

## **IMMEDIATE RESPONSE ACTION 120 DAY STATUS REPORT**

**New Hardy School  
Diesel Release  
293 Weston Road @ 818 Worcester Road  
Wellesley, Massachusetts 02482**

**DEP Release Tracking Number: 3-50297**

**CHES Job No: 2403152545**

Prepared for: Wayne J. Griffin Electric, Inc.  
116 Hopping Brook Road  
Holliston, Massachusetts 01746

Prepared by:  
Clean Harbors Environmental Services®  
42 Longwater Drive  
Norwell, Massachusetts 02061

April 2, 2024



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Daniel Taylor, L.S.P.  
Project Manager

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### 1.0 Introduction

On June 07, 2024 a release of an estimated 775 gallons of diesel fuel was reported to the Massachusetts Department of Environmental Protection. The fuel release was from a recently installed generator installed at the new Hardy School which is under construction located at 293 Weston Road in Wellesley, Massachusetts (see Site Locus **Figure 1**). The generator was located on the western side of the property on a concrete pad and the pad was constructed on a gravel base. The release was to the gravel. The property is owned by the Town of Wellesley. The source of the release is reported to be associated with a faulty fitting on the generator. A site sketch is included as **Figure 2**.

The tank was reportedly filled with 800 gallons of fuel on May 9, 2024. In addition to the MassDEP, the incident was reported to the Wellesley Fire Department (WFD) and the Massachusetts Department of Environmental Protection (MassDEP). The MassDEP release tracking number is 3-0050297.

In response to the release, Griffin Electric, Inc. (Griffin) contracted Clean Harbors Environmental Services, Inc. (CHES) to conduct an Immediate Response Action (IRA) to address the release. To date and as further described herein, the IRA included the multiple responses that are outlined in **Table 1**, the Timeline of Events.

An IRA Plan was submitted to the MassDEP on July 5, 2024 outlining ongoing and proposed response actions. Based on the results of the IRA activities completed to date, CHES has prepared this 120 Day Immediate Response Action Status Report (IRAS) to document the IRA and the resulting site conditions and to plan for future response actions. Copies of the IRA transmittal form

(BWSC 105), to be submitted electronically, is presented as **Appendix A**. An Agent for Letter for e-DEP submissions is also included in **Appendix A**.

## **2.0 Contact Information of Person Performing the IRA**

The contact person and contact information for the entity performing the IRA is listed below:

Mr. Joe Clougherty  
Risk Manager  
Griffin Electric, Inc.  
116 Hopping Brook Road, Holliston, Massachusetts 01746  
Telephone: (508) 429-8830

The contact information for the CHES Licensed Site Professional supervising the IRA is listed below:

Mr. Daniel Taylor, LSP 5473  
Clean Harbors Environmental Services, Inc.  
42 Longwater Drive, Norwell, MA 02061, Telephone 1-781-561- 5134

## **3.0 Site Setting**

The Site is a school that was under construction at 293 Weston Road in Wellesley, Massachusetts. The former Hardy School , also formerly located at 293 Weston Road which was adjacent to the new school underwent demolition. It should be noted that the construction site entrance was at 818 Worcester Road (Route 9) in Wellesley, Massachusetts. Land use adjacent to the school is mostly residential properties with some limited commercial properties to the northwest along Worcester Road (Route 9). No catch basins, surface waters or surface features were impacted by the release. The release was to a three-quarter inch stone that was placed prior to construction of the concrete generator pad. Soils beneath the stone are fine to coarse sand.

Site topography slopes to the south and west. The nearest surface water body is the Morses Pond, which is 1800 feet to the southwest. Information reviewed from the Wellesley Department of Public Works indicates the Site and surrounding properties are served by municipal water.

According to the MassDEP Phase I Site Assessment Map that depicts nearby environmental resources (see **Figure 3**), the property is located in a Zone II water supply area. A public water supply well is located approximately 2800 feet southwest of the release area. The nearest environmental receptors is a mapped vernal pool located approximately 1700 feet southeast of the site near the intersection of Bradley Avenue and Weston Road. Based upon the World Geodetic System of 1984, the property latitude and longitude coordinates are:

Latitude: 42° 18'16" N  
Longitude: 71° 18' 35" E

Based upon the North American Datum of 1983, the property Universal Transverse Mercator coordinates are:

Zone: 19  
Northing: 4,686,164  
Easting: 309,624

#### 4.0 Immediate Response Actions

The initial response actions were described in the IRA Plan submitted July 5, 2024. A site sketch depicting site features is included as **Figure 2**. As indicated in the plan, CHES Field service representatives responded to the release on June 7, 2024. A CHES LSP also responded to examine the spill area. Release notification to MassDEP and the local Fire Department was completed and representatives from these agencies visited the site. A meeting with the regulators, CHES and the customer and construction contractor (Shawmut Construction) took place to review site conditions, site features and planned response actions. Information obtained indicated that the fuel entered the subsurface from the valve that sat above a void in the concrete pad. The void allowed the oil to impact the subsurface gravel placed during the 1st stage of concrete pad construction. Utilities proximate to the pad were to the east and included subsurface electrical conduit and a storm drain line. These features were approximately 2 to 3 feet and five feet below grade. A infiltration structure was situated east of these features which is designed to accept roof drainage from precipitation events. The bottom of the infiltration structure is approximately 7 feet below grade level.

During the initial response, field screening was completed of the stained gravel with a PID and a detection of 30 ppm was noted. Screening of the drain line catch basin to the north and Town storm drainage along Hardy Street with the PID revealed no detections. In addition, the infiltration structure was designed with an overflow that was accessed via a manhole. The overflow discharges to the Town stormwater system along Hardy Street. Screening of this structure was 1.1 ppm . No sheen or evidence of product was noted on a small puddle of water in the bottom of this structure. The infiltration system contains an infiltration bypass then when activated directs roof drainage to the local storm sewer bypassing the infiltration structure. Shawmut reported that the bypass was being utilized, thus the infiltration system was not in use after the release. The infiltration system was in use up until the discovery of the release on June 7.

During the initial response, a plan for a response action was discussed and ultimately implemented including subsurface assessment, impacted soil excavation necessitating generator and pad removal, boom placement at Morses pond with The Hardy Street storm drains discharge and product recovery from the subsurface ( where feasible). Response actions completed to date are summarized in **Table 1**. As indicated in the IRA Plan submitted to the MassDEP initial response actions included installation of monitoring wells) MW-1 through MW-14 were installed in June 2024, product recovery including enhanced fluid recovery using a vacuum truck, screening of utilities for TVOCs, generator removal and associated concrete pad removal. Boom placement was also completed at Morses as a precautionary measure. Response actions that occurred after the July IRAP report up through early October were presented in the October 2024 IRA Status Report. This report discusses the response actions and data collected from mid-October through March of 2025.

#### **4.1 LNAPL/GW Gauging**

CHES personnel continued to conduct weekly gauging of wells for light, non-aqueous petroleum layer (LNAPL) thickness on top of the groundwater and groundwater elevation data throughout October. The data, including the recovery and replacement of sorbent filter socks that were placed in the wells, demonstrated a substantial decline in the volume of LNAPL at the site. Based on this observation, gauging events were reduced to every two weeks in November followed by monthly gauging events in December, January and February. This information has been summarized in **Table 2**. With no measurable LNAPL present in the January and February monitoring events, the decision was made to discontinue the periodic gauging until April. Filter socks were left in wells that had a history of LNAPL presence, and those socks will be recovered at the end of April.

