanone	ND	36	ug/Kg	1	11/01/24	JLI	SW8260D
2-Isopropyltoluene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
4-Chlorotoluene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	36	ug/Kg	1	11/01/24	JLI	SW8260D
Acetone	ND	360	ug/Kg	1	11/01/24	JLI	SW8260D
Acrylonitrile	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Benzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Bromobenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Bromochloromethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Bromodichloromethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Bromoform	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Bromomethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon Disulfide	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon tetrachloride	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Chlorobenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroform	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Chloromethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromochloromethane	ND	4.3	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromomethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Dichlorodifluoromethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Ethylbenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Hexachlorobutadiene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Isopropylbenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
m&p-Xylene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	43	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	11/01/24	JLI	SW8260D
Methylene chloride	ND	14	ug/Kg	1	11/01/24	JLI	SW8260D
Naphthalene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
n-Butylbenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
n-Propylbenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
o-Xylene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
p-Isopropyltoluene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
sec-Butylbenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Styrene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
tert-Butylbenzene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrachloroethene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	11/01/24	JLI	SW8260D
Toluene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Total Xylenes	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	11/01/24	JLI	SW8260D
Trichloroethene	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorofluoromethane	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	14	ug/Kg	1	11/01/24	JLI	SW8260D
Vinyl chloride	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	11/01/24	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	11/01/24	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	11/01/24	JLI	70 - 130 %
% Toluene-d8	91		%	1	11/01/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	140	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Diethyl ether	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Di-isopropyl ether	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	7.1	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Semivolatiles							
1,1-Biphenyl	ND	50	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Dichlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
1,3-Dichlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
1,4-Dichlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dichlorophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dimethylphenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrophenol	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrotoluene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,6-Dinitrotoluene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Chloronaphthalene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Chlorophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylnaphthalene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitroaniline	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitrophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
3-Nitroaniline	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloroaniline	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitroaniline	ND	550	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitrophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthylene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Aniline	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Anthracene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benz(a)anthracene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzidine	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(a)pyrene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(b)fluoranthene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(ghi)perylene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(k)fluoranthene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzoic acid	ND	690	ug/Kg	1	11/01/24	MR	SW8270E
Benzyl butyl phthalate	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Carbazole	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Chrysene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Dibenzofuran	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Diethyl phthalate	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Dimethylphthalate	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-butylphthalate	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-octylphthalate	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Fluoranthene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Fluorene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobutadiene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Hexachloroethane	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Isophorone	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Naphthalene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Nitrobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodimethylamine	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Pentachloronitrobenzene	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Pentachlorophenol	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Phenanthrene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Phenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Pyrene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Pyridine	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	65		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorobiphenyl	51		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorophenol	50		%	1	11/01/24	MR	30 - 130 %
% Nitrobenzene-d5	49		%	1	11/01/24	MR	30 - 130 %
% Phenol-d5	47		%	1	11/01/24	MR	30 - 130 %
% Terphenyl-d14	49		%	1	11/01/24	MR	30 - 130 %

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

Massachusetts does not offer certification for Soil/Solid matrices.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

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

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

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

Phyllis Shiller, Laboratory Director
November 14, 2024
Official Report Release To Follow

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

Analysis Report

November 14, 2024

FOR: Attn: Mr Dave Gorden
PEER Consultants
25 Mall Road, Suite 206
Burlington, MA 01803

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/29/24	17:51
Location Code:	PEER	Received by:	SR1	10/30/24	14:37
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	8593				

Laboratory Data

SDG ID: GCR96234
Phoenix ID: CR96237

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: B2 DRY

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Arsenic	6.45	0.71	mg/Kg	1	11/01/24	TH	SW6010D
Barium	9.43	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Beryllium	0.33	0.28	mg/Kg	1	11/01/24	TH	SW6010D
Cadmium	< 0.35	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Chromium	16.2	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/31/24	AL1	SW7471B
Nickel	8.60	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Lead	5.15	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	11/01/24	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	11/01/24	TH	SW6010D
Thallium	< 3.2	3.2	mg/Kg	1	11/01/24	TH	SW6010D
Vanadium	10.2	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Zinc	13.0	0.7	mg/Kg	1	11/01/24	TH	SW6010D
Percent Solid	93		%		10/30/24	CV	SW846-%Solid
Conductivity - Soil Matrix	27	5	umhos/cm	1	10/30/24	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	10/30/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	11/04/24	G	SW1010B
Ignitability	Passed	140	degree F	1	11/04/24	G	SW846-Ignit
pH at 25C - Soil	5.67	1.00	pH Units	1	10/30/24 22:09	MW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	11/04/24	E/N/G	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	11/04/24	EG/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	11/04/24	EG/GD	SW846-React
Field Extraction	Completed				10/29/24		SW5035A
Mercury Digestion	Completed				10/31/24	AC1/AC1	SW7471B
Extraction of ETPH	Completed				10/31/24	H/T	SW3546
Soil Extraction for PCB	Completed				10/31/24	H/U	SW3546

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for SVOA	Completed				10/31/24	/U	SW3546
Total Metals Digest	Completed				10/30/24	J/AG	SW3050B
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	6.7	mg/Kg	50	10/31/24	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	95		%	50	10/31/24	V	70 - 130 %
Polychlorinated Biphenyls							
PCB-1016	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1221	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1232	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1242	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1248	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1254	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1260	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1262	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1268	ND	71	ug/Kg	2	11/01/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	69		%	2	11/01/24	SC	30 - 150 %
% DCBP (Confirmation)	66		%	2	11/01/24	SC	30 - 150 %
% TCMX	66		%	2	11/01/24	SC	30 - 150 %
% TCMX (Confirmation)	60		%	2	11/01/24	SC	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	53	mg/Kg	1	11/01/24	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	94		%	1	11/01/24	JRB	50 - 150 %
% Terphenyl (surr)	94		%	1	11/01/24	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloropropene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.66	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloroethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloropropane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichloropropane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
2,2-Dichloropropane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
2-Chlorotoluene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
2-Hexanone	ND	33	ug/Kg	1	11/01/24	JLI	SW8260D
2-Isopropyltoluene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
4-Chlorotoluene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	33	ug/Kg	1	11/01/24	JLI	SW8260D
Acetone	ND	330	ug/Kg	1	11/01/24	JLI	SW8260D
Acrylonitrile	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Benzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Bromobenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Bromochloromethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Bromodichloromethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Bromoform	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Bromomethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon Disulfide	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon tetrachloride	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Chlorobenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroform	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Chloromethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromochloromethane	ND	3.9	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromomethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Dichlorodifluoromethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Ethylbenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Hexachlorobutadiene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Isopropylbenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
m&p-Xylene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	39	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	11/01/24	JLI	SW8260D
Methylene chloride	ND	13	ug/Kg	1	11/01/24	JLI	SW8260D
Naphthalene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
n-Butylbenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
n-Propylbenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
o-Xylene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
p-Isopropyltoluene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
sec-Butylbenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Styrene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
tert-Butylbenzene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrachloroethene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	11/01/24	JLI	SW8260D
Toluene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Total Xylenes	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	11/01/24	JLI	SW8260D
Trichloroethene	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorofluoromethane	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	13	ug/Kg	1	11/01/24	JLI	SW8260D
Vinyl chloride	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	11/01/24	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	11/01/24	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	11/01/24	JLI	70 - 130 %
% Toluene-d8	92		%	1	11/01/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	130	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Diethyl ether	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Di-isopropyl ether	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	6.6	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Semivolatiles							
1,1-Biphenyl	ND	50	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrophenol	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrotoluene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,6-Dinitrotoluene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Chloronaphthalene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitroaniline	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
3-Nitroaniline	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloroaniline	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitroaniline	ND	560	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: B2 DRY

