



April 18, 2025

The Honorable Leonard Brunell Sr.  
Mayor of the Town of Montville  
310 Norwich-New London Turnpike  
Uncasville, CT 06382

**RE: 2025 MARCH GROUNDWATER MONITORING SUMMARY REPORT – 14 BRIDGE STREET, MONTVILLE, CONNECTICUT (HRP # MON3009.RA)**

Dear Ms. Mayor Brunell:

HRP Associates, Inc. (HRP) was authorized to complete one groundwater monitoring event at the 14 Bridge Street property in Montville, Connecticut (herein referred to as the "Site") to fulfill obligations under the Voluntary Remediation Program (**Figure 1**). The Town of Montville acquired the Site in June 2012 and maintained the industrial Site operations through the present. At the time of the transfer, it was determined that the Site qualified for the Voluntary Remediation Program as defined in Section 22a-133x of the Connecticut General Statutes (CGS). The Site meets the definition of a "Brownfield Site," as defined in Section 32-9kk, and is receiving financial assistance from the Connecticut Department of Economic and Community Development (CT DECD), a registered State agency. An Environmental Condition Assessment Form (ECAF) was filed with the Connecticut Department of Energy and Environmental Protection (CT DEEP) on June 19, 2012. The Town of Montville signed the ECAF as the Certifying Party. The Site was automatically delegated to a Licensed Environmental Professional (LEP) to oversee the investigation and verify the remediation of the Site will be performed in accordance with the Connecticut Remediation Standard Regulations (RSRs). This groundwater sampling event was conducted to evaluate the current condition of groundwater beneath the Site following the previous sampling event conducted in March 2020.

## **REGULATORY CRITERIA**

The quality of groundwater beneath the Site is classified by CT DEEP as GA, and groundwater beneath the Site and surrounding area is known to be used as a source of potable water. A small intermittent stream abuts the Site to the south and flows approximately 200 feet east to Oxoboxo Brook. CT DEEP designated the water quality of Oxoboxo Brook as class B, suitable for recreational use, fish and wildlife habitat, agricultural or industrial supply, and other legitimate uses, including navigation. The B classification indicates that the waters do not meet the water-quality criteria for one or more of the designated uses.

The RSR Groundwater Remediation Standards (Regulations of Connecticut State Agencies (RCSA) Section 22a-133k-3) require that remediation of a groundwater plume in a GA area shall result in the attainment of the groundwater protection criteria (GWPC), surface water protection criteria (SWPC) and volatilization criteria (VC) or the background concentration for groundwater for each substance in the plume.

## CONCEPTUAL SITE MODEL FOR GROUNDWATER

Several previous environmental investigations have been conducted at the Site. The investigations were completed by Paul Burgess, LLC (Burgess) from 2008 through 2009 and by HRP from 2012 through 2020. Results of soil and groundwater sampling are summarized below. HRP has assigned Recognized Environmental Conditions (RECs) identified by Burgess as Areas of Concern (AOCs) with numerical labeling as follows:

- AOC-1: Underground Storage Tank (UST)
- AOC-2: Fuel Oil Aboveground Storage Tanks (ASTs)
- AOC-3: Former Industrial Operations Inside Building
- AOC-4: Loading Docks
- AOC-5: Septic System
- AOC-6: Former Pond
- AOC-7: Former Railroad Siding
- AOC-8: Former Dumpster Location
- AOC-9: Discharge Vents (interior painting operations)
- AOC-10: Boiler Room Discharge

Based on the previous investigations, remaining significant contamination of soils and, to a lesser extent, groundwater on this Site can be attributed to a single source: polluted fill material used at the Site. Polluted fill comprises the majority of subsurface material at the Site as well as the Montville area. The fill is primarily polluted with substances that are characteristic of coal ash, including metals (arsenic, lead, and chromium), petroleum hydrocarbons, and polycyclic aromatic hydrocarbons (PAHs) with select exceedances of the Direct Exposure Criteria (DEC) and GA Pollutant Mobility Criteria (PMC). The fill was emplaced over various intervals to expand the landmass and was not prohibited by law at the time of placement. It is conceivable that historically distant Site operations impacted the environmental quality of the fill above and beyond its original character, but the evolution of the Site including reworking of the fill has rendered those effects indistinguishable from the fill itself. Thus, the Site is left with a subsurface material that is highly heterogeneous.

Due to the nature of the polluted fill, physical removal of the polluted soils from the Site property would have a negligible effect on the environmental quality of the Site and surrounding area. Because the contaminants of concern (COCs) are not highly mobile under natural conditions, when left in place the fill-related pollution is unlikely to significantly change in soil or degrade groundwater further. Remediating a relatively small portion of an extensive regional issue would have little to no environmental benefit. Moreover, pollution on the Site is not hazardous under State or Federal regulations. Remediation at the Site has been designed to take prudent measures to protect human health and the environment from the risks associated with direct exposure to the polluted soil.

Remediation at the Site was conducted to protect human health and the environment from the risks associated with direct exposure to the polluted soil. The completed remedial actions should result in a condition of no significant risk to future Site receptors, provided that inaccessible soils, environmentally isolated soils, and the pavement cap is properly maintained and/or is not disturbed by filing Environmental Land Use Restrictions (ELURs) for the property.

The following alternative physical, institutional, and pavement capping remedial approaches were conducted to limit or eliminate exposure/mobility of polluted soils at the Site:

- Standard Pavement DEC Cap – A “standard pavement cap” was designed to physically isolate the fill material via a new layer of asphalt pavement in the parking areas. HRP was approved by CT DEEP to remediate contaminated Site-wide fill material at the Site via capping soils contaminated above the DEC with asphalt.
- Polluted Material Exemption – The CT RSRs offers a conditional exemption to the GA PMC for “polluted material.” PMC exceedances can be negated by the use of the self-implementing polluted material exemption within the RSRs per RCSA Sec. 22a-133k-2(c)(5)(B)(i)(I) which states that the PMC “is exceeded solely as a result of the presence of coal ash, wood ash, coal fragments, coal slag, coal clinkers, asphalt paving fragments of any combination thereof.” The Site meets the requirements to use this exemption.

## **POST-REMEDATION GROUNDWATER MONITORING PLAN**

According to the RSR [22a-133k-3(g)(2)], the following Groundwater Monitoring Plan was prepared with respect to remediation of release areas. This Groundwater Monitoring Plan was designed to determine:

1. The effectiveness of soil remediation in preventing further pollution of groundwater by substances from the release areas, and to ensure that any substance migrating from a release area will be detected;
2. The effectiveness of any remediation in eliminating or minimizing identified health or safety risks associated with such release;
3. Whether applicable GWPC, SWPC and/or the Residential Volatilization Criteria (RVC) have been met; and
4. Whether the groundwater plume interferes with any existing use of the groundwater for a drinking water supply, or with any other existing use of the groundwater, including but not limited to industrial, agricultural, or commercial purposes.

Based on the existing data, the locations of post-remediation groundwater monitoring wells were selected to optimize groundwater analysis in upgradient non-impacted areas and downgradient of known contaminant release areas and remediation areas.

## **PREVIOUS GROUNDWATER EVENTS**

Groundwater contaminated with extractable total petroleum hydrocarbons (ETPH), PAHs, lead, and zinc has been identified during previous sampling events conducted at the Site from 2008 to

2020. In order to demonstrate compliance with the RSRs, concentrations of COCs in groundwater for the Site need to be less than their respective applicable RSR criteria during four quarterly sampling events conducted over a two-year period. The Site is located in a "GA" groundwater classification area. In GA groundwater classification areas, compliance with the GWPC can be met if the concentrations of contaminants in groundwater do not interfere with existing uses of that groundwater (as opposed to having to be remediated to background conditions), therefore the applicable criteria are the GWPC, SWPC, and residential groundwater volatilization criteria (RGWVC).

Five post remediation groundwater monitoring events were performed by HRP between January 2019 and March 2020. Volatile organic compounds (VOCs), lead, and cyanide were compliant with the GWPC, SWPC, and RGWVC for the Site during these events, however, compliance with the applicable criteria has not been demonstrated for ETPH, PAHs, and zinc.

### **MARCH 2025 GROUNDWATER SAMPLING**

On March 24, 2025, a groundwater monitoring event was performed by HRP personnel involving the collection and laboratory analysis of groundwater samples from three of the four monitoring wells (MW-1 was not sampled).

#### Monitoring Well Network

All previously existing overburden monitoring wells were destroyed during remediation activities conducted in 2018 (installation of the pavement cap) due to their location within the excavation and repaving areas. Four overburden monitoring wells, designated as MW-1 through MW-4, were installed in November of 2018 upon completion of remediation activities in areas downgradient of remediation areas and/or hydrologically relevant. Monitoring well MW-2 is located on the upgradient portion of the Site. Additionally, one potable well is present within the Site building (which was not sampled during this event). The monitoring wells were installed using a GeoProbe® direct push rig by HRP's drilling subcontractor. The construction of the monitoring wells replicated previously existing monitoring wells. The new monitoring wells were developed following installation to remove entrained sediment and sampled, at minimum, fourteen days following installation in order to achieve well stabilization. The installed post-remediation monitoring wells are designated as MW-1, MW-2, MW-3, and MW-4, and the potable well is designated as Interior Well, as depicted on **Figure 2**.

Following post-remediation monitoring well installation/development activities, each existing wellhead (polyvinyl chloride (PVC) riser) was surveyed relative to a common benchmark. Survey data collected from the four onsite monitoring wells and the interior well, was then used during each quarterly event to determine relative groundwater elevations and calculate horizontal groundwater flow direction. The depths to water table measurements were collected from the onsite monitoring wells during each sampling event using an electronic water level indicator.