#### **4.2 Quarterly Groundwater Sampling**

Quarterly Groundwater Monitoring events were conducted on December 2, 2024 and again on February 18, 2025. During each event, the field personnel measured the static depth to groundwater before purging the wells of a minimum of three well volumes. In addition, CHES personnel conducted low-flow groundwater purging and sampling of 3 monitoring wells during these events to monitor field specific data of parameters that provide information on the natural attenuation and biodegradation of the petroleum. There is an abundance of literature that demonstrates that dissolved petroleum releases are acted upon by bacteria that are naturally occurring in the environment. When there are naturally occurring bacteria present in the aquifer that are actively degrading/consuming the petroleum, the geochemistry of the groundwater is slightly altered by the activity. Using low-flow sample techniques and monitoring for data such as dissolved oxygen (DO) levels and the oxidation/reduction potential (ORP), it is possible to identify zones of activity where aerobic activity is occurring.

The field parameters measured on December 2, 2024 indicated that groundwater in the vicinity of monitoring wells MW-15 and MW-25 had an abundance of DO available (greater than 4 mg/L and 8 mg/L respectively) in areas where no dissolved petroleum was found in the laboratory samples. Additionally, these two wells were observed to have ORP values greater than 120 mV which also indicates an area with little to no petroleum present for aerobic bacteria to consume. However, the data collected from well MW-17 which was reported to have minimal concentrations of dissolved petroleum compounds present, the DO values were lower in the range of 1 to 1.5 mg/L. This is evidence that the aerobic bacterial present near well MW-17 were using available oxygen during the degradation of the minor amount of dissolved petroleum in that area.

When the field measurements were repeated in wells MW-16, MW-17 and well MW-25 on February 18, 2025 it was found that the DO levels in well MW-17 had lowered even more to around 1.07 mg/L and the ORP values had dropped from positive values to -36.5. This data correlated with the slight increase in dissolved petroleum compounds reported as detected in the sample submitted for laboratory analysis. Data from wells MW-16 and MW-25 demonstrate that the aquifer around the dissolved plume continues to have an abundance of available DO and elevated ORP readings typical of water with no dissolved petroleum contamination.

#### **4.2 Evaluation of Aquifer Parameters**

CHES personnel initially observed sand and gravel material in the release area at the start of the IRA activities and planned accordingly for moderately high dewatering flow rates during the excavation of impacted soil. However, once the excavation attained the depth of the groundwater, the flow rates were lower than anticipated on a daily basis to keep the groundwater out of the excavation area. Based on this, additional investigations into the nature of the aquifer were conducted to better refine the Conceptual Site Model.

#### **4.2.1 Grain Size Analysis**

During advancement of soil borings in August 2024, samples of soil collected from B-15/MW-15, B-16/MW-16, B-17/MW-17, B-18/MW-18 and B-20/MW-20 were submitted for analysis of grain size. This analysis reported that the soil from B-15/MW-15 and B-16/MW-16 contained 89% and 71% respectively of material in the “fines” category passing through the 200 sieve. The other three soil samples had 7%, 5% and 3% fines respectively. The higher percentage of fine grain material in the first two soil borings are indicative of an aquifer that would have relatively low hydraulic conductivity and lower groundwater velocity in comparison to the three samples with larger grain soil.

During the drilling on September 27, 2024 some additional soil samples were collected for grain size analysis when advancing borings B-24/MW-24, B-25/MW-25 and B-26/MW-26. The soil samples from these borings showed similar grain size distribution as B-17/MW-17, B-18/MW-18 and B-20/MW-20 with larger material and a smaller percentage of fines present. The results of laboratory testing for grain size analysis have been summarized in **Table 3**.

#### **4.2.2 Groundwater Elevation and Gradient**

Another line of evidence relative to the hydraulic conductivity of an aquifer can be associated with the gradient of the groundwater at a disposal site. A generalized evaluation of the gradient will typically show a steeper gradient (i.e. larger change in elevation over a set distance) in aquifers with lower hydraulic conductivity. Whereas an aquifer with higher hydraulic conductivity typically exhibits a lower gradient because the water can move through the material with less resistance. The groundwater elevation data for this site correlates with this observed change in hydraulic conductivity. The gradient is relatively steep in the portion of the disposal site that has finer grained soil and a lower hydraulic conductivity. When the groundwater reaches the portion of the aquifer with coarse grained soil, the gradient becomes nearly flat. The groundwater elevation data from the December 2024 gauging event are provided on **Figure 2**.

#### **4.2.3 Low Flow Drawdown Analysis of Hydraulic Conductivity**

During the February 2025 groundwater sampling event, CHES field inspectors conducted low flow groundwater sampling in monitoring wells MW-16, MW-17 and MW-25. One of the objectives of the low flow analysis was to try and obtain stabilized drawdown data at three different pumping flow rates on each of the wells. This mini step drawdown test was a tool for aquifer testing that was proposed by Garry Robbins at the University of Connecticut at Storrs and Rams Horn Educational as part of the rapid site characterization methods. The collection of stabilized drawdown data at varying flow rates allows for analysis of the data in a simple spreadsheet solution that relies on existing aquifer models (i.e. Hvorslev, etc.). The analysis of drawdown data found

that the hydraulic conductivity for the aquifer near well MW-16 was in the range of  $2 \times 10^{-4}$  cm/sec while the hydraulic conductivity in the aquifer near well MW-17 and MW-25 were in the range of  $4 \times 10^{-2}$  cm/sec and  $8 \times 10^{-2}$  cm/sec which confirmed the previous observations of grain size and groundwater gradient lines of evidence. Copies of the aquifer analysis solutions are included in **Appendix B**.

#### **4.3 Analysis of Groundwater for Petroleum Hydrocarbons**

Groundwater sampling conducted in December 2024 and February 2025 for analysis of volatile petroleum hydrocarbons and extractable petroleum hydrocarbons consistent with past quarterly sampling events. The results of this testing are summarized in **Table 3** attached to this report and the laboratory analytical reports are provided in **Appendix C**.

The overall trend of the quarterly groundwater monitoring demonstrates that the dissolved petroleum plume is contained to an area northwest of the limits of excavation conducted last summer. The dissolved plume is surrounded by wells that were reported to have no dissolved contaminants present, and the plume is exhibiting characteristics of a stable plume or diminishing plume at this point.

#### **4.4 Assessment for Condition of Substantial Release Migration (310 CMR 40.0006)**

As part of all IRAs, an assessment must be completed to determine whether a Substantial Release Migration, Critical Exposure Pathway, or Imminent Hazard is present.

A Substantial Release Migration (SRM) means any of the following conditions:

- releases that have resulted in the discharge of separate-phase oil and/or separate-phase hazardous material to surface waters, subsurface structures, or underground utilities or conduits;
- releases to the ground surface or to the vadose zone that, if not promptly removed or contained, are likely to significantly impact the underlying groundwater, or significantly exacerbate an existing condition of groundwater pollution;
- releases to the groundwater that have migrated or are expected to migrate more than 200 feet per year;
- releases to the groundwater that have been or are within one year likely to be detected in a public or private water supply well;
- releases to the groundwater that have been or are within one year likely to be detected in a surface water body, wetland, or public water supply reservoir;
- or releases to the groundwater or to the vadose zone that have resulted or are within one year likely to result in the discharge of vapors into school buildings or occupied residential dwellings.

The diesel fuel that was released has impacted the groundwater beneath the property. This area is in a Zone II. Based upon the initial observations of soil during the test pits and excavation of soil in the summer of 2024, the potential for an SRM condition existed for groundwater to be migrating more than 200 feet per year. However the dewatering flow rates and grain size samples

demonstrated a lower permeability aquifer than initially anticipated. The multiple lines of evidence below document that there is no condition of Substantial Release Migration:

- Hydraulic conductivity of  $2 \times 10^{-4}$  cm/sec (0.5667 ft/day) in the aquifer materials at the original release area
- Groundwater gradient of .0004 ft/ft in the vicinity of well MW-20 to MW-12.
- With an assumed effective porosity of 0.3, the groundwater velocity is 0.0008 ft/day or less than 0.3 ft/year
- Evidence of a stable or diminishing dissolved plume based on quarterly groundwater sampling
- Field parameters of ORP and DO that provide additional lines of evidence on the area of the dissolved plume and the active aerobic activity that is limiting the extent of the plume
- Reduction in the distribution and amount of LNAPL observations over time

#### **4.5 Assessment for Critical Exposure Pathway (310 CMR 40.0006)**

A Critical Exposure Pathway (CEP) means a route by which oil and/or hazardous material(s) released at a disposal site are transported, or are likely to be transported, to human receptors via:

- vapor-phase emissions of measurable concentrations of oil and/or hazardous materials into the living or working space of a pre-school, daycare, school or occupied residential dwelling; or
- ingestion, dermal absorption, or inhalation of measurable concentrations of oil and/or hazardous materials from drinking water supply wells located at and servicing a pre-school, daycare, school or occupied residential dwelling.