Phoenix I.D.: CR96237

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Aniline	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Anthracene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzidine	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzoic acid	ND	700	ug/Kg	1	11/01/24	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Carbazole	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Chrysene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Dibenzofuran	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-butylphthalate	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Fluoranthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobutadiene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Nitrobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodimethylamine	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Pentachloronitrobenzene	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Pentachlorophenol	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Phenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Pyrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Pyridine	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	65		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorobiphenyl	51		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorophenol	49		%	1	11/01/24	MR	30 - 130 %
% Nitrobenzene-d5	52		%	1	11/01/24	MR	30 - 130 %
% Phenol-d5	47		%	1	11/01/24	MR	30 - 130 %
% Terphenyl-d14	50		%	1	11/01/24	MR	30 - 130 %

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

Massachusetts does not offer certification for Soil/Solid matrices.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

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

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

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

Phyllis Shiller, Laboratory Director
November 14, 2024
Official Report Release To Follow

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

Analysis Report

November 14, 2024

FOR: Attn: Mr Dave Gorden
PEER Consultants
25 Mall Road, Suite 206
Burlington, MA 01803

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/29/24	18:03
Location Code:	PEER	Received by:	SR1	10/30/24	14:37
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	8593				

Laboratory Data

SDG ID: GCR96234
Phoenix ID: CR96238

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: B6 DRY

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	11/01/24	TH	SW6010D
Arsenic	54.3	0.72	mg/Kg	1	11/01/24	TH	SW6010D
Barium	16.1	0.36	mg/Kg	1	11/01/24	TH	SW6010D
Beryllium	0.29	0.29	mg/Kg	1	11/01/24	TH	SW6010D
Cadmium	< 0.36	0.36	mg/Kg	1	11/01/24	TH	SW6010D
Chromium	13.4	0.36	mg/Kg	1	11/01/24	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/31/24	AL1	SW7471B
Nickel	6.48	0.36	mg/Kg	1	11/01/24	TH	SW6010D
Lead	10.2	0.36	mg/Kg	1	11/01/24	TH	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	11/01/24	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	11/01/24	TH	SW6010D
Thallium	< 3.2	3.2	mg/Kg	1	11/01/24	TH	SW6010D
Vanadium	11.7	0.36	mg/Kg	1	11/01/24	TH	SW6010D
Zinc	11.0	0.7	mg/Kg	1	11/01/24	TH	SW6010D
Percent Solid	97		%		10/30/24	CV	SW846-%Solid
Conductivity - Soil Matrix	24	5	umhos/cm	1	10/30/24	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	10/30/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	11/04/24	G	SW1010B
Ignitability	Passed	140	degree F	1	11/04/24	G	SW846-Ignit
pH at 25C - Soil	6.71	1.00	pH Units	1	10/30/24 22:09	MW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	11/04/24	E/N/G	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	11/04/24	EG/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	11/04/24	EG/GD	SW846-React
Field Extraction	Completed				10/29/24		SW5035A
Mercury Digestion	Completed				10/31/24	AC1/AC1	SW7471B
Extraction of ETPH	Completed				10/31/24	R/H/X/	SW3546
Soil Extraction for PCB	Completed				10/31/24	H/U	SW3546

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for SVOA	Completed				10/31/24	/U	SW3546
Total Metals Digest	Completed				10/30/24	J/AG	SW3050B
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	5.6	mg/Kg	50	10/31/24	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	95		%	50	10/31/24	V	70 - 130 %
Polychlorinated Biphenyls							
PCB-1016	ND	68	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1221	ND	68	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1232	ND	68	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1242	ND	68	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1248	ND	68	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1254	ND	68	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1260	ND	68	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1262	ND	68	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1268	ND	68	ug/Kg	2	11/01/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	82		%	2	11/01/24	SC	30 - 150 %
% DCBP (Confirmation)	87		%	2	11/01/24	SC	30 - 150 %
% TCMX	82		%	2	11/01/24	SC	30 - 150 %
% TCMX (Confirmation)	79		%	2	11/01/24	SC	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	51	mg/Kg	1	11/01/24	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	120		%	1	11/01/24	JRB	50 - 150 %
% Terphenyl (surr)	105		%	1	11/01/24	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloropropene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.59	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
2,2-Dichloropropane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
2-Chlorotoluene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
2-Hexanone	ND	29	ug/Kg	1	11/01/24	JLI	SW8260D
2-Isopropyltoluene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
4-Chlorotoluene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	29	ug/Kg	1	11/01/24	JLI	SW8260D
Acetone	ND	290	ug/Kg	1	11/01/24	JLI	SW8260D
Acrylonitrile	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Benzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Bromobenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Bromochloromethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Bromodichloromethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Bromoform	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Bromomethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon Disulfide	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon tetrachloride	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Chlorobenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroform	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Chloromethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromochloromethane	ND	3.5	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromomethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Ethylbenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Hexachlorobutadiene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Isopropylbenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
m&p-Xylene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	35	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	11/01/24	JLI	SW8260D
Methylene chloride	ND	12	ug/Kg	1	11/01/24	JLI	SW8260D
Naphthalene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
n-Butylbenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
n-Propylbenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
o-Xylene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
sec-Butylbenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Styrene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
tert-Butylbenzene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrachloroethene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	11/01/24	JLI	SW8260D
Toluene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Total Xylenes	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	11/01/24	JLI	SW8260D
Trichloroethene	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorofluoromethane	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	12	ug/Kg	1	11/01/24	JLI	SW8260D
Vinyl chloride	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	11/01/24	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	11/01/24	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	11/01/24	JLI	70 - 130 %
% Toluene-d8	92		%	1	11/01/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	120	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Diethyl ether	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Di-isopropyl ether	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	5.9	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Semivolatiles							
1,1-Biphenyl	ND	50	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Dichlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
1,3-Dichlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
1,4-Dichlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dichlorophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dimethylphenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrophenol	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrotoluene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2,6-Dinitrotoluene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Chloronaphthalene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Chlorophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylnaphthalene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitroaniline	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitrophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
3-Nitroaniline	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloroaniline	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitroaniline	ND	540	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitrophenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthylene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Aniline	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Anthracene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benz(a)anthracene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzidine	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(a)pyrene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(b)fluoranthene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(ghi)perylene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(k)fluoranthene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Benzoic acid	ND	680	ug/Kg	1	11/01/24	MR	SW8270E
Benzyl butyl phthalate	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Carbazole	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Chrysene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Dibenzofuran	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Diethyl phthalate	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Dimethylphthalate	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-butylphthalate	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-octylphthalate	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Fluoranthene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Fluorene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobutadiene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Hexachloroethane	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Isophorone	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Naphthalene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Nitrobenzene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodimethylamine	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Pentachloronitrobenzene	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Pentachlorophenol	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
Phenanthrene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Phenol	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Pyrene	ND	240	ug/Kg	1	11/01/24	MR	SW8270E
Pyridine	ND	340	ug/Kg	1	11/01/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	59		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorobiphenyl	48		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorophenol	47		%	1	11/01/24	MR	30 - 130 %
% Nitrobenzene-d5	49		%	1	11/01/24	MR	30 - 130 %
% Phenol-d5	45		%	1	11/01/24	MR	30 - 130 %
% Terphenyl-d14	48		%	1	11/01/24	MR	30 - 130 %

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

Massachusetts does not offer certification for Soil/Solid matrices.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

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

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

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

Phyllis Shiller, Laboratory Director
November 14, 2024
Official Report Release To Follow

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

Analysis Report

November 14, 2024

FOR: Attn: Mr Dave Gorden
PEER Consultants
25 Mall Road, Suite 206
Burlington, MA 01803

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/29/24	18:19
Location Code:	PEER	Received by:	SR1	10/30/24	14:37
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	8593				