#### Methods and Scope

Groundwater purging and sample collection from Site wells was performed using low-flow sampling techniques in accordance with HRP's standard operating procedure and as

recommended by CT DEEP. Single-use polyethylene tubing and a peristaltic pump were used to collect the samples. Prior to sampling, the depth to water was measured using a decontaminated electronic water level indicator and geochemistry parameters were monitored until stabilization was achieved. During well purging, HRP personnel monitored and recorded the following field parameters pursuant to low-flow groundwater sampling procedures:

- Depth to water ( $\Delta 0.3'$ ),
- pH ( $\Delta 0.1\%$ ),
- Temperature ( $\Delta 3\%$ ),
- Specific conductivity ( $\Delta 3\%$ ),
- Oxidation reduction potential ( $\Delta 10$  millivolts (mV)),
- Dissolved Oxygen ( $\Delta 10\%$ ), and
- Turbidity ( $\Delta 10\% > 5$  nephelometric turbidity units (NTU)).

Groundwater samples were collected after field stabilization parameters achieved the required criteria as noted above (percent change, or  $\Delta X\%$ ), with the exception of well MW-2 where a grab sample was collected due poor yield observed during previous sampling events. Samples for lead and zinc from wells MW-2 and MW-4 were field filtered with a 10-micron filter to reduce the effect of turbidity on concentrations of lead and zinc in groundwater. Monitoring Well Field Data Sheets are included as **Attachment 1**.

Groundwater samples were placed in laboratory-provided and preserved glassware, stored on ice in coolers, and submitted under proper chain-of-custody to Complete Environmental Testing, Inc. (CET) of Stratford, Connecticut.

The onsite monitoring wells were sampled and analyzed for the following compounds:

- ETPH by the CT Department of Public Health Method (MW-2, MW-3, and MW-4);
- PAHs by U.S. Environmental Protection Agency (EPA) Method 8270 (MW-2 and MW-3); and
- Lead (MW-2) and zinc (MW-2 and MW-4).

For wells MW-2 and MW-4, both filtered (labelled MW-2F10 and MW-4F10) and non-filtered (labelled MW-2 and MW-4) samples were submitted for lead and zinc analysis.

### Groundwater Flow

All sampled monitoring wells and well MW-1 were gauged for depth to groundwater to confirm the direction of groundwater flow. The water table at the Site was generally observed at depths ranging from 2.17 feet below grade at well MW-1 to 6.76 feet below grade at well MW-2. In general, groundwater in the shallow overburden aquifer flows to the east as shown on **Figure 2**. Refer to **Table 1** for groundwater elevation data. This groundwater flow direction is expected based on the area topography and the presence of the Oxoboxo Brook to the east and northeast of the Site.

### Groundwater Sampling Results

The laboratory report is included in **Attachment 1**. Groundwater sampling results are summarized in **Table 2** (constituents with detections only). **Table 2** provides groundwater sample results for events completed since January of 2019.

Lead (both filtered and non-filtered samples) was detected at concentrations less than the applicable RSR numeric criteria in groundwater from MW-2. Zinc (both filtered and non-filtered samples) was detected at concentrations greater than the SWPC numeric value in the groundwater from wells MW-2 and MW-4. The concentrations detected in the filtered samples were slightly less than those detected in the non-filtered samples, indicating the turbidity is not having an effect on the lead and zinc concentrations, and that the two metals are dissolved in the groundwater.

Two PAHs, benzo(a)anthracene and benzo(b)fluoranthene, were reported at concentrations greater than their respective GWPC numeric values in groundwater sampled at monitoring well MW-2; benzo(k)fluoranthene was also detected in the well at a concentration less than applicable RSR criteria. PAH compounds 2-methylnaphthalene, acenaphthene, acenaphthylene, fluorene, and phenanthrene were detected at concentrations less than their respective RSR criteria in the groundwater sample collected from monitoring well MW-3.

ETPH was detected in all three sampled wells, with the concentration detected in MW-3 greater than the GWPC, SWPC and RGWVC numeric values.

### **QUALITY ASSURANCE AND CONTROL**

Starting September 1, 2007, CT DEEP required that analytical data be generated using the Reasonable Confidence Protocols (RCP). The purpose of the RCP is to ensure that the data generated by the laboratory is usable for the intended purpose of the investigation currently being conducted. Quality Assurance/Quality Control (QA/QC) measures were implemented throughout this study to provide input as to the validity and usability of data generated through groundwater sampling.

The intended purpose of the data obtained during the groundwater sampling event was to evaluate the quality of groundwater on the Site in relation to RSR criteria for demonstration of compliance. QA/QC measures implemented included use of the CT DEEP RCP.

Each RCP report contains a Laboratory Analysis QA/QC Certification Form which consists of seven yes or no questions to be answered by the laboratory. If any question, other than Number 7, is answered no then a reason for the "no" answer must be provided in the case narrative. Each RCP report includes a case narrative that details deviations from the protocols. Question 6 is answered "no" due to a partial (PAHs only) EPA Method 8270 Semi-Volatile Organic Compounds (SVOCs) and EPA Method 6020 metals analyte lists.

Groundwater samples were collected using low-flow sampling techniques with peristaltic pumps to reduce the amount of sediment or other particulate matter that could be generated during



purging of the wells, with the exception of MW-2. HRP monitored various parameters during purging using a YSI multi-channel meter and other field instrumentation during the sampling, including turbidity. Samples were collected after the turbidity readings stabilized ( $\Delta 10\%$ ) from monitoring wells MW-3 and MW-4. Poor yield from monitoring well MW-2 resulted in the collection of a grab sample prior to purging or stabilization. Lead and zinc samples collected from wells MW-2 and MW-4 were filtered with a 10-micron filter (named MW-2F10 and MW-4F10); nonfiltered samples were also collected from these wells (named MW-2 and MW-4). Copies of the Monitoring Well Data Sheets documenting field parameter readings are included as **Attachment 2**.

Typical laboratory QA/QC was conducted and included method blank, calibration standard, surrogate, duplicate, and spike samples. All reported results were within the defined laboratory QC objectives.

Based on a review of the implemented QA/QC procedures, including the Laboratory Analysis QA/QC certification forms and case narratives, it is HRP's opinion that the data generated by this investigation is usable for its intended purpose.

## CONCLUSIONS AND RECOMMENDATIONS

HRP conducted a groundwater monitoring event on March 24, 2025, to evaluate the condition of groundwater beneath the Site in order to determine if groundwater quality has improved since the previous sampling event conducted in March 2020. The results of the 2025 sampling event are consistent with those reported for the 2020 sampling event, with concentrations of lead (MW-2, less than RSR numeric criteria), zinc (MW-4, greater than the numeric SWPC), PAHs (MW-2, greater than numeric GWPC), and ETPH (MW-3, greater than the numeric GWPC, SWPC, and RGWVC) were detected at similar concentrations in the same wells as were detected during the March 2020 sampling event, indicating that groundwater conditions have not improved and that the groundwater still does not comply with the RSR criteria.

Based on the results of this sampling event, compliance with the RSRs for groundwater is unlikely in the near future without a remedial activity and/or the potential use of alternative methods of compliance.

If you have any questions or require additional information, please feel free to contact HRP at (860) 674-9570.