The new building is being used as the Hardy School which was occupied by students at the beginning of the school year in August 2024. The structure is of slab on grade construction. school. MW-7 was placed proximate to the structure and no evidence of subsurface impacts were noted in this area. Groundwater elevation data collected during this period have demonstrated that the groundwater elevation near the school is consistently higher than all the other monitoring wells and groundwater flow is away from the structure. Additional research into the construction of the school has confirmed that a perimeter drain was established around the foundation and this feature is likely intercepting groundwater from the northeast side of the building and redirecting this water to the lower area near MW-7. Currently, the groundwater has been dropping to a point that is approximately 2.5 feet lower in elevation from where it was in June and July.

The newly constructed Hardy School has begun operation and is occupied with students and faculty during the school year. There is a playground area to the south of the release area, and access to the construction area is restricted by fence that is locked.

#### **4.6 Assessment for Imminent Hazards (310 CMR 40.0321)**

Under section 40.0321 of the Massachusetts Contingency Plan (MCP), MassDEP lists certain criteria that would constitute an Imminent Hazard.

An Imminent Hazard would be:

- a release to the environment which, results in the presence of oil and/or hazardous material vapors within buildings, structures, or underground utility conduits at a concentration equal to or greater than 10% of the Lower Explosive Limit; this condition is believed to be absent.
- a release to the environment of reactive or explosive hazardous material, as described in 310 CMR 40.0347, which threatens human health or safety; is believed to be absent.
- a release to a roadway that endangers public safety; this condition is absent.
- a release to the environment of oil and/or hazardous material which poses a significant risk to human health when present for even a short period of time, as specified in 310 CMR 40.0950; this condition is believed to be absent.
- a release to the environment which produces readily apparent effects to human health, including respiratory distress or dermal irritation; this condition is believed to be absent.
- a release to the environment of oil and/or hazardous material which produces immediate or acute adverse impacts to freshwater or saltwater fish populations; this condition is believed to be absent.

Based upon the data received, an imminent hazard is not currently present and further response actions are planned to mitigate site conditions.

#### **4.7 LNAPL Conceptual Site Model**

The LNAPL Conceptual Site Model (CSM) is currently described as follows:

The source of the LNAPL was a sudden release of approximately 775 gallons of diesel that had been placed in a newly installed generator as part of a new school construction project. The source of the release was a defective component of the generator that allowed the contents of the tank to drain by gravity under the generator. While the generator was set on a concrete pad for stability, there was an opening in the concrete pad beneath the generator for the conduits that supplied the electricity to the building. Those conduits were placed in a porous stone backfill material that allowed the diesel to migrate easily through the stone into the subsurface where the relatively porous near surface soils allowed for rapid vertical migration to the water table at a depth of approximately 10 to 11 feet below the surface. Upon excavation of the soils above the water table, an LNAPL layer was visible at the air/water interface beneath the generator. Initial subsurface borings and monitoring wells established near the release documented a layer of LNAPL extending west and northwest of the release. Excavation of the impacted soil into the top two feet of the affected aquifer during initial Immediate Response Action activities mitigated a large amount of the contaminant mass within the first two months post release. Subsequent monitoring for LNAPL in the monitoring well network was accompanied by additional LNAPL recovery efforts including vacuum removal, bailing and sorbent sock removal. Investigatory data indicates that there are two distinct aquifer areas within the disposal site boundary; one area closest to the release consists of predominantly silts and clays with relatively low hydraulic conductivity in the  $10^{-4}$  cm/sec range that transitions to an area of larger grain size with hydraulic conductivity in the  $10^{-2}$  cm/sec range. Manual removal of the LNAPL from monitoring wells dramatically reduced residual LNAPL to the point where little to no recoverable LNAPL was present by November of 2024. Measurement of dissolved phase hydrocarbons using laboratory analysis of groundwater samples, combined with field measurements of natural attenuation parameters demonstrates that aerobic degradation of the

dissolved plume is occurring, with an abundance of dissolved oxygen available around the perimeter of the plume and evidence of the consumption of that oxygen for use as an electron donor during aerobic respiration within the dissolved plume. Quarterly monitoring of the groundwater quality over three seasons exhibits evidence of a stable and diminishing plume in most wells.

## **5.0 IRA Plan and Schedule**

CHES will continue to evaluate the extent of the release through periodic monitoring of the wells for LNAPL and placement of sorbent socks will continue through April 2025. Quarterly sampling of groundwater quality will be conducted again during the school vacation week of April 21-25 when the school is not occupied.

## **6.0 Remediation Waste**

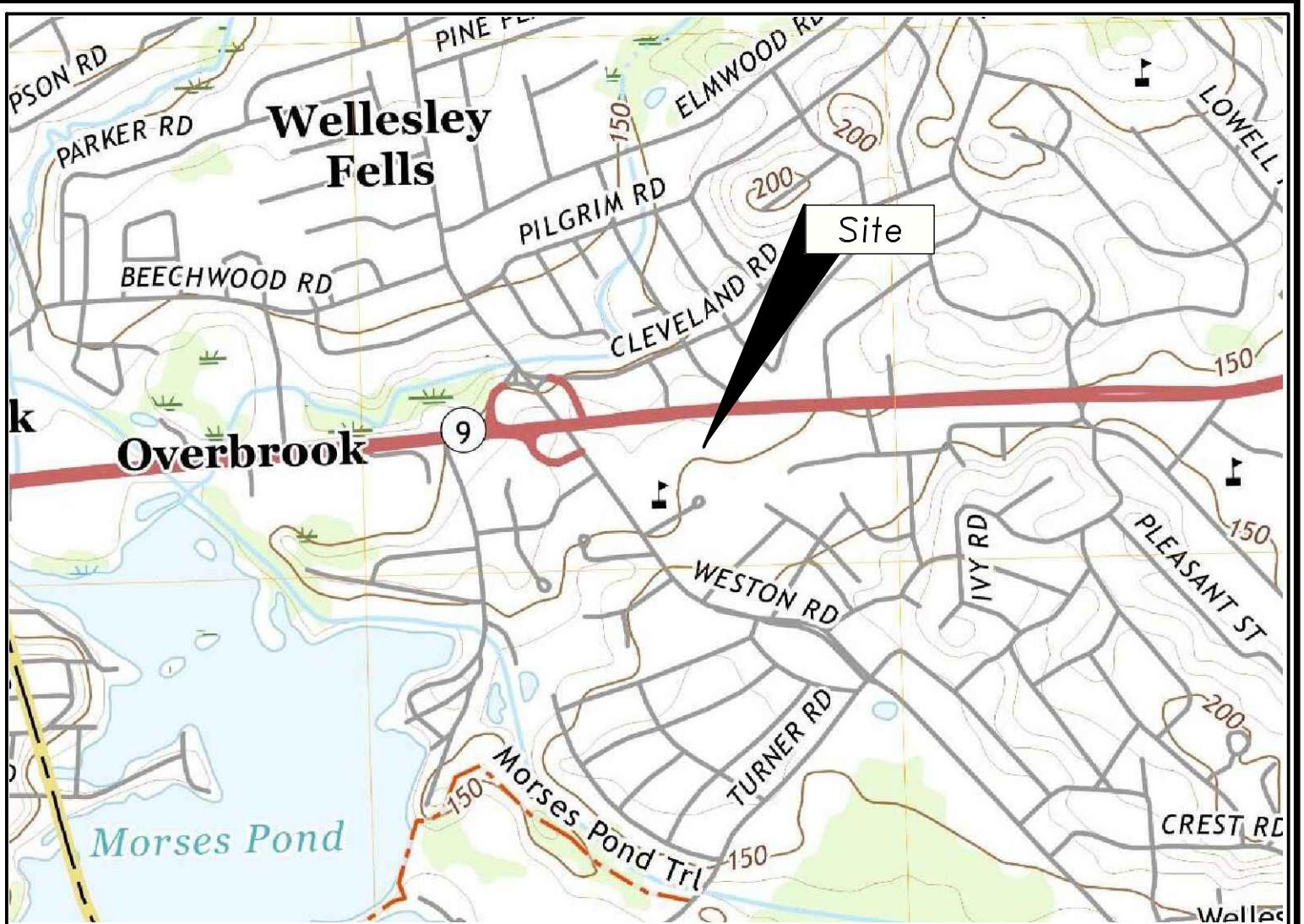
One drum of sorbent socks and recovered LNAPL was removed from the site on December 30, 2024 by Cyn Environmental Services under a Massachusetts Bill of Lading BWSC-112.