Laboratory Data

SDG ID: GCR96234
Phoenix ID: CR96239

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: B8 DRY

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Arsenic	20.3	0.69	mg/Kg	1	11/01/24	TH	SW6010D
Barium	21.6	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Beryllium	0.40	0.28	mg/Kg	1	11/01/24	TH	SW6010D
Cadmium	< 0.35	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Chromium	23.2	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/31/24	AL1	SW7471B
Nickel	9.35	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Lead	8.14	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	11/01/24	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	11/01/24	TH	SW6010D
Thallium	< 3.1	3.1	mg/Kg	1	11/01/24	TH	SW6010D
Vanadium	14.7	0.35	mg/Kg	1	11/01/24	TH	SW6010D
Zinc	16.2	0.7	mg/Kg	1	11/01/24	TH	SW6010D
Percent Solid	94		%		10/30/24	CV	SW846-%Solid
Conductivity - Soil Matrix	33	5	umhos/cm	1	10/30/24	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	10/30/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	11/04/24	G	SW1010B
Ignitability	Passed	140	degree F	1	11/04/24	G	SW846-Ignit
pH at 25C - Soil	6.77	1.00	pH Units	1	10/30/24 22:09	MW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	11/04/24	E/N/G	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	11/04/24	EG/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	11/04/24	EG/GD	SW846-React
Field Extraction	Completed				10/29/24		SW5035A
Mercury Digestion	Completed				10/31/24	AC1/AC1	SW7471B
Extraction of ETPH	Completed				10/31/24	R/H/X/	SW3546
Soil Extraction for PCB	Completed				10/31/24	H/U	SW3546

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for SVOA	Completed				10/31/24	/U	SW3546
Total Metals Digest	Completed				10/30/24	J/AG	SW3050B
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	5.7	mg/Kg	50	10/31/24	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	95		%	50	10/31/24	V	70 - 130 %
Polychlorinated Biphenyls							
PCB-1016	ND	70	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1221	ND	70	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1232	ND	70	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1242	ND	70	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1248	ND	70	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1254	ND	70	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1260	ND	70	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1262	ND	70	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1268	ND	70	ug/Kg	2	11/01/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	2	11/01/24	SC	30 - 150 %
% DCBP (Confirmation)	71		%	2	11/01/24	SC	30 - 150 %
% TCMX	69		%	2	11/01/24	SC	30 - 150 %
% TCMX (Confirmation)	62		%	2	11/01/24	SC	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	53	mg/Kg	1	11/01/24	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	104		%	1	11/01/24	JRB	50 - 150 %
% Terphenyl (surr)	99		%	1	11/01/24	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloropropene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.56	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
2,2-Dichloropropane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
2-Chlorotoluene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
2-Hexanone	ND	28	ug/Kg	1	11/01/24	JLI	SW8260D
2-Isopropyltoluene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
4-Chlorotoluene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	28	ug/Kg	1	11/01/24	JLI	SW8260D
Acetone	ND	280	ug/Kg	1	11/01/24	JLI	SW8260D
Acrylonitrile	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Benzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Bromobenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Bromochloromethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Bromodichloromethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Bromoform	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Bromomethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon Disulfide	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon tetrachloride	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Chlorobenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroform	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Chloromethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromochloromethane	ND	3.4	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromomethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Ethylbenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Hexachlorobutadiene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Isopropylbenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
m&p-Xylene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	34	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Methylene chloride	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Naphthalene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
n-Butylbenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
n-Propylbenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
o-Xylene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
sec-Butylbenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Styrene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
tert-Butylbenzene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrachloroethene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Toluene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Total Xylenes	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Trichloroethene	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorofluoromethane	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Vinyl chloride	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	11/01/24	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	11/01/24	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	11/01/24	JLI	70 - 130 %
% Toluene-d8	92		%	1	11/01/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	110	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Diethyl ether	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Di-isopropyl ether	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	5.6	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Semivolatiles							
1,1-Biphenyl	ND	50	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrophenol	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrotoluene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,6-Dinitrotoluene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Chloronaphthalene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitroaniline	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
3-Nitroaniline	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloroaniline	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitroaniline	ND	570	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Aniline	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Anthracene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzidine	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzoic acid	ND	710	ug/Kg	1	11/01/24	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Carbazole	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Chrysene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Dibenzofuran	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-butylphthalate	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Fluoranthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobutadiene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Nitrobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodimethylamine	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Pentachloronitrobenzene	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Pentachlorophenol	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Phenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Pyrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Pyridine	ND	350	ug/Kg	1	11/01/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	66		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorobiphenyl	54		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorophenol	52		%	1	11/01/24	MR	30 - 130 %
% Nitrobenzene-d5	53		%	1	11/01/24	MR	30 - 130 %
% Phenol-d5	50		%	1	11/01/24	MR	30 - 130 %
% Terphenyl-d14	57		%	1	11/01/24	MR	30 - 130 %

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

Massachusetts does not offer certification for Soil/Solid matrices.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

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

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

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

Phyllis Shiller, Laboratory Director
November 14, 2024
Official Report Release To Follow

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

Analysis Report

November 14, 2024

FOR: Attn: Mr Dave Gorden
PEER Consultants
25 Mall Road, Suite 206
Burlington, MA 01803

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/29/24	18:30
Location Code:	PEER	Received by:	SR1	10/30/24	14:37
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	8593				

Laboratory Data

SDG ID: GCR96234
Phoenix ID: CR96240

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: B6B8 WET

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	11/01/24	TH	SW6010D
Arsenic	26.6	0.73	mg/Kg	1	11/01/24	TH	SW6010D
Barium	19.3	0.37	mg/Kg	1	11/01/24	TH	SW6010D
Beryllium	< 0.29	0.29	mg/Kg	1	11/01/24	TH	SW6010D
Cadmium	< 0.37	0.37	mg/Kg	1	11/01/24	TH	SW6010D
Chromium	10.4	0.37	mg/Kg	1	11/01/24	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/31/24	AL1	SW7471B
Nickel	8.74	0.37	mg/Kg	1	11/01/24	TH	SW6010D
Lead	3.58	0.37	mg/Kg	1	11/01/24	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	11/01/24	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	11/01/24	TH	SW6010D
Thallium	< 3.3	3.3	mg/Kg	1	11/01/24	TH	SW6010D
Vanadium	12.4	0.37	mg/Kg	1	11/01/24	TH	SW6010D
Zinc	17.1	0.7	mg/Kg	1	11/01/24	TH	SW6010D
Percent Solid	90		%		10/30/24	CV	SW846-%Solid
Conductivity - Soil Matrix	34	5	umhos/cm	1	10/30/24	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	10/30/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	11/04/24	G	SW1010B
Ignitability	Passed	140	degree F	1	11/04/24	G	SW846-Ignit
pH at 25C - Soil	7.08	1.00	pH Units	1	10/30/24 22:09	MW	SW846 9045D
Reactivity Cyanide	< 5	5	mg/Kg	1	11/04/24	E/N/G	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	11/04/24	EG/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	11/04/24	EG/GD	SW846-React
Field Extraction	Completed				10/29/24		SW5035A
Mercury Digestion	Completed				10/31/24	AC1/AC1	SW7471B
Extraction of ETPH	Completed				10/31/24	R/H/X/	SW3546
Soil Extraction for PCB	Completed				10/31/24	H/U	SW3546