Sincerely,



Vincent L. DeLeone, LEP  
Associate Project Manager



Lisa D. Aglieco  
Project Manager

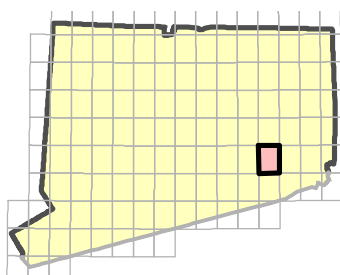
Attachments

# FIGURES





0 1,000 2,000 4,000 6,000 8,000 Feet  
1 inch = 2,000 feet



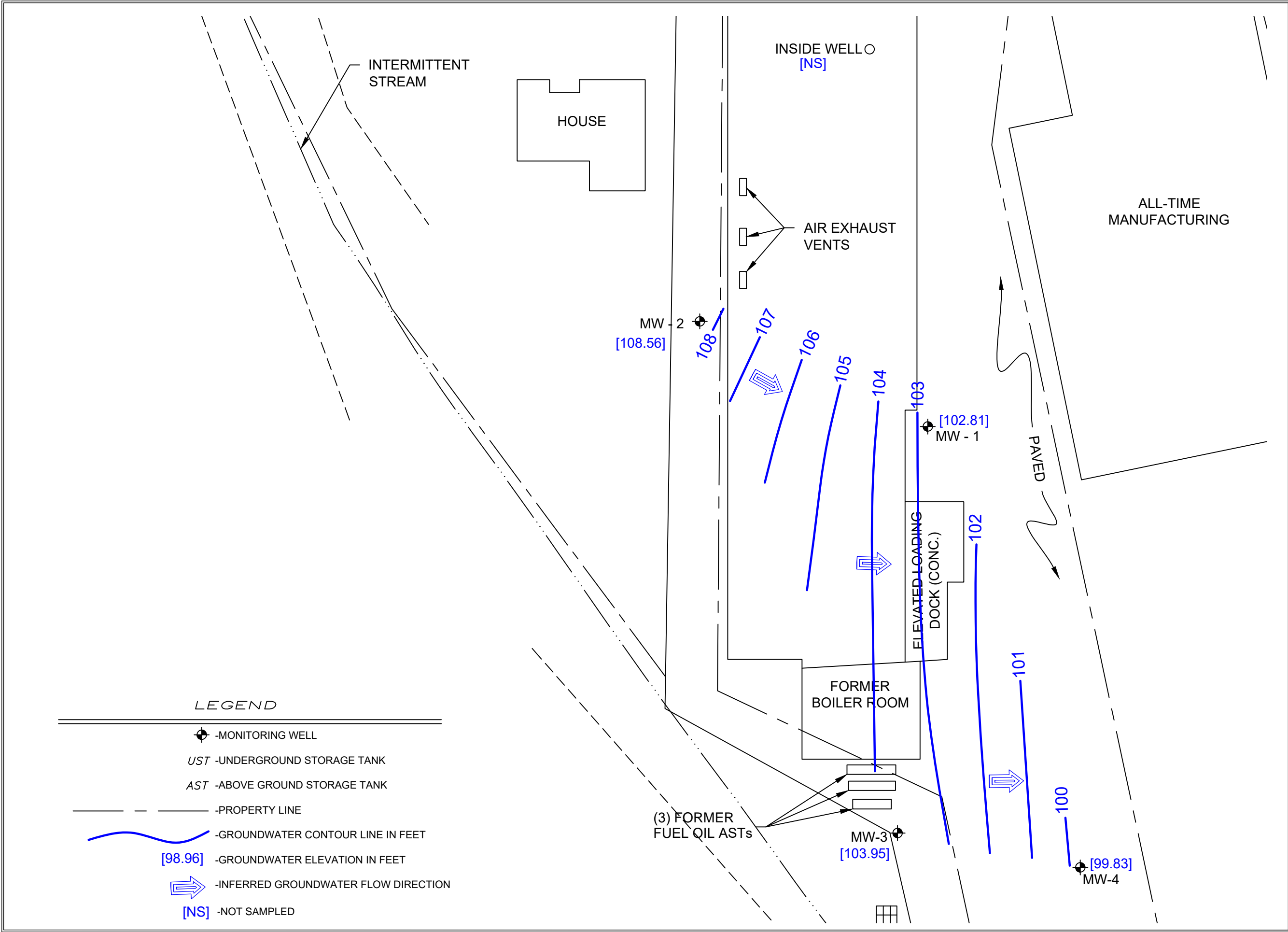
USGS Quadrangle Information  
Quad ID: 41072-D2  
Name: Montville, Connecticut  
Date Pub: 1984


**Figure 1**  
**Site Location**  
**14 Bridge Street**  
**Montville, Connecticut**  
**HRP# MON3009.GW**  
**Scale 1" = 2,000'**



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REVISIONS		DESIGNED BY:	ISSUE DATE:	GROUNDWATER CONTOURS AND MONITORING WELL LOCATIONS MARCH 2025 TOWN OF MONTVILLE 14 BRIDGE STREET MONTVILLE, CONNECTICUT
NO.	DATE	VLD	04/15/2025	
		DRAWN BY: <th>PROJECT NUMBER:</th>	PROJECT NUMBER:	
		BOB <th>MON3009.GW</th>	MON3009.GW	
		REVIEWED BY: <th>SHEET SIZE:</th>	SHEET SIZE:	
		VLD <th>11"x17"</th>	11"x17"	

SHEET NO.

**Fig. 2**

# TABLES

**Table 1**  
 March 2025  
 Groundwater Elevations  
 14 Bridge Street  
 Montville, CT  
 HRP# MON3009.GW

		24-Mar-2025	
Well	Top of Casing (feet)	Depth to Water (feet below grade)	Groundwater Elevation (feet)
MW-1	104.98	2.17	102.81
MW-2	115.32	6.76	108.56
MW-3	106.07	2.12	103.95
MW-4	102.73	2.9	99.83

TABLE 2  
Summary of Groundwater Analytical Results  
14 Bridge Street, Montville, CT

Lab Report No.: 19A0960						19D1328	19G1393	19K0107	20C0256	19A0960	19D1328	19G1393	19K0107	20C0256
Lab Sample No.: 19A0960-05SITE						19D1328-05SITE	19G1393-05SITE	19K0107-05SITE	20C0256-05SITE	19A0960-01SITE	19D1328-01SITE	19G1393-01SITE	19K0107-01SITE	20C0256-01SITE
Sample ID: Interior Well						Interior Well	Interior Well	Interior Well	Interior Well	MW-1	MW-1	MW-1	MW-1	MW-1
Date Collected: 1/17/2019						4/24/2019	7/24/2019	10/31/19	3/4/2020	1/17/2019	4/24/2019	7/24/2019	10/31/19	3/4/2020
WATER-Metals	CAS	Units	2021 - Res GWVC	2021 - GWPC	2021 - SWPC									
Arsenic	7440-38-2	mg/l	NE	0.05	0.004	<0.002	<0.0008	<0.0008	<0.0008	<0.002	<0.0008	<0.0008	<0.0008	<0.0008
Barium	7440-39-3	mg/l	NE	1	2.2*	<0.050	0.049	0.045	0.033	<0.050	0.042	0.049	0.035	0.021
Cadmium	7440-43-9	mg/l	NE	0.005	0.006	<0.0025	<0.0002	<0.0002	<0.0002	<0.0025	<0.0002	<0.0002	<0.0002	<0.0002
Chromium, Total	7440-47-3	mg/l	NE	0.05	0.11	<0.005	<0.001	<0.001	<0.001	<0.005	<0.001	0.002	<0.001	<0.001
Lead	7439-92-1	mg/l	NE	0.015	0.013	<0.005	0.00065	0.00076	0.0012	<0.005	<0.0005	<0.0005	<0.0005	<0.0005
Mercury	7439-97-6	mg/l	NE	0.002	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Selenium	7782-49-2	mg/l	NE	0.05	0.05	<0.0025	<0.005	<0.005	<0.005	<0.025	<0.005	<0.005	<0.005	<0.005
Silver	7440-22-4	mg/l	NE	0.036	0.012	<0.0025	<0.0002	<0.0002	<0.0002	<0.0025	<0.0002	<0.0002	<0.0002	<0.0002
Zinc	7440-66-6	mg/l	NE	5	0.123	<0.050	0.020	0.024	0.019	<0.050	0.033	0.027	0.016	<0.010
WATER-PAHs-8270C														
2-Methylnaphthalene	91-57-6	µg/l	NE	28	62	< 0.96	< 0.97	< 0.96	< 0.98	< 0.96	< 0.98	< 0.98	< 1	< 0.99
Acenaphthene	83-32-9	µg/l	NE	420*	150*	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.3	<0.3
Acenaphthylene	208-96-8	µg/l	NE	420	0.3	<0.19	<0.19	<0.19	<0.2	<0.19	<0.2	<0.2	<0.2	<0.2
Benzo(a)anthracene	56-55-3	µg/l	NE	0.06	0.3	<0.048	<0.049	<0.048	<0.049	<0.048	<0.049	<0.049	<0.05	<0.05
Benzo(a)pyrene	50-32-8	µg/l	NE	0.2	0.3	<0.096	<0.097	<0.096	<0.098	<0.096	<0.098	<0.098	<0.1	<0.099
Benzo(b)fluoranthene	205-99-2	µg/l	NE	0.08	0.3	<0.048	<0.049	<0.048	<0.049	<0.048	<0.049	<0.049	<0.05	<0.05
Benzo(k)fluoranthene	207-08-9	µg/l	NE	0.5	0.3	<0.19	<0.19	<0.19	<0.2	<0.19	<0.2	<0.2	<0.2	<0.2
Chrysene	218-01-9	µg/l	NE	4.8*	0.54*	<0.19	<0.19	<0.19	<0.2	<0.19	<0.2	<0.2	<0.2	<0.2
Fluoranthene	206-44-0	µg/l	NE	280	3,700	<0.48	<0.49	<0.48	<0.049	<0.48	<0.49	<0.49	<0.5	<0.5
Fluorene	86-73-7	µg/l	NE	280	140,000	<0.96	<0.97	<0.96	<0.98	<0.98	<0.98	<0.98	<1	<0.99
Indeno(1,2,3-cd)pyrene	193-39-5	µg/l	NE	0.1*	0.54*	<0.096	<0.097	<0.096	<0.098	<0.096	<0.098	<0.098	<0.1	<0.099
Phenanthrene	85-01-8	µg/l	NE	200	14*	<0.048	<0.049	<0.048	<0.049	<0.048	<0.049	<0.049	<0.05	<0.05
WATER-VOCs-8260B														
1,1,2,2-Tetrachloroethane	79-34-5	µg/l	1.8	0.5	110*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane (EDB) (ethylene dibromide)	106-93-4	µg/l	0.3	NE	NE	(<0.5)	(<0.5)	(<0.5)	(<0.5)	(<0.5)	(<0.5)	(<0.5)	(<0.5)	(<0.5)
Acrylonitrile	107-13-1	µg/l	NE	0.5	20	(<2)	(<2)	(<2)	(<2)	(<2)	(<2)	(<2)	(<2)	(<2)
Benzene	71-43-2	µg/l	215	1	710	<0.5	<1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
Dibromochloromethane	124-48-1	µg/l	NE	0.5	1,020	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride (Dichloromethane)	75-09-2	µg/l	160	5	48,000	<5	<5	<5	<5	<5	<5	<5	<5	<5
WATER-CTETPH														
CT ETPH	CT ETPH	mg/l	0.25	0.25	0.25*	<0.072	<0.15	<0.14	0.23	<0.14	<0.074	<0.15	<0.15	<0.14
WATER-Misc														
Cyanide, Total	57-12-5	mg/l	NE	0.2	0.052	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.014	<0.01	<0.01