## **7.0 Notifications**

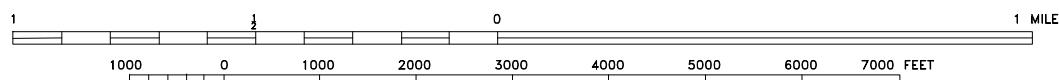
Notice of the response actions and the Release Notification Form (BWSC103) has been forwarded to the Wellesley Chief Municipal Officer and Board of Health. Copies of the notification letters are presented in **Appendix D**. A notice to the property owner advising of the Notice of Environmental Sampling (BWSC-123) has been completed and copies are appended. In addition, teleconferences with CHES, our customer, the contractor and town representatives occur on a periodic basis.

## FIGURES





SCALE 1:24,000



Quadrangle Location

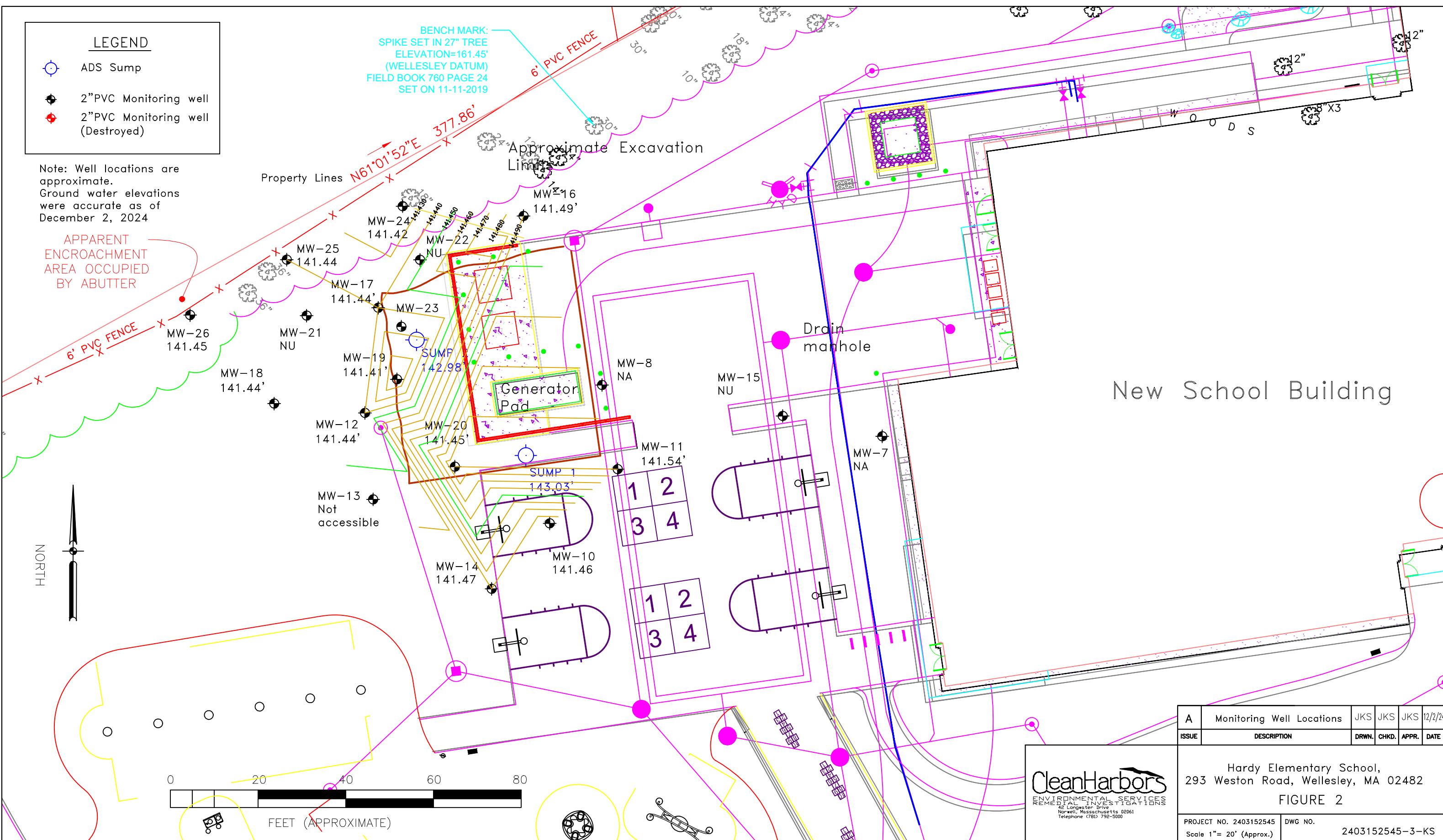
N

CONTOUR INTERVAL 3 METERS  
ELEVATION REFERENCE IS NATIONAL VERTICAL DATUM OF 1984  
COORDINATE REFERENCE IS NORTH AMERICAN DATUM OF 1983



COORDINATES		A	SITE LOCUS MAP		JKS	JKS	JKS	6/24/24
UTM Zone 19	XXXXXX mN, XXXXXX mE	ISSUE	DESCRIPTION		DRWN	CHKD	APPR	DATE
LATITUDE: LONGITUDE:	N XXXXXXX W XXXXXXXX							