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for SVOA	Completed				10/31/24	/U	SW3546
Total Metals Digest	Completed				10/30/24	J/AG	SW3050B
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	4.9	mg/Kg	50	10/31/24	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	96		%	50	10/31/24	V	70 - 130 %
Polychlorinated Biphenyls							
PCB-1016	ND	73	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1221	ND	73	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1232	ND	73	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1242	ND	73	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1248	ND	73	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1254	ND	73	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1260	ND	73	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1262	ND	73	ug/Kg	2	11/01/24	SC	SW8082A
PCB-1268	ND	73	ug/Kg	2	11/01/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	81		%	2	11/01/24	SC	30 - 150 %
% DCBP (Confirmation)	80		%	2	11/01/24	SC	30 - 150 %
% TCMX	80		%	2	11/01/24	SC	30 - 150 %
% TCMX (Confirmation)	73		%	2	11/01/24	SC	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	55	mg/Kg	1	11/01/24	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	96		%	1	11/01/24	JRB	50 - 150 %
% Terphenyl (surr)	92		%	1	11/01/24	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloropropene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.44	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloroethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloropropane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichloropropane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
2,2-Dichloropropane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
2-Chlorotoluene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
2-Hexanone	ND	22	ug/Kg	1	11/01/24	JLI	SW8260D
2-Isopropyltoluene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
4-Chlorotoluene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	22	ug/Kg	1	11/01/24	JLI	SW8260D
Acetone	ND	220	ug/Kg	1	11/01/24	JLI	SW8260D
Acrylonitrile	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Benzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Bromobenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Bromochloromethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Bromodichloromethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Bromoform	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Bromomethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon Disulfide	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon tetrachloride	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Chlorobenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroform	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Chloromethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromochloromethane	ND	2.6	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromomethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Dichlorodifluoromethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Ethylbenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Hexachlorobutadiene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Isopropylbenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
m&p-Xylene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	26	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	8.8	ug/Kg	1	11/01/24	JLI	SW8260D
Methylene chloride	ND	8.8	ug/Kg	1	11/01/24	JLI	SW8260D
Naphthalene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
n-Butylbenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
n-Propylbenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
o-Xylene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
p-Isopropyltoluene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
sec-Butylbenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Styrene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
tert-Butylbenzene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrachloroethene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	8.8	ug/Kg	1	11/01/24	JLI	SW8260D
Toluene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Total Xylenes	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	8.8	ug/Kg	1	11/01/24	JLI	SW8260D
Trichloroethene	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorofluoromethane	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	8.8	ug/Kg	1	11/01/24	JLI	SW8260D
Vinyl chloride	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	11/01/24	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	11/01/24	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	11/01/24	JLI	70 - 130 %
% Toluene-d8	92		%	1	11/01/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	88	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Diethyl ether	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Di-isopropyl ether	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	4.4	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Semivolatiles							
1,1-Biphenyl	ND	50	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrophenol	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrotoluene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,6-Dinitrotoluene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Chloronaphthalene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitroaniline	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitrophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
3-Nitroaniline	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloroaniline	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitroaniline	ND	580	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Aniline	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Anthracene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzidine	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzoic acid	ND	720	ug/Kg	1	11/01/24	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Carbazole	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Chrysene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Dibenzofuran	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Fluoranthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobutadiene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Nitrobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodimethylamine	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Pentachloronitrobenzene	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Pentachlorophenol	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Phenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Pyrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Pyridine	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	65		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorobiphenyl	52		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorophenol	54		%	1	11/01/24	MR	30 - 130 %
% Nitrobenzene-d5	54		%	1	11/01/24	MR	30 - 130 %
% Phenol-d5	49		%	1	11/01/24	MR	30 - 130 %
% Terphenyl-d14	54		%	1	11/01/24	MR	30 - 130 %

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

Massachusetts does not offer certification for Soil/Solid matrices.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

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

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

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

Phyllis Shiller, Laboratory Director
November 14, 2024
Official Report Release To Follow

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

Analysis Report

November 14, 2024

FOR: Attn: Mr Dave Gorden
PEER Consultants
25 Mall Road, Suite 206
Burlington, MA 01803

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/29/24	18:44
Location Code:	PEER	Received by:	SR1	10/30/24	14:37
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	8593				

Laboratory Data

SDG ID: GCR96234
Phoenix ID: CR96241

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: B1B7 WET

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	11/01/24	TH	SW6010D
Arsenic	16.5	0.84	mg/Kg	1	11/01/24	TH	SW6010D
Barium	18.9	0.42	mg/Kg	1	11/01/24	TH	SW6010D
Beryllium	< 0.34	0.34	mg/Kg	1	11/01/24	TH	SW6010D
Cadmium	< 0.42	0.42	mg/Kg	1	11/01/24	TH	SW6010D
Chromium	14.4	0.42	mg/Kg	1	11/01/24	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/31/24	AL1	SW7471B
Nickel	9.23	0.42	mg/Kg	1	11/01/24	TH	SW6010D
Lead	4.65	0.42	mg/Kg	1	11/01/24	TH	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	11/01/24	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	11/01/24	TH	SW6010D
Thallium	< 3.8	3.8	mg/Kg	1	11/01/24	TH	SW6010D
Vanadium	12.2	0.42	mg/Kg	1	11/01/24	TH	SW6010D
Zinc	14.7	0.8	mg/Kg	1	11/01/24	TH	SW6010D
Percent Solid	80		%		10/30/24	CV	SW846-%Solid
Conductivity - Soil Matrix	27	5	umhos/cm	1	10/30/24	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	10/30/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	11/04/24	G	SW1010B
Ignitability	Passed	140	degree F	1	11/04/24	G	SW846-Ignit
pH at 25C - Soil	6.60	1.00	pH Units	1	10/30/24 22:10	MW	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	11/04/24	E/N/G	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	11/04/24	EG/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	11/04/24	EG/GD	SW846-React
Field Extraction	Completed				10/29/24		SW5035A
Mercury Digestion	Completed				10/31/24	AC1/AC1	SW7471B
Extraction of ETPH	Completed				10/31/24	R/H/X/	SW3546
Soil Extraction for PCB	Completed				11/01/24	J/U	SW3546