Legend	
1	Parameter reported at a concentration greater than applicable regulatory standard/criterion
( )	Indicates the laboratory reporting limit is greater than one or more applicable comparison criteria

Notes:  
\* = 2018 DEEP Recommended Numeric Criterion for Common Additional Polluting Substances  
mg/l = milligrams per liter  
µg/l = micrograms per liter  
Res GWVC = Residential Volatilization Criteria for Groundwater  
SWPC = Surface Water Protection Criteria  
GWPC = Groundwater Protection Criteria  
PAHs = Polycyclic (polynuclear) Aromatic Hydrocarbons  
VOCs = Volatile Organic Compounds  
ETPH = Extractable Total Petroleum Hydrocarbons  
NA = Not Submitted for Analysis  
NE = Not Established

TABLE 2  
Summary of Groundwater Analytical Results  
14 Bridge Street, Montville, CT

Lab Report No.: 19A0960						19D1328	19G1393	19K0107	20C0256	25C1501	25C1501	19A0960	19D1328	19G1393	19K0107	20C0256	25C1501	19A0960	19D1328	19G1393	19K0107	20C0256	25C1501	25C1501	
Lab Sample No.: 19A0960-02SITE						19D1328-02SITE	19G1393-02SITE	19K0107-02SITE	20C0256-02SITE	25C1501-01	L2518002-01	19A0960-03SITE	19D1328-03SITE	19G1393-03SITE	19K0107-03SITE	20C0256-03SITE	25C1501-02	19A0960-04SITE	19D1328-04SITE	19G1393-04SITE	19K0107-04SITE	20C0256-04SITE	25C1501-04	L2518002-04	
Sample ID: MW-2						MW-2	MW-2	MW-2	MW-2	MW-2	MW-2F10	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4F10	
Date Collected: 1/17/2019						4/24/2019	7/24/2019	10/31/19	3/4/2020	03/24/25	03/24/25	1/17/2019	4/24/2019	7/24/2019	10/31/19	3/4/2020	03/24/25	1/17/2019	4/24/2019	7/24/2019	10/31/19	3/4/2020	03/24/25	03/24/25	
WATER-Metals	CAS	Units	2021 - Res GWVC	2021 - GWPC	2021 - SWPC																				
Arsenic	7440-38-2	mg/l	NE	0.05	0.004	<0.002	<0.0008	<0.0008	<0.0008	<0.0008	-	-	<0.002	0.0009	0.00082	0.0011	<0.0008	-	<0.002	<0.0008	0.0017	0.0011	<0.0008	-	-
Barium	7440-39-3	mg/l	NE	1	2.2*	0.051	0.051	0.044	0.052	0.027	-	-	0.047	0.140	0.092	0.091	0.065	-	0.084	0.056	0.036	0.043	0.036	-	-
Cadmium	7440-43-9	mg/l	NE	0.005	0.006	<0.0025	<0.0002	<0.0002	<0.0002	<0.0002	-	-	<0.0025	<0.0002	<0.0002	<0.0002	<0.0002	-	<0.0025	<0.0002	<0.0002	<0.0002	<0.0002	-	-
Chromium, Total	7440-47-3	mg/l	NE	0.05	0.11	<0.005	0.0012	0.0022	0.0051	0.001	-	-	<0.005	<0.001	0.001	0.0015	<0.001	-	<0.005	<0.001	<0.001	0.0016	<0.001	-	-
Lead	7439-92-1	mg/l	NE	0.015	0.013	0.014	0.0012	0.0057	0.018	0.0016	0.002751	0.001028	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	-	<0.005	0.0006	<0.0005	0.0045	0.0017	-	-
Mercury	7439-97-6	mg/l	NE	0.002	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-
Selenium	7782-49-2	mg/l	NE	0.05	0.05	<0.025	<0.005	<0.005	<0.005	<0.005	-	-	<0.025	<0.005	<0.005	<0.005	<0.005	-	<0.025	<0.005	<0.005	<0.005	<0.005	-	-
Silver	7440-22-4	mg/l	NE	0.036	0.012	<0.0025	<0.0002	<0.0002	<0.0002	<0.0002	-	-	<0.0025	<0.0002	<0.0002	<0.0002	<0.0002	-	<0.0025	<0.0002	<0.0002	<0.0002	<0.0002	-	-
Zinc	7440-66-6	mg/l	NE	5	0.123	<0.050	0.072	0.094	0.15	0.580	0.5198	0.423	<0.050	<0.010	<0.010	<0.010	<0.010	-	0.054	0.021	<0.010	0.340	0.240	0.814	0.7398
WATER-PAHs-8270C																									
2-Methylnaphthalene	91-57-6	µg/l	NE	28	62	< 1.4	< 0.97	< 0.96	< 0.98	< 2	<0.24	-	< 0.98	< 0.98	< 0.96	< 0.99	< 0.95	0.49	< 0.97	< 0.98	< 0.96	< 0.95	-	-	
Acenaphthene	83-32-9	µg/l	NE	420*	150*	<0.43	<0.29	<0.29	<0.29	<0.59	<0.24	-	1.6	1.5	1.3	0.91	0.92	1.6	0.61	0.62	0.81	0.55	0.46	-	-
Acenaphthylene	208-96-8	µg/l	NE	420	0.3	<0.29	<0.19	<0.19	<0.2	<0.39	<0.24	-	0.38	0.41	0.35	0.23	0.27	0.53	<0.19	<0.2	<0.19	<0.19	<0.19	-	-
Benzo(a)anthracene	56-55-3	µg/l	NE	0.06	0.3	0.56	0.062	0.084	0.16	0.17	0.11	-	<0.049	<0.049	<0.048	<0.049	<0.047	<0.047	<0.049	<0.049	<0.048	<0.047	<0.047	-	-
Benzo(a)pyrene	50-32-8	µg/l	NE	0.2	0.3	0.63	<0.097	<0.096	0.16	<0.2	<0.047	-	<0.098	<0.098	<0.096	<0.099	<0.095	<0.047	<0.097	<0.098	<0.096	<0.095	<0.095	-	-
Benzo(b)fluoranthene	205-99-2	µg/l	NE	0.08	0.3	0.82	0.086	0.12	0.22	0.25	0.14	-	<0.049	<0.049	<0.048	<0.049	<0.047	<0.047	<0.049	<0.049	<0.048	<0.047	<0.047	-	-
Benzo(k)fluoranthene	207-08-9	µg/l	NE	0.5	0.3	0.3	<0.19	<0.19	<0.2	<0.39	0.057	-	<0.2	<0.2	<0.19	<0.2	<0.19	<0.047	<0.19	<0.2	<0.19	<0.19	<0.19	-	-
Chrysene	218-01-9	µg/l	NE	4.8*	0.54*	0.62	<0.19	<0.19	<0.2	<0.39	<0.24	-	<0.2	<0.2	<0.19	<0.2	<0.19	<0.047	<0.19	<0.2	<0.19	<0.19	<0.19	-	-
Fluoranthene	206-44-0	µg/l	NE	280	3,700	1.1	<0.48	<0.48	<0.49	<0.98	<0.24	-	<0.49	<0.49	<0.48	<0.49	<0.47	<0.047	<0.49	<0.49	<0.48	<0.47	<0.47	-	-
Fluorene	86-73-7	µg/l	NE	280	140,000	<1.4	<0.97	<0.96	<0.98	<2	<0.24	-	1.9	2	1.6	1.1	1	0.65	<0.97	<0.98	<0.96	<0.95	<0.95	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	µg/l	NE	0.1*	0.54*	0.45	<0.097	<0.096	0.13	<0.2	<0.047	-	<0.098	<0.098	<0.096	<0.099	<0.095	<0.047	<0.097	<0.098	<0.096	<0.095	<0.095	-	-
Phenanthrene	85-01-8	µg/l	NE	200	14*	0.3	<0.048	<0.048	0.1	<0.098	<0.24	-	0.67	1.2	1	0.83	0.76	0.42	<0.049	<0.049	<0.048	<0.047	<0.047	-	-
WATER-VOCs-8260B																									
1,1,2,2-Tetrachloroethane	79-34-5	µg/l	1.8	0.5	110*	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<1	<1	<1	<1	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
1,2-Dibromoethane (EDB) (ethylene dibromide)	106-93-4	µg/l	0.3	NE	NE	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<1	<1	<1	<1	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Acrylonitrile	107-13-1	µg/l	NE	0.5	20	<2	<2	<2	<2	<2	-	-	<4	<4	<4	<4	<2	-	<2	<2	<2	<2	<2	-	-
Benzene	71-43-2	µg/l	215	1	710	<0.5	<1	<0.5	<0.5	<0.5	-	-	<1	<2	<1	<1	<0.5	-	<0.5	<1	<0.5	<0.5	<0.5	-	-
Dibromochloromethane	124-48-1	µg/l	NE	0.5	1,020	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<1	<1	<1	<1	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-
Methylene chloride (Dichloromethane)	75-09-2	µg/l	160	5	48,000	<5	<5	<5	<5	<5	-	-	<10	<10	<10	<10	<5	-	<5	<5	<5	<5	<5	-	-
WATER-CTETPH																									
CT ETPH	CT ETPH	mg/l	0.25	0.25	0.25*	0.45	0.19	0.27	0.41	0.16	0.21		1.1	1	0.7	0.82	0.68	0.41	0.18	0.24	0.19	0.32	0.23	0.22	-
WATER-Misc																									
Cyanide, Total	57-12-5	mg/l	NE	0.2	0.052	<0.01	<0.01	<0.01	0.01	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	0.014	-	-