BASE MAP: USGS QUADRANGLE MAP, NATICK, MA 2021



# MassDEP - Bureau of Waste Site Cleanup

## Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

### Site Information:

HARDY SCHOOL  
293 WESTON ROAD WELLESLEY, MA  
3-000050297

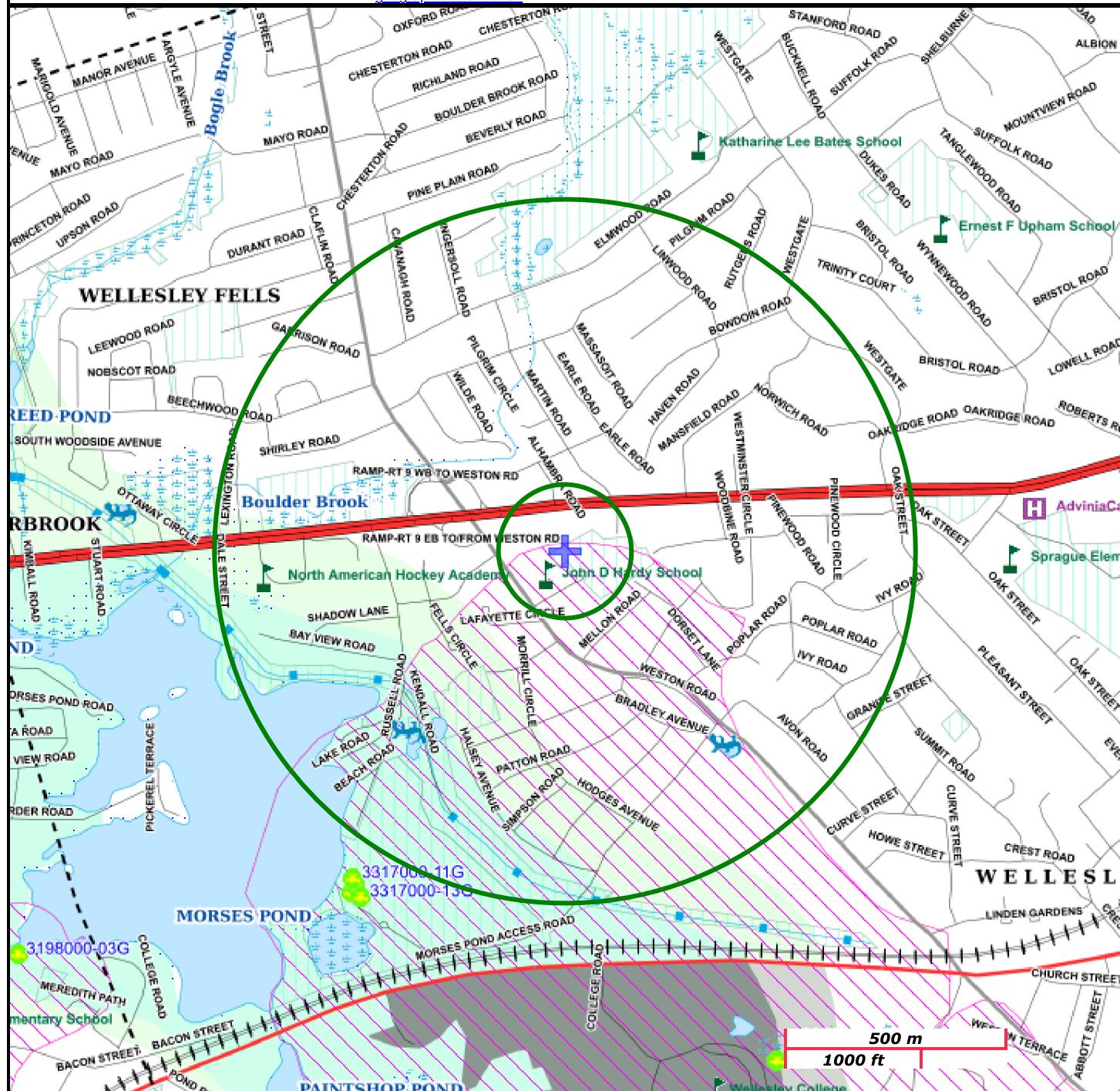
NAD83 UTM Meters:  
4686185mN, 309597mE (Zone: 19)  
July 10, 2024

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: <https://www.mass.gov/orgs/massgis-bureau-of-geographic-information>.



**MassDEP**

Commonwealth of Massachusetts  
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

PWS Protection Areas: Zone II, IWPA, Zone A

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Wetlands: Freshwater, Saltwater, Cranberry Bog

Aquifers: Medium Yield, High Yield, EPA Sole Source

FEMA 100yr Floodplain; Protected Open Space; ACEC

Non Potential Drinking Water Source Area: Medium, High (Yield)

NHESP Pri-Hab of Rare Species; Vernal Pool: Cert, Potential

Solid Waste Landfill; PWS: Com.GW, SW, Emerg., Non-Com.

## TABLES



Table 1

RTN: 3-0050297	Wayne J Griffen Electric - Hardy Elementary School 293 Weston Road, Wellesley, MA. 02482	CH SALES ORDER 2403152545
Date	Event	Waste Generated
5/9/2024	Generator filled with 800 gallons of dyed diesel	
6/7/2024	Release discovered RTN 3-0050297 issued * CHES Responds, LSP and others, meeting * MassDEP notified, Fire Department notified * Removed 75 gals diesel from generator tank * Generator removed * Concrete pad removed * Containment boom placed at Morses Pond	• 75 Gallons of diesel concrete debris with diesel •
6/15/2024	Geoprobe installation of wells MW-1 to MW-6; LNAPL in all 6 wells	
6/19/2024	Bail-down test on LNAPL recovery	
6/20/2024	Hi-Vacuum product recovery event with Cyn Environmental	200 gallons total oil/water 10 gallons of diesel LNAPL
6/21/2024	Hi-Vacuum product recovery event with Cyn Environmental	600 gallons total oil/water 20 gallons of diesel LNAPL
6/22/2024	Geoprobe installation of well MW-7 to MW-14 Gauge wells for LNAPL thickness	1100 gallons of total oil/water 20 gallons of diesel LNAPL
6/24/2024	Hi-Vacuum product recovery event with Cyn Environmental	1200 gallons of total oil/water 20 gallons of diesel LNAPL
6/25/2024	Well gauging; Hi-vacuum product recovery with Cyn Environmental	360 gallons of total oil/water 10 gallons of diesel LNAPL
6/26/2024	Hi-Vacuum product recovery event with Cyn Environmental	320 gallons of total oil/water 7 gallons of diesel LNAPL
6/28/2024	Well gauging Storm Drain outfall sampling for discharge permit application	
7/1/2024	Sampled wells MW-9, MW-11, MW-14	
7/3/2024	Sampled well MW-2 for metals and other parameters for discharge permit. Crew breaking up concrete pad	
7/9/2024	Soil excavation near generator pad, started stockpiling impacted soil	
7/10/2024	Soil excavation Began staging frac tanks for dewatering	
7/11/2024	Excavation of impacted soils Gauging wells for LNAPL thickness	72.49 tons of soil recycled
7/12/2024	Soil Excavation	107.41 tons of soil recycled
7/15/2024	Soil Excavation, setting sumps for water pumping	
7/16/2024	Soil Excavation, began pumping to frac tanks. Approx 5,100 gallons pumped	77.47 tons of soil recycled
7/17/2024	Soil Excavation, still pumping water, additional 4,600 gallons (9,700 gallons in 2 days)	73.55 tons of soil recycled
7/18/2024	Soil Excavation to 15 feet below surface	112.94 tons of soil recycled
7/19/2024	Starting to backfill excavation with crushed stone at water.	100.74 tons of soil recycled
7/22/2024	backfilling	26.85 tons of soil recycled
7/23/2024	Collected water sample from frac tank system (effluent) Water being pumped into stone layer of excavation in source area Checked outfall areas - no visible petroleum sheen	18,500 gallons of treated water pumped back into excavation
	Removal of groundwater treatment system	BOL for 6.02 tons spent filter media BOL for 650 gallons of frac tank wash fluids
7/30/2024	Gauging wells for LNAPL thickness	
8/6/2024	Well location survey, site visit	