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Soil Extraction for SVOA	Completed				10/31/24	/U	SW3546
Total Metals Digest	Completed				10/30/24	J/AG	SW3050B
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	6.3	mg/Kg	50	10/31/24	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	94		%	50	10/31/24	V	70 - 130 %
Polychlorinated Biphenyls							
PCB-1016	ND	58	ug/Kg	1	11/05/24	SC	SW8082A
PCB-1221	ND	58	ug/Kg	1	11/05/24	SC	SW8082A
PCB-1232	ND	58	ug/Kg	1	11/05/24	SC	SW8082A
PCB-1242	ND	58	ug/Kg	1	11/05/24	SC	SW8082A
PCB-1248	ND	58	ug/Kg	1	11/05/24	SC	SW8082A
PCB-1254	ND	58	ug/Kg	1	11/05/24	SC	SW8082A
PCB-1260	ND	58	ug/Kg	1	11/05/24	SC	SW8082A
PCB-1262	ND	58	ug/Kg	1	11/05/24	SC	SW8082A
PCB-1268	ND	58	ug/Kg	1	11/05/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	63		%	1	11/05/24	SC	30 - 150 %
% DCBP (Confirmation)	71		%	1	11/05/24	SC	30 - 150 %
% TCMX	65		%	1	11/05/24	SC	30 - 150 %
% TCMX (Confirmation)	68		%	1	11/05/24	SC	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	61	mg/Kg	1	11/01/24	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	92		%	1	11/01/24	JRB	50 - 150 %
% Terphenyl (surr)	87		%	1	11/01/24	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloropropene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.53	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
2,2-Dichloropropane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
2-Chlorotoluene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
2-Hexanone	ND	26	ug/Kg	1	11/01/24	JLI	SW8260D
2-Isopropyltoluene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
4-Chlorotoluene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	26	ug/Kg	1	11/01/24	JLI	SW8260D
Acetone	ND	260	ug/Kg	1	11/01/24	JLI	SW8260D
Acrylonitrile	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Benzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Bromobenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Bromochloromethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Bromodichloromethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Bromoform	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Bromomethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon Disulfide	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon tetrachloride	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Chlorobenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroform	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Chloromethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromochloromethane	ND	3.2	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromomethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Ethylbenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Hexachlorobutadiene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Isopropylbenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
m&p-Xylene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	32	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Methylene chloride	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Naphthalene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
n-Butylbenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
n-Propylbenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
o-Xylene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
sec-Butylbenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Styrene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
tert-Butylbenzene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrachloroethene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Toluene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Total Xylenes	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Trichloroethene	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorofluoromethane	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	11	ug/Kg	1	11/01/24	JLI	SW8260D
Vinyl chloride	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	11/01/24	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	11/01/24	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	11/01/24	JLI	70 - 130 %
% Toluene-d8	92		%	1	11/01/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	110	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Diethyl ether	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Di-isopropyl ether	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	5.3	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Semivolatiles							
1,1-Biphenyl	ND	50	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Dichlorobenzene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
1,3-Dichlorobenzene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
1,4-Dichlorobenzene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dichlorophenol	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dimethylphenol	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrophenol	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrotoluene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
2,6-Dinitrotoluene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
2-Chloronaphthalene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
2-Chlorophenol	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylnaphthalene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitroaniline	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitrophenol	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
3-Nitroaniline	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloroaniline	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitroaniline	ND	1400	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitrophenol	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthylene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Aniline	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
Anthracene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Benz(a)anthracene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Benzidine	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(a)pyrene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(b)fluoranthene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(ghi)perylene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(k)fluoranthene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Benzoic acid	ND	1800	ug/Kg	1	11/01/24	MR	SW8270E
Benzyl butyl phthalate	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	700	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
Carbazole	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
Chrysene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Dibenzofuran	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Diethyl phthalate	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Dimethylphthalate	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-butylphthalate	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-octylphthalate	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Fluoranthene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Fluorene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobenzene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobutadiene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Hexachloroethane	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Isophorone	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Naphthalene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Nitrobenzene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodimethylamine	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
Pentachloronitrobenzene	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
Pentachlorophenol	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
Phenanthrene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Phenol	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Pyrene	ND	620	ug/Kg	1	11/01/24	MR	SW8270E
Pyridine	ND	880	ug/Kg	1	11/01/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	72		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorobiphenyl	56		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorophenol	53		%	1	11/01/24	MR	30 - 130 %
% Nitrobenzene-d5	52		%	1	11/01/24	MR	30 - 130 %
% Phenol-d5	51		%	1	11/01/24	MR	30 - 130 %
% Terphenyl-d14	59		%	1	11/01/24	MR	30 - 130 %

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

Massachusetts does not offer certification for Soil/Solid matrices.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

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

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

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

Phyllis Shiller, Laboratory Director
November 14, 2024
Official Report Release To Follow

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

Analysis Report

November 14, 2024

FOR: Attn: Mr Dave Gorden
PEER Consultants
25 Mall Road, Suite 206
Burlington, MA 01803

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/29/24	19:02
Location Code:	PEER	Received by:	SR1	10/30/24	14:37
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	8593				

Laboratory Data

SDG ID: GCR96234
Phoenix ID: CR96242

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: B2 WET

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	11/01/24	TH	SW6010D
Arsenic	20.2	0.80	mg/Kg	1	11/01/24	TH	SW6010D
Barium	15.0	0.40	mg/Kg	1	11/01/24	TH	SW6010D
Beryllium	< 0.32	0.32	mg/Kg	1	11/01/24	TH	SW6010D
Cadmium	< 0.40	0.40	mg/Kg	1	11/01/24	TH	SW6010D
Chromium	12.3	0.40	mg/Kg	1	11/01/24	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/31/24	AL1	SW7471B
Nickel	8.57	0.40	mg/Kg	1	11/01/24	TH	SW6010D
Lead	3.55	0.40	mg/Kg	1	11/01/24	TH	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	11/01/24	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	11/01/24	TH	SW6010D
Thallium	< 3.6	3.6	mg/Kg	1	11/01/24	TH	SW6010D
Vanadium	10.4	0.40	mg/Kg	1	11/01/24	TH	SW6010D
Zinc	17.4	0.8	mg/Kg	1	11/01/24	TH	SW6010D
Percent Solid	89		%		10/30/24	CV	SW846-%Solid
Conductivity - Soil Matrix	30	5	umhos/cm	1	10/30/24	KG	SW9050A
Corrosivity	Negative		Pos/Neg	1	10/30/24	MW	SW846-Corr
Flash Point	>200	200	Degree F	1	11/04/24	G	SW1010B
Ignitability	Passed	140	degree F	1	11/04/24	G	SW846-Ignit
pH at 25C - Soil	6.77	1.00	pH Units	1	10/30/24 22:10	MW	SW846 9045D
Reactivity Cyanide	< 6	6	mg/Kg	1	11/04/24	E/N/G	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	11/04/24	EG/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	11/04/24	EG/GD	SW846-React
Mercury Digestion	Completed				10/31/24	AC1/AC1	SW7471B
Extraction of ETPH	Completed				10/31/24	R/H/X/	SW3546
Soil Extraction for PCB	Completed				11/01/24	J/U	SW3546
Soil Extraction for SVOA	Completed				10/31/24	/U	SW3546

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed				10/30/24	J/AG	SW3050B
Gasoline Range Hydrocarbons (C6-C10)							
GRO (C6-C10)	ND	5.3	mg/Kg	50	10/31/24	V	SW8015D GRO
QA/QC Surrogates							
% 2,5-Dibromotoluene (FID)	96		%	50	10/31/24	V	70 - 130 %
Polychlorinated Biphenyls							
PCB-1016	ND	74	ug/Kg	2	11/05/24	SC	SW8082A
PCB-1221	ND	74	ug/Kg	2	11/05/24	SC	SW8082A
PCB-1232	ND	74	ug/Kg	2	11/05/24	SC	SW8082A
PCB-1242	ND	74	ug/Kg	2	11/05/24	SC	SW8082A
PCB-1248	ND	74	ug/Kg	2	11/05/24	SC	SW8082A
PCB-1254	ND	74	ug/Kg	2	11/05/24	SC	SW8082A
PCB-1260	ND	74	ug/Kg	2	11/05/24	SC	SW8082A
PCB-1262	ND	74	ug/Kg	2	11/05/24	SC	SW8082A
PCB-1268	ND	74	ug/Kg	2	11/05/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	68		%	2	11/05/24	SC	30 - 150 %
% DCBP (Confirmation)	74		%	2	11/05/24	SC	30 - 150 %
% TCMX	59		%	2	11/05/24	SC	30 - 150 %
% TCMX (Confirmation)	61		%	2	11/05/24	SC	30 - 150 %
TPH DRO (C10-C28)							
Diesel Range Organics (C10-C28)	ND	55	mg/Kg	1	11/01/24	JRB	SW8015D DRO
QA/QC Surrogates							
% COD (surr)	97		%	1	11/01/24	JRB	50 - 150 %
% Terphenyl (surr)	92		%	1	11/01/24	JRB	50 - 150 %
Semivolatiles							
1,1-Biphenyl	ND	50	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Dichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
1,3-Dichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
1,4-Dichlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dichlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dimethylphenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrophenol	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
2,4-Dinitrotoluene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2,6-Dinitrotoluene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Chloronaphthalene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Chlorophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylnaphthalene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
2-Nitroaniline	ND	360	ug/Kg	1	11/01/24	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitrophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
3-Nitroaniline	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
4-Chloroaniline	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitroaniline	ND	580	ug/Kg	1	11/01/24	MR	SW8270E
4-Nitrophenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Acenaphthylene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Acetophenone	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Aniline	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Anthracene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benz(a)anthracene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzidine	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(a)pyrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(b)fluoranthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(ghi)perylene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzo(k)fluoranthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Benzoic acid	ND	730	ug/Kg	1	11/01/24	MR	SW8270E
Benzyl butyl phthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Carbazole	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Chrysene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Dibenzofuran	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Diethyl phthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Dimethylphthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-butylphthalate	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Di-n-octylphthalate	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Fluoranthene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Fluorene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorobutadiene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Hexachloroethane	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Isophorone	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Naphthalene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Nitrobenzene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodimethylamine	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Pentachloronitrobenzene	ND	360	ug/Kg	1	11/01/24	MR	SW8270E