**Legend**

<b>1</b>	Parameter reported at a concentration greater than applicable regulatory standard/criterion
( )	Indicates the laboratory reporting limit is greater than one or more applicable comparison criteria

**Notes:**  
\* = 2018 DEEP Recommended Numeric Criterion for Common Additional Polluting Substances  
mg/l = milligrams per liter  
µg/l = micrograms per liter  
Res GWVC = Residential Volatilization Criteria for Groundwater  
SWPC = Surface Water Protection Criteria  
GWPC = Groundwater Protection Criteria  
PAHs = Polycyclic (polynuclear) Aromatic Hydrocarbons  
VOCs = Volatile Organic Compounds  
ETPH = Extractable Total Petroleum Hydrocarbons  
NA = Not Submitted for Analysis  
NE = Not Established

# ATTACHMENT 1

## Analytical Laboratory Reports





Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

April 8, 2025

Vinny DeLeone  
HRP Associates, Inc. (Private)  
197 Scott Swamp Road  
Farmington, CT 06032

Project Location: 14 Bridge St., Montville, CT  
Client Job Number:  
Project Number: MON3009GW  
Laboratory Work Order Number: 25C1501

Enclosed are results of analyses for samples as received by the laboratory on March 25, 2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Margaret A. Peruccio  
Project Manager

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## Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

HRP Associates, Inc. (Private)  
 197 Scott Swamp Road  
 Farmington, CT 06032  
 ATTN: Vinny DeLeone

REPORT DATE: 4/8/2025

PURCHASE ORDER NUMBER:

PROJECT NUMBER: MON3009GW

## ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25C1501

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: 14 Bridge St., Montville, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-2	25C1501-01	Ground Water		CTDEP ETPH SW-846 6020B	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8270E	
MW-3	25C1501-02	Ground Water		CTDEP ETPH SW-846 8270E	
MW-4	25C1501-03	Ground Water		CTDEP ETPH SW-846 6020B	MA M-MA-086/CT PH-0574/NY11148
MW-2F10	25C1501-04	Ground Water		SW-846 6020B	MA M-MA-086/CT PH-0574/NY11148
MW-4F10	25C1501-05	Ground Water		SW-846 6020B	MA M-MA-086/CT PH-0574/NY11148

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270E, only PAHs were requested and reported.

The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", written over a light pink rectangular background.

Lisa A. Worthington  
Technical Representative



## Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 14 Bridge St., Montville, CT

Sample Description:

Work Order: 25C1501

Date Received: 3/25/2025

Field Sample #: MW-2

Sampled: 3/24/2025 09:30

Sample ID: 25C1501-01

Sample Matrix: Ground Water

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Acenaphthylene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Anthracene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Benzo(a)anthracene (SIM)	0.11	0.047	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Benzo(a)pyrene (SIM)	ND	0.047	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Benzo(b)fluoranthene (SIM)	0.14	0.047	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Benzo(g,h,i)perylene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Benzo(k)fluoranthene (SIM)	0.057	0.047	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Chrysene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Dibenz(a,h)anthracene (SIM)	ND	0.047	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Fluoranthene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Fluorene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.047	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
2-Methylnaphthalene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Naphthalene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Phenanthrene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Pyrene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 12:43	JEA
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (SIM)		108	30-130					4/6/25 12:43	
2-Fluorobiphenyl (SIM)		91.2	30-130					4/6/25 12:43	
p-Terphenyl-d14 (SIM)		85.3	30-130					4/6/25 12:43	



## Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 14 Bridge St., Montville, CT

Sample Description:

Work Order: 25C1501

Date Received: 3/25/2025

Sampled: 3/24/2025 09:30

Field Sample #: MW-2

Sample ID: 25C1501-01

Sample Matrix: Ground Water

## Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.21	0.19	mg/L	1		CTDEP ETPH	3/26/25	3/27/25 11:34	SNB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	84.4		50-150					3/27/25 11:34	



## Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 14 Bridge St., Montville, CT

Sample Description:

Work Order: 25C1501

Date Received: 3/25/2025

Field Sample #: MW-3

Sampled: 3/24/2025 13:08

Sample ID: 25C1501-02

Sample Matrix: Ground Water

## Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	1.6	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Acenaphthylene (SIM)	0.53	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Anthracene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Benzo(a)anthracene (SIM)	ND	0.047	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Benzo(a)pyrene (SIM)	ND	0.047	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Benzo(b)fluoranthene (SIM)	ND	0.047	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Benzo(g,h,i)perylene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Benzo(k)fluoranthene (SIM)	ND	0.047	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Chrysene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Dibenz(a,h)anthracene (SIM)	ND	0.047	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Fluoranthene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Fluorene (SIM)	0.65	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.047	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
2-Methylnaphthalene (SIM)	0.49	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Naphthalene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Phenanthrene (SIM)	0.42	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Pyrene (SIM)	ND	0.24	µg/L	1		SW-846 8270E	3/31/25	4/6/25 13:07	JEA
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Nitrobenzene-d5 (SIM)	107		30-130				4/6/25 13:07		
2-Fluorobiphenyl (SIM)	92.9		30-130				4/6/25 13:07		
p-Terphenyl-d14 (SIM)	80.3		30-130				4/6/25 13:07		





## Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 14 Bridge St., Montville, CT

Sample Description:

Work Order: 25C1501

Date Received: 3/25/2025

Sampled: 3/24/2025 13:08

Field Sample #: MW-3

Sample ID: 25C1501-02

Sample Matrix: Ground Water

## Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.41	0.19	mg/L	1		CTDEP ETPH	3/26/25	3/27/25 10:53	SNB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	78.2		50-150					3/27/25 10:53	



## Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 14 Bridge St., Montville, CT

Sample Description:

Work Order: 25C1501

Date Received: 3/25/2025

Field Sample #: MW-4

Sampled: 3/24/2025 11:25

Sample ID: 25C1501-03

Sample Matrix: Ground Water

## Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.22	0.20	mg/L	1		CTDEP ETPH	3/26/25	3/27/25 11:14	SNB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	83.2		50-150				3/27/25 11:14		



Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

**Sample Extraction Data****Prep Method: SW-846 3510C-CTDEP ETPH**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1501-01 [MW-2]	B401684	1040	1.00	03/26/25
25C1501-02 [MW-3]	B401684	1040	1.00	03/26/25
25C1501-03 [MW-4]	B401684	1020	1.00	03/26/25

**Prep Method: SW-846 3511-SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C1501-01 [MW-2]	B401928	42.3	2.00	03/31/25
25C1501-02 [MW-3]	B401928	42.5	2.00	03/31/25



## Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

## QUALITY CONTROL

## Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	----	-------	-------------	---------------	------	-------------	-----	-----------	-------

## Batch B401928 - SW-846 3511

## Blank (B401928-BLK1)

Prepared: 03/31/25 Analyzed: 04/06/25

Acenaphthene (SIM)	ND	0.25		µg/L							
Acenaphthylene (SIM)	ND	0.25		µg/L							
Anthracene (SIM)	ND	0.25		µg/L							
Benzo(a)anthracene (SIM)	ND	0.050		µg/L							
Benzo(a)pyrene (SIM)	ND	0.050		µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050		µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.25		µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.050		µg/L							
Chrysene (SIM)	ND	0.25		µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.050		µg/L							
Fluoranthene (SIM)	ND	0.25		µg/L							
Fluorene (SIM)	ND	0.25		µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.050		µg/L							
2-Methylnaphthalene (SIM)	ND	0.25		µg/L							
Naphthalene (SIM)	ND	0.25		µg/L							
Phenanthrene (SIM)	ND	0.25		µg/L							
Pyrene (SIM)	ND	0.25		µg/L							
Surrogate: Nitrobenzene-d5 (SIM)	5.06			µg/L	5.000		101	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	4.03			µg/L	5.000		80.7	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	4.34			µg/L	5.000		86.8	30-130			

## LCS (B401928-BS1)

Prepared: 03/31/25 Analyzed: 04/06/25

Acenaphthene (SIM)	2.20	0.25		µg/L	2.500		88.2	40-140			
Acenaphthylene (SIM)	2.37	0.25		µg/L	2.500		94.7	40-140			
Anthracene (SIM)	2.37	0.25		µg/L	2.500		94.8	40-140			
Benzo(a)anthracene (SIM)	2.39	0.050		µg/L	2.500		95.5	40-140			
Benzo(a)pyrene (SIM)	2.50	0.050		µg/L	2.500		100	40-140			
Benzo(b)fluoranthene (SIM)	2.61	0.050		µg/L	2.500		104	40-140			
Benzo(g,h,i)perylene (SIM)	2.46	0.25		µg/L	2.500		98.4	40-140			
Benzo(k)fluoranthene (SIM)	2.74	0.050		µg/L	2.500		110	40-140			
Chrysene (SIM)	2.35	0.25		µg/L	2.500		93.9	40-140			
Dibenz(a,h)anthracene (SIM)	2.75	0.050		µg/L	2.500		110	40-140			
Fluoranthene (SIM)	2.37	0.25		µg/L	2.500		94.9	40-140			
Fluorene (SIM)	2.27	0.25		µg/L	2.500		90.7	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	2.74	0.050		µg/L	2.500		110	40-140			
2-Methylnaphthalene (SIM)	2.34	0.25		µg/L	2.500		93.6	40-140			
Naphthalene (SIM)	2.25	0.25		µg/L	2.500		89.8	40-140			
Phenanthrene (SIM)	2.37	0.25		µg/L	2.500		94.8	40-140			
Pyrene (SIM)	2.28	0.25		µg/L	2.500		91.3	40-140			
Surrogate: Nitrobenzene-d5 (SIM)	5.61			µg/L	5.000		112	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	4.99			µg/L	5.000		99.8	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	4.62			µg/L	5.000		92.5	30-130			



## Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

## QUALITY CONTROL

## Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch B401928 - SW-846 3511

## LCS Dup (B401928-BSD1)

Prepared: 03/31/25 Analyzed: 04/06/25

Acenaphthene (SIM)	2.18	0.25		µg/L	2.500		87.1	40-140	1.23	20	
Acenaphthylene (SIM)	2.39	0.25		µg/L	2.500		95.5	40-140	0.810	20	
Anthracene (SIM)	2.43	0.25		µg/L	2.500		97.3	40-140	2.55	20	
Benzo(a)anthracene (SIM)	2.42	0.050		µg/L	2.500		96.7	40-140	1.20	20	
Benzo(a)pyrene (SIM)	2.49	0.050		µg/L	2.500		99.8	40-140	0.272	20	
Benzo(b)fluoranthene (SIM)	2.59	0.050		µg/L	2.500		104	40-140	0.665	20	
Benzo(g,h,i)perylene (SIM)	2.49	0.25		µg/L	2.500		99.7	40-140	1.29	20	
Benzo(k)fluoranthene (SIM)	2.76	0.050		µg/L	2.500		110	40-140	0.503	20	
Chrysene (SIM)	2.35	0.25		µg/L	2.500		93.9	40-140	0.0362	20	
Dibenz(a,h)anthracene (SIM)	2.72	0.050		µg/L	2.500		109	40-140	0.948	20	
Fluoranthene (SIM)	2.37	0.25		µg/L	2.500		94.9	40-140	0.0611	20	
Fluorene (SIM)	2.30	0.25		µg/L	2.500		92.1	40-140	1.50	20	
Indeno(1,2,3-cd)pyrene (SIM)	2.78	0.050		µg/L	2.500		111	40-140	1.32	20	
2-Methylnaphthalene (SIM)	2.19	0.25		µg/L	2.500		87.5	40-140	6.71	20	
Naphthalene (SIM)	2.11	0.25		µg/L	2.500		84.6	40-140	5.99	20	
Phenanthrene (SIM)	2.37	0.25		µg/L	2.500		94.8	40-140	0.0401	20	
Pyrene (SIM)	2.28	0.25		µg/L	2.500		91.3	40-140	0.0110	20	
Surrogate: Nitrobenzene-d5 (SIM)	5.25			µg/L	5.000		105	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	4.76			µg/L	5.000		95.2	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	4.31			µg/L	5.000		86.1	30-130			



## Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

## QUALITY CONTROL

## Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch B401684 - SW-846 3510C

## Blank (B401684-BLK1)

Prepared: 03/26/25 Analyzed: 03/27/25

CT ETPH	ND	0.20		mg/L							
Surrogate: 2-Fluorobiphenyl	0.0819			mg/L	0.1000		81.9	50-150			

## LCS (B401684-BS1)

Prepared: 03/26/25 Analyzed: 03/27/25

CT ETPH	0.758	0.20		mg/L	1.000		75.8	60-120			
Surrogate: 2-Fluorobiphenyl	0.0866			mg/L	0.1000		86.6	50-150			

## LCS Dup (B401684-BSD1)

Prepared: 03/26/25 Analyzed: 03/27/25

CT ETPH	0.771	0.20		mg/L	1.000		77.1	60-120	1.74	20	
Surrogate: 2-Fluorobiphenyl	0.0859			mg/L	0.1000		85.9	50-150			

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.



**CERTIFICATIONS****Certified Analyses included in this Report**

Analyte	Certifications
<b><i>CTDEP ETPH in Water</i></b>	
CT ETPH	CT
<b><i>SW-846 8270E in Water</i></b>	
Acenaphthene (SIM)	NH,NY,VA,NJ
Acenaphthylene (SIM)	NH,NY,VA,NJ
Anthracene (SIM)	NH,NY,VA,NJ
Benzo(a)anthracene (SIM)	NH,NY,VA,NJ
Benzo(a)pyrene (SIM)	NH,NY,VA,NJ
Benzo(b)fluoranthene (SIM)	NH,NY,VA,NJ
Benzo(g,h,i)perylene (SIM)	NH,NY,VA,NJ
Benzo(k)fluoranthene (SIM)	NH,NY,VA,NJ
Chrysene (SIM)	NH,NY,VA,NJ
Dibenz(a,h)anthracene (SIM)	NH,NY,VA,NJ
Fluoranthene (SIM)	NH,NY,VA,NJ
Fluorene (SIM)	NH,NY,VA,NJ
Indeno(1,2,3-cd)pyrene (SIM)	NH,NY,VA,NJ
Naphthalene (SIM)	NH,NY,VA,NJ
Phenanthrene (SIM)	NH,NY,VA,NJ
Pyrene (SIM)	NH,NY,VA,NJ

Pace Analytical Services, LLC - East Longmeadow, Ma, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2026
NY	New York State Department of Health	10899 NELAP	04/1/2026
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2026
NC	North Carolina Div. of Water Quality	652	12/31/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2025

Doc # 381 Rev 5\_07/13/2021

39 Spruce Street  
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

<http://www.pacelabs.com>Phone: 413-525-2332  
Fax: 413-525-6405

Access COC's and Support Requests

Company Name:

Address:

Phone:

Project Name:

Project Location:

Project Number:

Project Manager:

Pace Quote Name/Number:

Invoice Recipient:

Sampled By:

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

COMP GRAB

Matrix Code

Conc Code

VIALS

GLASS

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BACTERIA

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Requested Turnaround Time

7-Day

10-Day

PFAS 10-Day (std)

Due Date:

Rush-Approval Required

1-Day

3-Day

2-Day

4-Day

Field Filtered

Lab to Filter

Orthophosphate Samples

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Format: PDF

**Effective Date: 06/11/2024**


Login Sample Receipt Checklist – (Rejection Criteria Listing  
- Using Acceptance Policy) Any False statement will be  
brought to the attention of the Client – True or False

Short Hold: Yes No Notify \_\_\_\_\_

	True	False
Received on Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Received in Cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Custody Seal: DATE _____ TIME _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC/Samples Labels Agree	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Samples in Good Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples Received within Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there enough Volume	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper Media/Container Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Splitting Samples Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MS/MSD	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trip Blanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lab to Filters	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Included: (Check all included)		
Client <input checked="" type="checkbox"/>	Analysis <input checked="" type="checkbox"/>	Sampler Name <input checked="" type="checkbox"/>
Project <input checked="" type="checkbox"/>	IDs <input checked="" type="checkbox"/>	Collection Date/Time <input checked="" type="checkbox"/>
All Samples Proper pH:	N/A <input checked="" type="checkbox"/>	<input type="checkbox"/>

**\*Note: West Virginia requires all samples to have their temperature taken. Note any outliers.**

Sample	Soils Jars (Circle Amb/Clear)				Ambers				Plastics								VOA Vials					Other / Fill in							
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	100mL	1 Liter			500mL			250mL					Unpreserved	HCl	MeOH	D.I. Water	Bisulfate	Col/Bact
													Unpreserved	Sulfuric	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate						
1					2																								
2					2																								
3					2																								
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	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

C:\MSDChem\4\DATA\D032725\D25F086006.D

**CT ETPH Discrimination Check**

Data File Name D25F086006.D  
Data File Path C:\MSDChem\4\DATA\D032725\  
Operator PJG  
Date Acquired 3/27/1925 8:28  
Acq. Method File EPH12D.M  
Sample Name ETPH 1500  
Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	***D+/-20
C-9	1.73	7427888	8181711	9
C-10	2.35	7707740	8181711	6
C-12	3.29	7986811	8181711	2
C-14	4.01	8241479	8181711	-1
C-16	4.63	8365664	8181711	-2
C-18	5.20	8458978	8181711	-3
C-20	5.85	8558787	8181711	-5
C-22	6.63	8237861	8181711	-1
C-24	7.48	8225012	8181711	-1
C-26	8.29	8261320	8181711	-1
C-28	9.04	8233024	8181711	-1
C-30	9.73	8340491	8181711	-2
C-32	10.37	8175859	8181711	0
C-34	10.97	8271653	8181711	-1
C-36	11.54	8233096	8181711	-1

**Samples**

\*One compound allowed %D&lt;=50

25C1501-02  
25C1501-03  
25C1501-01



## ANALYTICAL REPORT

Lab Number:	L2518002
Client:	Pace New England 39 Spruce St. East Longmeadow, MA 01028
ATTN:	Margaret Peruccio
Phone:	(413) 525-2332
Project Name:	25C1501
Project Number:	25C1501
Report Date:	04/07/25

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

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

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)

**Project Name:** 25C1501  
**Project Number:** 25C1501

**Lab Number:** L2518002  
**Report Date:** 04/07/25

<b>Lab Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2518002-01	MW-2	WATER	Not Specified	03/24/25 09:30	03/26/25
L2518002-02	MW-4	WATER	Not Specified	03/24/25 11:25	03/26/25
L2518002-03	MW-2F10	WATER	Not Specified	03/24/25 11:09	03/26/25
L2518002-04	MW-4F10	WATER	Not Specified	03/24/25 11:53	03/26/25



**Project Name:** 25C1501  
**Project Number:** 25C1501

**Lab Number:** L2518002  
**Report Date:** 04/07/25

**CT DEEP Reasonable Confidence Protocols  
Laboratory Analysis  
QA/QC Certification Form**

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

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



**Project Name:** 25C1501  
**Project Number:** 25C1501

**Lab Number:** L2518002  
**Report Date:** 04/07/25

### Case Narrative

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

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

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

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

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

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

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**Project Name:** 25C1501**Lab Number:** L2518002**Project Number:** 25C1501**Report Date:** 04/07/25**Case Narrative (continued)**

RCP Related Narratives

Total Metals

In reference to question 6:

All submitted samples were not analyzed for the full RCP list of constituents identified in the method specific analyte list presented in the RCP documents.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

**Kelly O'Neill**

Title: Technical Director/Representative

Date: 04/07/25

QC OUTLIER SUMMARY REPORT

Project Name:    25C1501  
Project Number:  25C1501

Lab Number:        L2518002  
Report Date:        04/07/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
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There are no QC Outliers associated with this report.