Table 1

RTN: 3-0050297	<b>Wayne J Griffen Electric - Hardy Elementary School</b> 293 Weston Road, Wellesley, MA. 02482	CH SALES ORDER <b>2403152545</b>
Date	Event	Waste Generated
<b>8/10/2024</b>	Drilling; soil samples to delineate outside area of excavation. Set wells MW-15 to MW-20	
<b>8/14/2024</b>	Gauging wells for LNAPL thickness	
<b>8/26/2024</b>	Hi-Vacuum product recovery event with Cyn Environmental	30 gallons of diesel LNAPL
<b>8/29/2024</b>	Peristaltic pump used to remove LNAPL; deployed sorbent sock in well MW-17	<1 gallon of diesel LNAPL from Sump 2
<b>9/9/2024</b>	Sump 2 dry (water table dropped below 11.7 feet); replaced MW-17 sorbent sock	1 sorbent sock drummed
<b>9/18/2024</b>	Quarterly groundwater sampling and well gauging; water table dropped to 12.5 feet bsg, sums dry. MW-11 now has LNAPL, deployed sorbent sock.	2 sorbent socks drummed (MW-11 and MW-17)
<b>9/25/2024</b>	Drilling; replaced damaged well MW-13, added MW-21 and MW-22, placed well near Sump 2 for LNAPL recovery	
<b>9/27/2024</b>	Drilling; 3 additional wells along fenceline	
<b>10/1/2024</b>	Gauged and bailed LNAPL from wells	
<b>10/4/2024</b>	Boom removed from Morses Pond	
<b>10/8/2024</b>	Gauged 13 wells; LNAPL only in MW-22 and MW-23	
<b>10/15/2024</b>	Gauged 18 wells; LNAPL only in MW-23	
<b>10/22/2024</b>	Gauged 17 wells; LNAPL only in MW-11 and MW-23	
<b>11/1/2024</b>	Gauged 4 wells; LNAPL only in MW-11; hydroseeding in area of wells	
<b>11/6/2024</b>	Checked on wells, recent hydroseeding - no access to some wells; no LNAPL in MW-11	
<b>11/13/2024</b>	Uncovered wells from hydroseed; replaced sorbent socks MW-11 and MW-22	
<b>12/2/2024</b>	GW sampling; "skim" of LNAPL MW-21, MW-22 and MW-23	
<b>12/30/2024</b>	Drum removal; MW-11 has no LNAPL, other wells too muddy to access	1 drum of sorbent media/NAPL
<b>1/29/2024</b>	Gauged 16 wells - no LNAPL, sorbent socks in MW-21 and 22 have a little diesel staining	
<b>2/18/2024</b>	GW sampling; "skim" of LNAPL MW-21, MW-22 and MW-23	

Table 2

LNAPL Gauging/Recovery  
Hardy School  
RTN 3-50297

Table 2

LNAPL Gauging/Recovery  
Hardy School  
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Table 2

LNAPL Gauging/Recovery  
Hardy School  
RTN 3-50297

Well	Date	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Extraction Method	Extraction Period	Extraction Volume	Notes	Extraction Period	Extraction Volume	Notes	Extraction Period	Extraction Volume
MW23	9/27/2024	12.67	13.09	0.42									
MW13	9/27/2024		12.9										
MW24	9/27/2024		14.57										
MW25	9/27/2024		12.51										
MW17	9/27/2024		12.54										
MW26	9/27/2024		13.25										
MW21	9/27/2024				Sock & Bailor		17 oz	Switch sock. Fully soaked	Bailed 3x	???	5-6 in. 3-4 in. 2-3 in. of product in bailor after each time		
MW22	9/27/2024				Sock & Bailor		17 oz	Switch sock. Fully soaked	Bailed 3x	???	3-3.5 in. 2-2.5in. 1-2 in. of product in bailor after each time		
MW14	10/1/2024		12.77										
MW10	10/1/2024		12.94										
MW11	10/1/2024	13.21	13.55	0.34	Sock & Bailor		17 oz	Switch sock. Fully soaked	Bailed 3x	???	3 in. 2 in. 1.5 in. of product in bailor after each time		
MW15	10/1/2024		12.83										
MW8	10/1/2024		12.93										
MW16	10/1/2024		13										
MW22	10/1/2024	12.42	12.93	0.51	Sock & Bailor		17 oz	Switch sock. Fully soaked	Bailed 6x	???	5-6 in. 5-5.5 in. 4-5 in. 3-4 in. 2-3 in. 2-3 in. of product in bailor after each time		
MW21	10/1/2024		12.83		Sock & Bailor		3.4 oz	Remove sock. 20% soaked	Bailed 3x		0 product. Bailed to clean and purge well.		
MW23	10/1/2024	12.73	13.16	0.43	Peristaltic pump	2 hours on and off	5/8 Gallon						
MW24	10/1/2024		14.66										
MW25	10/1/2024		13.6										
MW26	10/1/2024		13.36										
MW18	10/1/2024		12.81										
MW17	10/1/2024		12.56										
MW19	10/1/2024		13.11										
MW12	10/1/2024		12.53										
MW20	10/1/2024		12.77										
MW13	10/1/2024		12.99										
Sump1	10/1/2024		DRY										
Sump2	10/1/2024		DRY										
	10/1/2024						Recovered about 1 Gallon						
MW8	10/4/2024		13.03										
MW11	10/4/2024	13.31	13.54	0.23	Sock & Bailor		14.5 oz	Switch sock, 85% soaked	Bailed 2x	???	2 in. 1 in. when bailed. Water table was getting close to bottom of well. Need to be careful not to bail out too much water!		
MW21	10/4/2024		12.93										
MW17	10/4/2024		12.64										
MW22	10/4/2024	12.51	12.79	0.28	Sock & Bailor		17 oz	Switch Sock, Fully soaked	Bailed 4x	???	1.5 in. & less than 1 in for the rest of bail.		
MW23	10/4/2024	12.82	13.26	0.44	Peristaltic pump	1 hour on and off	1/20 Gallon	1 in. well.. Product on interface probe reads high but pumps out real quick					
MW19	10/4/2024		13.16										
MW20	10/4/2024		13.86										
MW13	10/4/2024		12.07										
MW24	10/4/2024		14.74										
MW25	10/4/2024		13.67										
MW26	10/4/2024		13.42										
MW18	10/4/2024		12.87										
MW12	10/4/2024		12.67										
MW8	10/8/2024		13.11		Sock & Bailor			Kept same sock because it was clean	Bailed 1x		No product		
MW11	10/8/2024		13.43		Sock & Bailor		9 oz	Switch sock, 50% soaked	Bailed 1x		No product		
MW10	10/8/2024		13.1										
MW14	10/8/2024		12.94										
MW15	10/8/2024		12.89										
MW16	10/8/2024		13.17										
MW22	10/8/2024	12.64	12.85	0.21	Sock & Bailor		17 oz	Switch sock, fully soaked	Bailed 3x	???	1.5 in. less than 1 in. less than 0.5 in. each time bailed.		
MW23	10/8/2024	12.9	13.42	0.52	Peristaltic pump	1 hour on and off	less than 1/20 Gallon	1 in. well			Product rebounded much slower than previous weeks		
MW24	10/8/2024		14.83										
MW25	10/8/2024		13.77										
MW26	10/8/2024		13.54										
MW21	10/8/2024		13.03		Sock & Bailor		3-2 oz	remove sock slight staining and smell, did not leave new sock	Bailed 1x		No product.		
MW17	10/8/2024		12.73										
MW14	10/15/2024		13.08										
MW10	10/15/2024		13.26										
MW15	10/15/2024		12.97										
MW16	10/15/2024		13.29										
MW8	10/15/2024		13.26		Sock & Bailor			Switch sock, no product. Very faint staining and smell					