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pentachlorophenol	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
Phenanthrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Phenol	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Pyrene	ND	250	ug/Kg	1	11/01/24	MR	SW8270E
Pyridine	ND	360	ug/Kg	1	11/01/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	62		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorobiphenyl	50		%	1	11/01/24	MR	30 - 130 %
% 2-Fluorophenol	52		%	1	11/01/24	MR	30 - 130 %
% Nitrobenzene-d5	51		%	1	11/01/24	MR	30 - 130 %
% Phenol-d5	48		%	1	11/01/24	MR	30 - 130 %
% Terphenyl-d14	53		%	1	11/01/24	MR	30 - 130 %

Massachusetts does not offer certification for Soil/Solid matrices.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The GRO (C6-C10) is quantitated using an gasoline standard.

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

The TPH (C10-C28) is quantitated using an alkane standard.

Corrosivity is based solely on the pH analysis performed above.

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

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

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

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

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

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

Phyllis Shiller, Laboratory Director
November 14, 2024
Official Report Release To Follow

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

Analysis Report

November 14, 2024

FOR: Attn: Mr Dave Gorden
PEER Consultants
25 Mall Road, Suite 206
Burlington, MA 01803

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/29/24	
Location Code:	PEER	Received by:	SR1	10/30/24	14:37
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	8593				

Laboratory Data

SDG ID: GCR96234
Phoenix ID: CR96243

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: TB102924 HI

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				10/29/24		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg	50	11/01/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	50	ug/Kg	50	11/01/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	100	ug/Kg	50	11/01/24	JLI	SW8260D
1,1-Dichloroethane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,1-Dichloroethene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,1-Dichloropropene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,2-Dibromoethane	ND	100	ug/Kg	50	11/01/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,2-Dichloroethane	ND	100	ug/Kg	50	11/01/24	JLI	SW8260D
1,2-Dichloropropane	ND	100	ug/Kg	50	11/01/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,3-Dichloropropane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
2,2-Dichloropropane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
2-Chlorotoluene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
2-Hexanone	ND	1300	ug/Kg	50	11/01/24	JLI	SW8260D
2-Isopropyltoluene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	400	ug/Kg	50	11/01/24	JLI	SW8260D
Acetone	ND	5000	ug/Kg	50	11/01/24	JLI	SW8260D
Acrylonitrile	ND	500	ug/Kg	50	11/01/24	JLI	SW8260D
Benzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Bromobenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Bromochloromethane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Bromodichloromethane	ND	100	ug/Kg	50	11/01/24	JLI	SW8260D
Bromoform	ND	100	ug/Kg	50	11/01/24	JLI	SW8260D
Bromomethane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Carbon Disulfide	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Carbon tetrachloride	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Chlorobenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Chloroethane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Chloroform	ND	200	ug/Kg	50	11/01/24	JLI	SW8260D
Chloromethane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	100	ug/Kg	50	11/01/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	25	ug/Kg	50	11/01/24	JLI	SW8260D
Dibromochloromethane	ND	50	ug/Kg	50	11/01/24	JLI	SW8260D
Dibromomethane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Dichlorodifluoromethane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Ethylbenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Hexachlorobutadiene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Isopropylbenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
m&p-Xylene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	11/01/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	100	ug/Kg	50	11/01/24	JLI	SW8260D
Methylene chloride	ND	100	ug/Kg	50	11/01/24	JLI	SW8260D
Naphthalene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
n-Butylbenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
n-Propylbenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
o-Xylene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
p-Isopropyltoluene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
sec-Butylbenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Styrene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
tert-Butylbenzene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Tetrachloroethene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	11/01/24	JLI	SW8260D
Toluene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Total Xylenes	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	25	ug/Kg	50	11/01/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	11/01/24	JLI	SW8260D
Trichloroethene	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Trichlorofluoromethane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
Vinyl chloride	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	97		%	50	11/01/24	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	95		%	50	11/01/24	JLI	70 - 130 %
% Dibromofluoromethane (50x)	86		%	50	11/01/24	JLI	70 - 130 %
% Toluene-d8 (50x)	97		%	50	11/01/24	JLI	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	800	ug/Kg	50	11/01/24	JLI	SW8260D (OXY)
Diethyl ether	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D (OXY)
Di-isopropyl ether	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	250	ug/Kg	50	11/01/24	JLI	SW8260D (OXY)

Massachusetts does not offer certification for Soil/Solid matrices.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

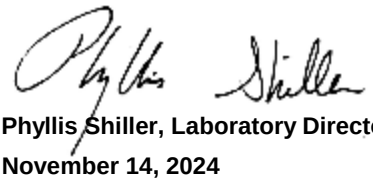
Comments:

TRIP BLANK INCLUDED.

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

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

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



Phyllis Shiller, Laboratory Director
November 14, 2024
Official Report Release To Follow

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

Analysis Report

November 14, 2024

FOR: Attn: Mr Dave Gorden
PEER Consultants
25 Mall Road, Suite 206
Burlington, MA 01803

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		10/29/24	
Location Code:	PEER	Received by:	SR1	10/30/24	14:37
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	8593				

Laboratory Data

SDG ID: GCR96234
Phoenix ID: CR96244

Project ID: WILDWOOD @ NORTH INTERMED
Client ID: TB102924 LO

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				10/29/24		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,1-Dichloropropene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.50	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
2,2-Dichloropropane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
2-Chlorotoluene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
2-Hexanone	ND	25	ug/Kg	1	11/01/24	JLI	SW8260D
2-Isopropyltoluene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	25	ug/Kg	1	11/01/24	JLI	SW8260D
Acetone	ND	250	ug/Kg	1	11/01/24	JLI	SW8260D
Acrylonitrile	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Benzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Bromobenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Bromochloromethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Bromodichloromethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Bromoform	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Bromomethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon Disulfide	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Carbon tetrachloride	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Chlorobenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Chloroform	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Chloromethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromochloromethane	ND	3.0	ug/Kg	1	11/01/24	JLI	SW8260D
Dibromomethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Ethylbenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Hexachlorobutadiene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Isopropylbenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
m&p-Xylene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	30	ug/Kg	1	11/01/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	11/01/24	JLI	SW8260D
Methylene chloride	ND	10	ug/Kg	1	11/01/24	JLI	SW8260D
Naphthalene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
n-Butylbenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
n-Propylbenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
o-Xylene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
sec-Butylbenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Styrene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
tert-Butylbenzene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrachloroethene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	11/01/24	JLI	SW8260D
Toluene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Total Xylenes	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	11/01/24	JLI	SW8260D
Trichloroethene	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	10	ug/Kg	1	11/01/24	JLI	SW8260D
Vinyl chloride	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	11/01/24	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	98		%	1	11/01/24	JLI	70 - 130 %
% Dibromofluoromethane	82		%	1	11/01/24	JLI	70 - 130 %
% Toluene-d8	98		%	1	11/01/24	JLI	70 - 130 %

Oxygenates & Dioxane

1,4-Dioxane	ND	100	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Diethyl ether	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Di-isopropyl ether	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	5.0	ug/Kg	1	11/01/24	JLI	SW8260D (OXY)

Massachusetts does not offer certification for Soil/Solid matrices.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

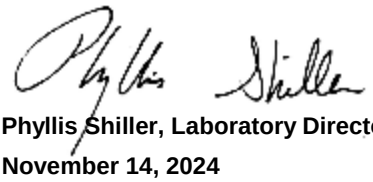
Comments:

TRIP BLANK INCLUDED.