## METALS

Project Name: 25C1501

Lab Number: L2518002

Project Number: 25C1501

Report Date: 04/07/25

## SAMPLE RESULTS

Lab ID: L2518002-01

Date Collected: 03/24/25 09:30

Client ID: MW-2

Date Received: 03/26/25

Sample Location: Not Specified

Field Prep: None

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
CT RCP Total Metals - Mansfield Lab											
Lead, Total	2.751		ug/l	1.000	--	1	04/07/25 08:44	04/07/25 14:48	EPA 3005A	79,6020B	BLR
Zinc, Total	519.8		ug/l	10.00	--	1	04/07/25 08:44	04/07/25 14:48	EPA 3005A	79,6020B	BLR



Project Name: 25C1501

Lab Number: L2518002

Project Number: 25C1501

Report Date: 04/07/25

## SAMPLE RESULTS

Lab ID: L2518002-02

Date Collected: 03/24/25 11:25

Client ID: MW-4

Date Received: 03/26/25

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
CT RCP Total Metals - Mansfield Lab											
Zinc, Total	814.1		ug/l	10.00	--	1	04/07/25 08:44	04/07/25 14:52	EPA 3005A	79,6020B	BLR



Project Name: 25C1501

Lab Number: L2518002

Project Number: 25C1501

Report Date: 04/07/25

**SAMPLE RESULTS**

Lab ID: L2518002-03

Date Collected: 03/24/25 11:09

Client ID: MW-2F10

Date Received: 03/26/25

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
CT RCP Total Metals - Mansfield Lab											
Lead, Total	1.028		ug/l	1.000	--	1	04/07/25 08:44	04/07/25 14:57	EPA 3005A	79,6020B	BLR
Zinc, Total	423.7		ug/l	10.00	--	1	04/07/25 08:44	04/07/25 14:57	EPA 3005A	79,6020B	BLR





Project Name: 25C1501

Lab Number: L2518002

Project Number: 25C1501

Report Date: 04/07/25

**SAMPLE RESULTS**

Lab ID: L2518002-04

Date Collected: 03/24/25 11:53

Client ID: MW-4F10

Date Received: 03/26/25

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
CT RCP Total Metals - Mansfield Lab											
Zinc, Total	739.8		ug/l	10.00	--	1	04/07/25 08:44	04/07/25 15:02	EPA 3005A	79,6020B	BLR



Project Name: 25C1501

Lab Number: L2518002

Project Number: 25C1501

Report Date: 04/07/25

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
CT RCP Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG2050290-1										
Lead, Total	ND		ug/l	1.000	--	1	04/07/25 08:44	04/07/25 13:44	79,6020B	BLR
Zinc, Total	ND		ug/l	10.00	--	1	04/07/25 08:44	04/07/25 13:44	79,6020B	BLR

### Prep Information

Digestion Method: EPA 3005A



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

Project Name: 25C1501

Project Number: 25C1501

Lab Number: L2518002

Report Date: 04/07/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
CT RCP Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG2050290-2 WG2050290-3								
Lead, Total	93		98		80-120	5		20
Zinc, Total	104		114		80-120	9		20

**Project Name:** 25C1501**Lab Number:** L2518002**Project Number:** 25C1501**Report Date:** 04/07/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information****Cooler**                      **Custody Seal**

A                                  Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2518002-01A	Plastic 250ml HNO3 preserved	A	<2	<2	18.0	Y	Absent		CT-ZN-6020T-PPB(180),CT-PB-6020T-PPB(180)
L2518002-02A	Plastic 250ml HNO3 preserved	A	<2	<2	18.0	Y	Absent		CT-ZN-6020T-PPB(180)
L2518002-03A	Plastic 250ml HNO3 preserved	A	<2	<2	18.0	Y	Absent		CT-ZN-6020T-PPB(180),CT-PB-6020T-PPB(180)
L2518002-04A	Plastic 250ml HNO3 preserved	A	<2	<2	18.0	Y	Absent		CT-ZN-6020T-PPB(180)

**Project Name:** 25C1501  
**Project Number:** 25C1501

**Lab Number:** L2518002  
**Report Date:** 04/07/25

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



**Project Name:** 25C1501  
**Project Number:** 25C1501

**Lab Number:** L2518002  
**Report Date:** 04/07/25

### Footnotes

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

### Terms

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

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

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

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

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

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

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

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

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

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

### Data Qualifiers

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

**Report Format:** Data Usability Report



**Project Name:** 25C1501  
**Project Number:** 25C1501

**Lab Number:** L2518002  
**Report Date:** 04/07/25

#### **Data Qualifiers**

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

**Project Name:** 25C1501**Lab Number:** L2518002**Project Number:** 25C1501**Report Date:** 04/07/25

## REFERENCES

- 79 Connecticut DEP Quality Assurance and Quality Control Requirements for SW-846 Methods. CTDEP Reasonable Confidence Protocols (RCPs). Versions 2.0, 3.0, and 4.0, July and December 2006, and May 2024.

## LIMITATION OF LIABILITIES

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

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





## Certification Information

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

**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

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

**EPA 625.1:** alpha-Terpineol

**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**

**SM 2540D:** TSS.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**MADEP-APH.**

**Nonpotable Water:** EPA RSK-175 Dissolved Gases

**Biological Tissue Matrix:** EPA 3050B

**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048**

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Nonpotable Water:** EPA RSK-175 Dissolved Gases

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

**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**

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

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

**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

**Drinking Water**

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

**Non-Potable Water**

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

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

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

**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**

**Drinking Water**

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

**EPA 522, EPA 537.1.**

**Non-Potable Water**

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1 Hg.**

**SM2340B**

**Certification IDs:**

**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

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

**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048**

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

**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048**

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

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

## SUBCONTRACT CHAIN OF CUSTODY

Pace New England

25C1501

SENDING LABORATORY:

Pace New England  
 39 Spruce Street  
 East Longmeadow, MA 01028  
 Phone: 413.525.2332  
 Fax: 413.525.6405  
 Project Manager: Margaret A. Peruccio

RECEIVING LABORATORY:

Pace Analytical Services - Westborough, MA  
 8 Walkup Drive  
 Westborough, MA 01581  
 Phone : (508) 898-9220  
 Fax: (508) 898-9193

Project Location: Delaware

Analysis	Sample Name	Due	Expires	Comments
<b>Sample ID: 25C1501-01</b>	MW-2	<b>Water</b>	<b>Sampled: 03/24/25 09:30</b>	<b>CT RCP, SWPC</b>
S-Zinc 6020 Total		04/08/25 14:00	09/20/25 09:30	
S-Lead 6020 Total		04/08/25 14:00	09/20/25 09:30	
Metals Digestion		04/08/25 14:00	04/07/25 09:30	
<i>Containers Supplied:</i>				
250 mL plastic + HNO3 (C)				
<b>Sample ID: 25C1501-03</b>	MW-4	<b>Water</b>	<b>Sampled: 03/24/25 11:25</b>	<b>CT RCP, SWPC</b>
S-Zinc 6020 Total		04/08/25 14:00	09/20/25 11:25	
Metals Digestion		04/08/25 14:00	04/07/25 11:25	
<i>Containers Supplied:</i>				
250 mL plastic + HNO3 (C)				
<b>Sample ID: 25C1501-04</b>	MW-2F10	<b>Water</b>	<b>Sampled: 03/24/25 11:09</b>	<b>CT RCP, SWPC</b>
S-Zinc 6020 Total		04/08/25 14:00	09/20/25 11:09	
S-Lead 6020 Total		04/08/25 14:00	09/20/25 11:09	
Metals Digestion		04/08/25 14:00	04/07/25 11:09	
<i>Containers Supplied:</i>				
250 mL plastic + HNO3 (A)				
<b>Sample ID: 25C1501-05</b>	MW-4F10	<b>Water</b>	<b>Sampled: 03/24/25 11:53</b>	<b>CT RCP, SWPC</b>
S-Zinc 6020 Total		04/08/25 14:00	09/20/25 11:53	
Metals Digestion		04/08/25 14:00	04/07/25 11:53	
<i>Containers Supplied:</i>				
250 mL plastic + HNO3 (A)				

Released By	Date	Received By	Date
Released By	Date	Received By	Date

## SUBCONTRACT CHAIN OF CUSTODY

Pace New England

25C1501

L2518002  
CONTEST - METALSSENDING LABORATORY:

Pace New England  
39 Spruce Street  
East Longmeadow, MA 01028  
Phone: 413.525.2337  
Fax: 413.525.6405  
Project Manager: Margaret A. Peruccio