Table 2

LNAPL Gauging/Recovery  
Hardy School  
RTN 3-50297

Well	Date	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Extraction Method	Extraction Period	Extraction Volume	Notes	Extraction Period	Extraction Volume	Notes	Extraction Period	Extraction Volume
MW11	10/15/2024		13.59		Sock & Bailor		6.5 oz	Switch sock, Less then 50% soaked	Bailed 1x		No product		
MW23	10/15/2024	13.1	13.2	0.1	Peristaltic Pump	2 hours on and off	4 oz	Very slow rebound. Minimal amount of product					
MW22	10/15/2024		12.78		Sock & Bailor		8.5 oz	Switch sock, 50% full.	Bailed 3x		No product		
MW21	10/15/2024		13.2		Sock & Bailor			Switch sock, Very faint staining and smell	Bailed 1x		No product		
MW12	10/15/2024		12.85										
MW13	10/15/2024		13.33										
MW20	10/15/2024		13.28										
MW19	10/15/2024		13.42										
MW17	10/15/2024		12.89										
MW18	10/15/2024		12.88										
MW26	10/15/2024		13.67										
MW25	10/15/2024		13.92										
MW24	10/15/2024		14.92										
MW10	10/22/2024		13.41										
MW15	10/22/2024		13.26										
MW16	10/22/2024		13.46										
MW8	10/22/2024		13.42										
MW11	10/22/2024	13.7	13.77	0.07	Sock & Bailor		12 oz	Switch sock, about 70% full	Bailed 2x	???	2 in. 2 in. both times bailed... water table getting to bottom of well		
MW22	10/22/2024		12.97			Bailed 2x		No product just water					
MW23	10/22/2024	13.27	13.28	0.01	Peristaltic Pump	1 hour on and off		No product just water					
MW17	10/22/2024		13.09			Bailed 1x		No product just water					
MW18	10/22/2024		13.06										
MW24	10/22/2024		15.21										
MW25	10/22/2024		14.08										
MW26	10/22/2024		13.83										
MW12	10/22/2024		13										
MW19	10/22/2024		13.56										
MW20	10/22/2024		13.26										
MW13	10/22/2024		13.48										
MW14	10/22/2024		13.27										
MW7	11/1/2024		13.5										
MW8	11/1/2024		13.62										
MW15	11/1/2024		13.84										
MW11	11/1/2024	13.93	13.98	0.05	Switch Sock		6 oz	Busy construction site. No room to bail and pump other wells			From here on out the playground is open for school / kids		
MW11	11/6/2024		14.04		Switch Sock		3.5 oz	Wells need to be relocated via map and magnetic finder					
MW22	11/14/2024				Sock Switch		3.5 oz						
MW11	11/14/2024				Sock Switch		0.5						
MW10	12/2/2024		13.46										
MW16	12/2/2024		13.49										
MW11	12/2/2024		13.77										
MW20	12/2/2024		13.31										
MW14	12/2/2024		13.29										
MW19	12/2/2024		13.63										
MW12	12/2/2024		13.05										
MW8	12/2/2024				Sock Stuck in Well			Need fishing hook to recover sock!	(recovered)				
MW17	12/2/2024		13.09										
MW21	12/2/2024	13.56	13.56	Skim	Sock Switch		3oz						
MW18	12/2/2024		13.12										
MW22	12/2/2024	13.01	13.01	Skim	Sock Switch		17oz						
MW24	12/2/2024		15.19										
MW25	12/2/2024		14.13										
MW26	12/2/2024		13.88										
MW13	12/2/2024		13.52										
MW23	12/2/2024	13.31	13.31	Skim									
MW15	12/2/2024		14.23										
MW10	1/29/2025		12.71										
MW11	1/29/2025		13.03					Rust stain / faint smell					
MW14	1/29/2025		12.55										
MW20	1/29/2025		12.54										
MW12	1/29/2025		12.29					Probe smells like product					
MW19	1/29/2025		12.86										
MW17	1/29/2025		12.31										
MW18	1/29/2025		12.36										
MW21	1/29/2025		12.81					4" of rust stain with diesel odor					
MW22	1/29/2025		12.24					half way full of product					
MW23	1/29/2025		12.55										
MW24	1/29/2025		14.43										
MW25	1/29/2025		13.36										
MW26	1/29/2025		13.11										
MW16	1/29/2025		12.72					sock damp / no product					
MW8	1/29/2025		12.71										
MW-11	2/18/2025		12.65					Rust stain / faint smell					

Table 2

LNAPL Gauging/Recovery  
Hardy School  
RTN 3-50297

**Table 3**

**Soil Grain Size**  
**Hardy School**  
**RTN 3-50297**

SAMPLE ID:	B15-S3	B16-S5	B17-S4	B18-S5	B20-S4	B24-S5	B25-S5	B26-S5
LAB ID:	L2445804-02	L2445804-05	L2445804-08	L2445804-11	L2445804-14	L2445804-01	L2445804-02	L2445804-03
COLLECTION DATE:	8/10/2024	8/10/2024	8/10/2024	8/10/2024	8/10/2024	9/27/2024	9/27/2024	9/27/2024
SAMPLE DEPTH:								
SAMPLE MATRIX:	SOIL							
<b>GRAIN SIZE ANALYSIS</b>								
Cobbles	ND	NA	NA	ND	NA	NA	ND	NA
% Coarse Gravel	ND	NA	NA	ND	NA	NA	ND	NA
% Fine Gravel	ND	NA	NA	ND	NA	NA	ND	NA
% Total Gravel	ND	NA	NA	ND	NA	NA	ND	NA
% Coarse Sand	ND	NA	NA	ND	NA	NA	ND	NA
% Medium Sand	ND	NA	NA	ND	NA	NA	ND	NA
% Fine Sand	ND	NA	NA	ND	NA	NA	ND	NA
% Total Sand	11	0.1	NA	29	0.1	NA	21	0.1
% Total Fines	89	0.1	NA	71	0.1	NA	7	0.1

\* Comparison is not performed on parameters with non-numeric criteria.

NOCRIT2: No Criteria Report -

**Table 4**  
**Groundwater Analytical Summary**  
**New Hardy School**  
**Diesel Release**  
**RTN 3-0050297**

Well ID	Date	Extractable Petroleum Hydrocarbon Fractions				Extractable Petroleum Hydrocarbon Target Analytes (Diesel)				Volatile Petroleum Hydrocarbon Fractions				Volatile Petroleum Hydrocarbon Target Analytes (Diesel)					
		2024 GW-1 Criteria		C11-C22 Aromatics 200	C19-C36 Aliphatics 14000	C9-C18 Aliphatics 700	2-methylnaphthalene 10	acenaphthene 20	naphthalene 140	phenanthrene 50	C5-C8 Aliphatics 300	C9-C10 Aromatics 200	C9-C12 Aliphatics 700	benzene 5	ethylbenzene 700	methyl tert-butyl ether 70	naphthalene 140	toluene 1000	total xylenes 10000
		2024 GW-2 Criteria																	
Wells MW-1 through MW-6 were excavated and removed prior to sampling.																			
MW-7	6/26/2024	<93.5	240	<93	<4.7	<4.7	<9.3	<4.7	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
	9/18/2024	<100	<100	<100	<0.4	<0.4	<0.4	<0.4	<100	<100	<100	<2	<2	<3	<4	<2	<2		
	12/2/2024																		
	2/18/2025																		
MW-8	6/28/2024	185	<96	101	<4.8	<4.8	<9.6	<4.8	<158	506	<270	<1.5	<5	<1.5	<5	21.7	140.9		
	9/18/2024	<95.2	<95	<95	<4.8	<4.8	<9.6	<4.8	<158	<100	<270	<1.5	<5	<1.5	<5				
	12/2/2024	<95.2	<95	<95	<4.8	<4.8	<9.6	<4.8	<158	<100	<270	<1.5	<5	<1.5	<5				
	2/18/2025																		
MW-9	7/1/2024	7100	5810	22500	66.2	<4.7	13.7	8.9	<158	488	<270	5.7	22	<1.5	18.7	44.3	144.5		
	9/18/2024																		
	12/2/2024																		
	2/18/2025																		
Well MW-9 was decommissioned during the excavation of LNAPL containing soil in July 2024																			
MW-10	6/28/2024	<98	<98	<98	<4.9	<4.9	<9.8	<4.9	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
	9/18/2024	<100	<100	<100	<0.4	<0.4	<0.4	<0.4	<100	<100	<100	<2	<2	<3	<4	<2	<2		
	12/2/2024	<95.2	<95	<95	<4.8	<4.8	<9.6	<4.8	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
	2/18/2025	<97.1	<97	<97	<4.9	<4.9	<9.7	<4.9	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
MW-11	7/1/2024	515	222	779	7.9	<4.7	<9.4	<4.7	163	708	<270	4.3	17.1	<1.5	21	36.2	152		
	9/18/2024																		
	12/2/2024	132	<95	<95	<4.8	<4.8	<9.6	<4.8	<158	302	<270	<1.5	<5	<1.5	<5		12		
	2/18/2025	<93.5	<93	<93	<4.7	<4.7	<9.3	<4.7	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
MW-12	6/28/2024	<97.1	<97	<97	<4.9	<4.9	<9.7	<4.9	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
	9/18/2024	<100	<100	<100	2.3	<0.4	1.28	<0.4	<100	<100	<100	<2	<2	<3	<4	<2	2.86		
	12/2/2024	105	<95	<95	<4.8	<4.8	<9.6	<4.8	<158	187	<270	<1.5	<5	<1.5	<5	<5	28.4		
	2/18/2025	203	<93	<93	11.2	<4.7	<9.3	<4.7	<158	200	<270	<1.5	<5	<1.5	20.1	<5	13.4		
MW-13	6/28/2024	<96.2	<96	<96	<4.8	<4.8	<9.6	<4.8	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
	9/18/2024																		
	12/2/2024	<95.2	<95	<95	<4.8	<4.8	<9.6	<4.8	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
	2/18/2025																		
MW-14	7/1/2024	<97.1	211	<97	<4.9	<4.9	<9.7	<4.9	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
	9/18/2024																		
	12/2/2024	<95.2	<95	<95	<4.8	<4.8	<9.6	<4.8	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
	2/18/2025																		
MW-15	8/21/2024	<100	<100	<100	<0.4	<0.4	<0.4	<0.4	<100	<100	<100	<2	<2	<3	<4	<2	<2		
	9/18/2024	<100	<100	<100	<0.4	<0.4	<0.4	<0.4	<100	<100	<100	<2	<2	<3	<4	<2	<2		
	12/2/2024	<95.2	<95	<95	<4.8	<4.8	<9.6	<4.8	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
	2/18/2025																		
MW-16	8/21/2024	<100	<100	<100	<0.4	<0.4	<0.4	<0.4	<100	<100	<100	<2	<2	<3	<4	<2	<2		
	9/18/2024	<100	<100	<100	<0.4	<0.4	<0.4	<0.4	<100	<100	<100	<2	<2	<3	<4	<2	<2		
	12/2/2024	<95.2	<95	<95	<4.8	<4.8	<9.6	<4.8	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
	2/18/2025	<95.2	<95	<95	<4.8	<4.8	<9.5	<4.8	<158	<100	<270	<1.5	<5	<1.5	<5	<5	<5		
MW-17	8/21/2024																		
	9/18/2024	271	<100	<100	6.24	1.43	16.4	0.72</td											