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

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

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



Phyllis Shiller, Laboratory Director
November 14, 2024
Official Report Release To Follow

Sample Criteria Exceedances Report

GCR96234 - PEER

Criteria: MA: Com97-L, Com97-U, S1, S1G2, S2, S2G2

State: MA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CR96238	AS-SM	Arsenic	MA / CMR 310.40.1600 / S1 (mg/kg)	54.3	0.72	20	20	mg/Kg
CR96238	AS-SM	Arsenic	MA / CMR 310.40.1600 / S2 (mg/kg)	54.3	0.72	20	20	mg/Kg
CR96238	AS-SM	Arsenic	MA / COMM 97 / Lined Landfills	54.3	0.72	40	40	mg/Kg
CR96238	AS-SM	Arsenic	MA / COMM 97 / Unlined Landfills	54.3	0.72	40	40	mg/Kg
CR96238	AS-SM	Arsenic	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-1	54.3	0.72	20	20	mg/Kg
CR96238	AS-SM	Arsenic	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-2	54.3	0.72	20	20	mg/Kg
CR96238	AS-SM	Arsenic	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-1	54.3	0.72	20	20	mg/Kg
CR96238	AS-SM	Arsenic	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-2	54.3	0.72	20	20	mg/Kg
CR96239	AS-SM	Arsenic	MA / CMR 310.40.1600 / S1 (mg/kg)	20.3	0.69	20	20	mg/Kg
CR96239	AS-SM	Arsenic	MA / CMR 310.40.1600 / S2 (mg/kg)	20.3	0.69	20	20	mg/Kg
CR96239	AS-SM	Arsenic	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-1	20.3	0.69	20	20	mg/Kg
CR96239	AS-SM	Arsenic	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-2	20.3	0.69	20	20	mg/Kg
CR96239	AS-SM	Arsenic	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-1	20.3	0.69	20	20	mg/Kg
CR96239	AS-SM	Arsenic	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-2	20.3	0.69	20	20	mg/Kg
CR96240	AS-SM	Arsenic	MA / CMR 310.40.1600 / S1 (mg/kg)	26.6	0.73	20	20	mg/Kg
CR96240	AS-SM	Arsenic	MA / CMR 310.40.1600 / S2 (mg/kg)	26.6	0.73	20	20	mg/Kg
CR96240	AS-SM	Arsenic	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-1	26.6	0.73	20	20	mg/Kg
CR96240	AS-SM	Arsenic	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-2	26.6	0.73	20	20	mg/Kg
CR96240	AS-SM	Arsenic	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-1	26.6	0.73	20	20	mg/Kg
CR96240	AS-SM	Arsenic	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-2	26.6	0.73	20	20	mg/Kg
CR96242	AS-SM	Arsenic	MA / CMR 310.40.1600 / S1 (mg/kg)	20.2	0.80	20	20	mg/Kg
CR96242	AS-SM	Arsenic	MA / CMR 310.40.1600 / S2 (mg/kg)	20.2	0.80	20	20	mg/Kg
CR96242	AS-SM	Arsenic	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-1	20.2	0.80	20	20	mg/Kg
CR96242	AS-SM	Arsenic	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-2	20.2	0.80	20	20	mg/Kg
CR96242	AS-SM	Arsenic	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-1	20.2	0.80	20	20	mg/Kg
CR96242	AS-SM	Arsenic	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-2	20.2	0.80	20	20	mg/Kg
CR96243	$8260MER	cis-1,3-Dichloropropene	MA / CMR 310.40.1600 / S1 (mg/kg)	ND	25	10	10	ug/Kg
CR96243	$8260MER	1,1,2,2-Tetrachloroethane	MA / CMR 310.40.1600 / S1 (mg/kg)	ND	50	5	5	ug/Kg
CR96243	$8260MER	trans-1,3-Dichloropropene	MA / CMR 310.40.1600 / S1 (mg/kg)	ND	25	10	10	ug/Kg
CR96243	$8260MER	Dibromochloromethane	MA / CMR 310.40.1600 / S1 (mg/kg)	ND	50	5	5	ug/Kg
CR96243	$8260MER	Dibromochloromethane	MA / CMR 310.40.1600 / S2 (mg/kg)	ND	50	30	30	ug/Kg
CR96243	$8260MER	1,1,2,2-Tetrachloroethane	MA / CMR 310.40.1600 / S2 (mg/kg)	ND	50	20	20	ug/Kg
CR96243	$8260MER	Dibromochloromethane	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-1	ND	50	5	5	ug/Kg
CR96243	$8260MER	1,1,2,2-Tetrachloroethane	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-1	ND	50	5	5	ug/Kg
CR96243	$8260MER	1,1,2,2-Tetrachloroethane	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-2	ND	50	20	20	ug/Kg
CR96243	$8260MER	Dibromochloromethane	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-2	ND	50	30	30	ug/Kg
CR96243	$8260MER	1,1,2,2-Tetrachloroethane	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-1	ND	50	5	5	ug/Kg
CR96243	$8260MER	Dibromochloromethane	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-1	ND	50	5	5	ug/Kg
CR96243	$8260MER	1,1,2,2-Tetrachloroethane	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-2	ND	50	20	20	ug/Kg

Sample Criteria Exceedances Report

GCR96234 - PEER

Criteria: MA: Com97-L, Com97-U, S1, S1G2, S2, S2G2

State: MA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CR96243	$8260MER	Dibromochloromethane	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-2	ND	50	30	30	ug/Kg
CR96243	$MCPADD-SM	1,4-Dioxane	MA / CMR 310.40.1600 / S1 (mg/kg)	ND	800	200	200	ug/Kg
CR96243	$MCPADD-SM	1,4-Dioxane	MA / SOIL S-1 STANDARDS / S-1 Soil & GW-1	ND	800	200	200	ug/Kg
CR96243	$MCPADD-SM	1,4-Dioxane	MA / SOIL S-2 STANDARDS / S-2 Soil & GW-1	ND	800	200	200	ug/Kg

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 1.3 °C Pg 1 of 1

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☑ Email: gordon@peerepc.com

Customer: PEER Consultants
Address: 25 Mall Rd Suite 206
Burlington MA 01803
7812388880

Project: Wildwood@ North Intermed
Report to: d. gordon
Invoice to: d. gordon
QUOTE # Wilmington

Project P.O: 8593

This section MUST be completed with Bottle Quantities.

Sampler's Signature: _____ Date: 10/29/24

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Hi level VOC	Lo level VOC	TPH GRO	Flashpt/Ignit	SVOC-TPH DRO, PCB (*)	Pest/Herb	TCLP 14 Metals (†)	MS/MSD*	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [✓] methanol [✓] H2O	GL Soil container (8) oz amber	GL Soil container (4) oz	40 ml VOA Vial [ ] As is [ ] HCL	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
96234	B1B8 TS	SD	10/29	1650						✓						1								
96235	B3B4B5 Dry	SD	10/29	1701	✓	✓	✓	✓	✓		†				5	2	1							
96236	B1 [redacted] Dry	SD	10/29	1722	✓	✓	✓	✓	✓		⊙				5	1	1							
96237	B2 Dry	SD	10/29	1751	✓	✓	✓	✓	✓		†				5	2	1							
96238	B6 Dry	SD	10/29	1803	✓	✓	✓	✓	✓		†				5	2	1							
96239	B8 Dry	SD	10/29	1819	✓	✓	✓	✓	✓		†				5	2	1							
96240	B6B8 Wet	SD	10/29	1830	✓	✓	✓	✓	✓		†				5	2	1							
96241	B1B7 Wet	SD	10/29	1844	✓	✓	✓	✓	✓		†				4.	2	1							
96242	B2 Wet	SD	10/29	1902			✓	✓	✓		†				2.	2	1							
96243	TB102924Hi	L	10/22	–	✓										1									
96244	TB102924Lo	L	10/22	–		✓									2									