RECEIVING LABORATOR

Pace Analytical Services - Westborough, MA  
8 Walkup Drive  
Westborough, MA 01581  
Phone: (508) 898-9220  
Fax: (508) 898-9193

Project Location: Connecticut

Analysis	Sample Name	Due	Expires	Comments
<b>Sample ID: 25C1501-01</b>	MW-2			
18002 S-Zinc 200.7 Total		Water	Sampled: 03/24/25 09:30	CT RCP, SWPC
-1 S-Lead 200.7 Total		04/08/25 14:00	09/20/25 09:30	
Metals Digestion		04/08/25 14:00	09/20/25 09:30	
Containers Supplied:		04/08/25 14:00	04/07/25 09:30	
250 mL plastic + HNO3 (C				
<b>Sample ID: 25C1501-03</b>	MW-4			
-2 S-Zinc 200.7 Total		Water	Sampled: 03/24/25 11:25	CT RCP, SWPC
Metals Digestion		04/08/25 14:00	09/20/25 11:25	
Containers Supplied:		04/08/25 14:00	04/07/25 11:25	
250 mL plastic + HNO3 (C				
<b>Sample ID: 25C1501-04</b>	MW-2F10			
-3 S-Zinc 200.7 Total		Water	Sampled: 03/24/25 11:09	CT RCP, SWPC
Metals Digestion		04/08/25 14:00	09/20/25 11:09	
S-Lead 200.7 Total		04/08/25 14:00	04/07/25 11:09	
Containers Supplied:		04/08/25 14:00	09/20/25 11:09	
250 mL plastic + HNO3 (C				
<b>Sample ID: 25C1501-05</b>	MW-4F10			
4 S-Zinc 200.7 Total		Water	Sampled: 03/24/25 11:53	CT RCP, SWPC
Metals Digestion		04/08/25 14:00	09/20/25 11:53	
Containers Supplied:		04/08/25 14:00	04/07/25 11:53	
250 mL plastic + HNO3 (C				

Released By: Date: 3-26-25 1800  
Received By: Date: 3-26-25 1600  
Released By: Date: 3-26-25 1800  
Received By: Date: 3/26/25 1800

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## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Pace New England

**Client:** HRP Associates, Inc. (Private)

**Project Location:** 14 Bridge St., Montville, CT

**Project Number:** 25C1501

**Laboratory Sample ID(s):**  
25C1501-01 thru 25C1501-03

**Sample Date(s):**  
03/24/2025

**List RCP Methods Used:**

CTDEP ETPH, SW-846 8270E

<b>1</b>	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1A</b>	Were the method-specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1B</b>	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see respective RCPs)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<b>2</b>	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>3</b>	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>4</b>	Were all QA/QC performance criteria specified in the CTDEEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5</b>	Were reporting limits / limits of quantitation specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5A</b>	Were these reporting limits / limits of quantitation met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>6</b>	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>7</b>	Are project-specific matrix spikes and laboratory duplicates included in this data set for applicable RCPs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

This form may not be altered and all questions must be answered.

Lisa A. Worthington

**I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.**

**Authorized Signature:**
**Position:** Technical Representative
**Printed Name:** Lisa A. Worthington
**Date:** 04/08/25
**Name of Laboratory:** Pace New England

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

# ATTACHMENT 2

## Monitoring Well Data Sheets



**(860) 674-9570**

Page 1 of 1

Well ID: MW-1

**Team Personnel:**

LN

Type & No.	Volume	Preservative



**(860) 674-9570**

## Well ID: MW-2

Page 1 of 1

Team Personnel: 166

## DTB - after sampling = 11M

Type & No.	Volume	Preservative
2 ambers	2 x 1L	As Is
2 amber vials	2 x 40mL	As Is



**HRP Associates, Inc.**

197 Scott Swamp Rd.

Farmington, CT 06032

(860) 674-9570

**Monitor Well Data Sheet**

 Page 1 of 2

 Well ID: **MW-3**
**Site Background Information**

Site Location:	14 Bridge St - Montville, CT	Sampling Dates:	3/24/21
Job Number:	MON3009.GW	Field Team Leader:	
Weather:	RAIN 39°F	Team Personnel:	KG

**Ground Water Elevation Data**

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)	Depth to Bottom (ft)
3/24/21	10:29	KG	Solinst-101	uncorrected	uncorrected
			corr. factor 0	corrected 2.12	corrected 8.76

Measurement Point: 2" pvc HW

DTB - after sampling = 8.71

**Well Condition (circle one)**

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
Good	Yes	Yes	Good	No
Concrete Collar	Ponded Water	Comments: 7.5' screen Unable to maintain 0.3' drawdown criteria		
Good	No			

**Well Purging Data**

Date	Time						Sampler Initials	Instrument Calibration Date
	Equipment Set-up		Purging		Sample Collection			
	Start	Finish	Start	Finish	Start	Finish		
3/24/21	11:59	12:03	12:03	1:08	1:08	1:31	KEG	3/24/21

**Instrument Mfg & Model**

pH	YSI 600XL-M / YSI 556 - Serial # 21K100017
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	

Initial Water Depth (ft): 1.98			Time: 11:59					
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
12:07	2.21	100	6.89	5.4	523.0	-149.7	3.71	6.41
12:12	2.54		6.89	5.4	528.9	-169.7	0.38	3.54
12:17	2.78		6.91	5.3	526.5	-172.3	0.35	5.20
12:22	2.96		6.90	5.4	508.5	-159.1	0.52	12.18
12:27	3.06		6.90	5.4	502.1	-146.1	0.66	15.17
12:32	3.11		6.91	5.4	505.7	-147.2	0.54	12.85
12:37	3.13		6.91	5.5	506.7	-149.2	0.44	8.72
12:42	3.16		6.92	5.5	507.4	-151.3	0.39	7.22
12:47	3.18		6.92	5.5	506.5	-152.1	0.37	6.37
Req. Limits for Last 3 Readings			+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5

Pump Mfg & Model	Color	Odor	Purge Vol (ml)	Sample Depth (ft.)
Peristaltic	clear	u.s. screen petro	6500	5.45

**Sample Containers**

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
2 ambers	2 x 1L	As Is	1 plastic	250mL	HNO <sub>3</sub>
2 amber vials	2 x 40mL	As Is	1 plastic	250mL	Filter (10 micron) + HNO <sub>3</sub>







**HRP Associates, Inc.**

197 Scott Swamp Rd.

Farmington, CT 06032

(860) 674-9570

**Monitor Well Data Sheet**

 Page 1 of 2

 Well ID: **MW-4**
**Site Background Information**

Site Location:	14 Bridge St - Montville, CT	Sampling Dates:	3/24/25
Job Number:	MON3009.GW	Field Team Leader:	
Weather:	Rain 35°F	Team Personnel:	KG

**Ground Water Elevation Data**

Date	Time	Sampler Name	Equipment Model	Depth to Water (ft)	Depth to Bottom (ft)
3/24/25	9:46	KG	Solinst-101	uncorrected	uncorrected
			corr. factor 0	corrected 2.90	corrected 9.67

Measurement Point: 2" pvc H/W

DTB - after sampling = 9.67

**Well Condition (circle one)**

General Condition	Visible Well ID	Well Cap Present	Well Plumbness	Lock
Good	Yes	Yes	Good	No

Concrete Collar	Ponded Water	Comments:
Good	No	8' screen Unable to maintain 0.3' drawdown criteria

**Well Purging Data**

Date	Time						Sampler Initials	Instrument Calibration Date
	Equipment Set-up		Purging		Sample Collection			
3/24/25	Start 9:46	Finish 9:51	Start 9:51	Finish 11:25	Start 11:25	Finish 11:53	KG	3/24/25

**Instrument Mfg & Model**

pH	YSI 600XL-M / YSI (556) Serial # 211400077
Temp.	
Sp. Cond.	
ORP	
DO	
Turbidity	HF Scientific DRT-15CE - Serial # HRA-1

Initial Water Depth (ft): 2.90			Time: 9:46					
Time	Water Depth (ft)	Flow Rate (ml/min)	pH (s.u.)	Temp (°C)	Sp Con (uS)	ORP (mV)	DO (mg/l)	Turbidity (ntu)
9:54	3.11	90	6.49	6.6	431.1	21.0	2.81	17.91
9:59	3.09		6.39	6.4	402.1	15.1	0.66	19.63
10:04	3.13		6.36	6.4	388.9	16.0	0.96	17.61
10:09	3.16		6.36	6.4	328.6	17.7	1.47	48.7
10:14	3.22		6.33	6.7	209.5	32.1	4.82	76.7
10:19	3.33		6.35	6.8	150.2	34.8	5.39	70.2
10:24	3.31		6.38	6.6	118.6	37.8	5.88	55.4
10:29	3.21		6.38	6.5	135.5	42.7	5.54	48.6
10:34	3.22		6.47	6.6	95.6	42.4	6.58	53.9
Req. Limits for Last 3 Readings			+/- 0.1	3%	3%	+/- 10 mv	10% > 0.5	10% > 5

Pump Mfg & Model	Color clarity	Odor	Purge Vol (ml)	Sample Depth (ft.)
Peristaltic	clear	—	8460	6.28

**Sample Containers**

Type & No.	Volume	Preservative	Type & No.	Volume	Preservative
2 ambers	2 x 1L	As Is	1 plastic	250mL	HNO <sub>3</sub>
			1 plastic	250mL	Filt (10 micron) + HNO <sub>3</sub>



**(860) 674-9570**

Page 2 of 2

MW-4

Rain 38CF

Team Personnel: KQ

[illegible]