Relinquished by:	Accepted by:	Date:	Time:
		10/30/24	1145
		10/30/24	14:37

Comments, Special Requirements or Regulations: ● Missing lab BS
Ⓐ MCP 14 metals, pH, Corrosivity, Conductivity
Ⓣ only if exceeds 20x rule - call Reactive Client first to confirm
⊙ use any remaining soil from other

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

Turnaround Time:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ (Residential) Direct Exposure
☐ (Comm/Industrial) Direct Exposure
☐ GA Leachability
☐ GB Leachability
☐ GA-GW Objectives
☐ GB-GW Objectives

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA mcpcomm 97-001
☐ MCP Certification
☑ GW-1 ☐ MWRA eSMART
☑ GW-2 ☐ S-1 10% CALC
☐ GW-3
☑ S-1 GW-1 ☑ S-1 GW-2 ☐ S-1 GW-3
☑ S-2 GW-1 ☑ S-2 GW-2 ☐ S-2 GW-3
☐ S-3 GW-1 ☐ S-3 GW-2 ☐ S-3 GW-3
☐ SW Protection

State where samples were collected: MA

Data Format
☑ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☑ Phoenix Std Report
☐ Other

* SURCHARGE APPLIES

Sarah Bell

Subject: FW: GCR96234

From: Dave Gorden <GordenD@peercpc.com>
Sent: Wednesday, November 13, 2024 11:31 AM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Krystal Houle <Khoule@phoenixlabs.com>
Subject: RE: GCR96234

Sarah.

Please proceed with running that sample for total Arsenic at 24 hr TAT.

Cheers...

David

From: Dave Gorden <GordenD@peercpc.com>
Sent: Wednesday, November 13, 2024 10:16 AM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Krystal Houle <Khoule@phoenixlabs.com>
Subject: GCR96234

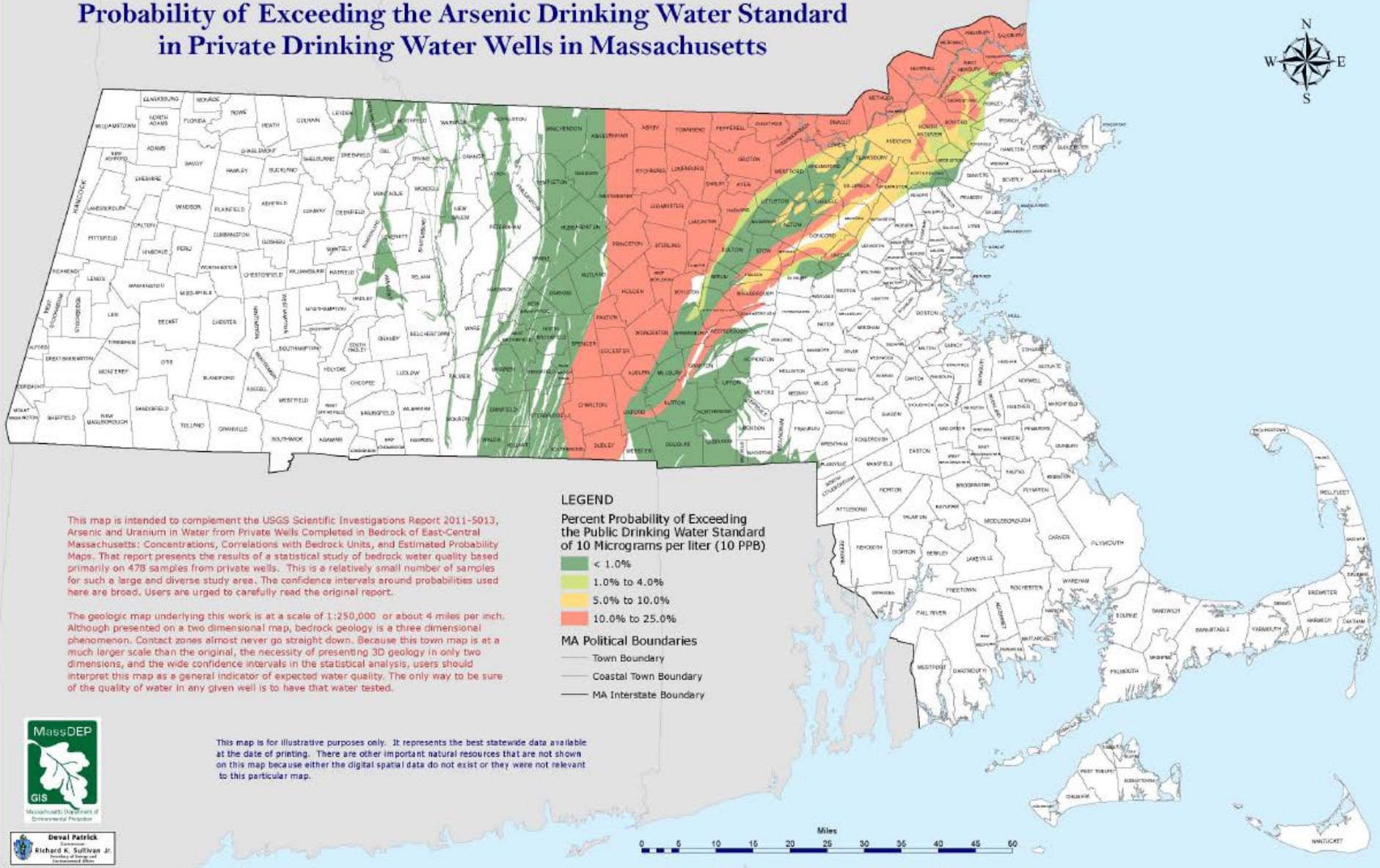
Sarah

For the B1B8 TS sample identifier (Lab ID CR96234), do you still have sufficient soil in this to run the metal arsenic?
If so, though I understand Standard TAT is running at 5 days, what would be the quickest TAT, and what would then be the cost?

Project ID:	WILDWOOD @ NORTH INTERMED
SDG ID:	GCR96234
Sample ID#s:	CR96234 - CR96244

Attachment C

Probability of Exceeding the Arsenic Drinking Water Standard in Private Drinking Water Wells in Massachusetts



This map is intended to complement the USGS Scientific Investigations Report 2011-5013, Arsenic and Uranium in Water from Private Wells Completed in Bedrock of East-Central Massachusetts: Concentrations, Correlations with Bedrock Units, and Estimated Probability Maps. That report presents the results of a statistical study of bedrock water quality based primarily on 478 samples from private wells. This is a relatively small number of samples for such a large and diverse study area. The confidence intervals around probabilities used here are broad. Users are urged to carefully read the original report.

The geologic map underlying this work is at a scale of 1:250,000 or about 4 miles per inch. Although presented on a two dimensional map, bedrock geology is a three dimensional phenomenon. Contact zones almost never go straight down. Because this town map is at a much larger scale than the original, the necessity of presenting 3D geology in only two dimensions, and the wide confidence intervals in the statistical analysis, users should interpret this map as a general indicator of expected water quality. The only way to be sure of the quality of water in any given well is to have that water tested.

This map is for illustrative purposes only. It represents the best statewide data available at the date of printing. There are other important natural resources that are not shown on this map because either the digital spatial data do not exist or they were not relevant to this particular map.

MassDEP GIS
Massachusetts Department of Environmental Protection

Deval Patrick
Governor
Richard K. Sullivan Jr.
Secretary of Energy and Environmental Affairs