## APPENDIX A



June 19, 2024

James Keith Sullivan  
Clean Harbors Environmental Services, Inc.  
42 Longwater Drive  
Norwell, Massachusetts 02061

Re: Agent Authorization

Diesel Release  
Hardy Elementary School  
293 Weston Road, Wellesley, MA 02482  
Release Tracking No. 3-0050297

Dear Mr. Sullivan:

On behalf of **Wayne J. Griffin Electric, Inc.**, I authorize Daniel Taylor, Ken McDermott, and James Keith Sullivan, of Clean Harbors Environmental Services, Inc. (Clean Harbors) to sign Massachusetts Department of Environmental Protection (MassDEP) Bureau of Waste Site Cleanup transmittal forms, reports, bills of lading and/or uniform hazardous waste manifests, waste profiles and waste disposal applications as Agent for **Wayne J. Griffin Electric, Inc.**, for RTN 3-0050297.

This authorization is in accordance with Section 310 CMR 40.0009(2) of the Massachusetts Contingency Plan. I also authorize Clean Harbors to make electronic submittals of MassDEP documents. I understand that **Wayne J. Griffin Electric, Inc.**, remains fully liable under federal and state laws and regulations regarding Certifications of Person Undertaking Response Actions contained in the MassDEP transmittal forms as the generator and responsible party, and that Clean Harbors would be signing solely for our convenience.

Sincerely,

---

David Benoit, Director of Operations  
Wayne J. Griffin Electric, Inc.  
116 Hopping Brook Road  
Holliston, Massachusetts, 01746



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

**Immediate Response Action (IRA) Transmittal Form**

Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

**BWSC 105**

Release Tracking Number

3

- 50297

**A. SITE LOCATION:**

1. Release Name/Location Aid: 293 WESTON ROAD, WELLESLEY

2. Street Address: 293 WESTON ROAD

3. City/Town: WELLESLEY 4. Zip Code: 024820000

5. Check here if this location is Adequately Regulated, pursuant to 310 CMR 40.0110-0114.

a. CERCLA       b. HSWA Corrective Action       c. Solid Waste Management

d. RCRA State Program (21C Facilities)

**B. THIS FORM IS BEING USED TO: (check all that apply)**

1. List Submittal Date of Initial IRA Written Plan (if previously submitted): \_\_\_\_\_

2. Submit an **Initial IRA Plan**.

3. Submit a **Modified IRA Plan** of a previously submitted written IRA Plan.

4. Submit an **Imminent Hazard Evaluation**. (check one)

a. An Imminent Hazard exists in connection with this Release or Threat of Release.

b. An Imminent Hazard does not exist in connection with this Release or Threat of Release.

c. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release, and further assessment activities will be undertaken.

d. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release. However, response actions will address those conditions that could pose an Imminent Hazard.

5. Submit a request to **Terminate an Active Remedial System or Response Action(s), Taken to Address an Imminent Hazard**.

6. Submit an **IRA Status Report**

7. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)

a. Type of Report: (check one)       i. Initial Report       ii. Interim Report       iii. Final Report

b. Frequency of Submittal: (check all that apply)

i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.

ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.

iii. A Remedial Monitoring Report(s) submitted every six months, concurrent with an IRA Status Report.

iv. A Remedial Monitoring Report(s) submitted annually, concurrent with an IRA Status Report.

c. Number of Remedial Systems, Active Exposure Pathway Mitigation Measures and/or Monitoring Programs: \_\_\_\_\_

A separate BWSC105A, IRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

**Immediate Response Action (IRA) Transmittal Form**

Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

**BWSC 105**

Release Tracking Number

3

- 50297

8. Submit an **IRA Completion Statement**.

a. Check here if future response actions addressing this Release or Threat of Release notification condition will be conducted as part of the Response Actions planned or ongoing at a Site that has already been Tier Classified under a different Release Tracking Number (RTN)

b. Provide Release Tracking Number of Tier Classified Site (Primary RTN): \_\_\_\_\_

These additional response actions must occur according to the deadlines applicable to the Primary RTN. Use the Primary RTN when making all future submittals for the site unless specifically relating to this Immediate Response Action.

9. Submit a **Revised IRA Completion Statement**.

10. Submit a **Plan for the Application of Remedial Additives** near a sensitive receptor, pursuant to 310 CMR 40.0046(3).

(All sections of this transmittal form must be filled out unless otherwise noted above)

**C. RELEASE OR THREAT OF RELEASE (TOR) CONDITIONS THAT WARRANT IRA:**

1. Media Impacted and Receptors Affected: (check all that apply)

a. Paved Surface

b. Basement

c. School

d. Public Water Supply

e. Surface Water

f. Zone 2

g. Private Well

h. Residence

i. Soil

j. Groundwater

k. Sediments

l. Wetland

m. Storm Drain

n. Indoor Air

o. Air

p. Soil Gas

q. Sub-Slab Soil Gas

r. Critical Exposure Pathway

s. NAPL

t. Unknown

r. Others Specify: \_\_\_\_\_

2. Sources of the Release or TOR: (check all that apply)

a. Transformer

b. Fuel Tank

c. Pipe

d. OHM Delivery

e. AST

f. Drums

g. Tanker Truck

h. Hose

i. Line

j. UST Describe: \_\_\_\_\_

k. Vehicle

m. Unkown

n. Other: \_\_\_\_\_

GENERATOR DIESEL TANK

3. Type of Release or TOR: (check all that apply)

a. Dumping

b. Fire

c. AST Removal

d. Overfill

e. Rupture

f. Vehicle Accident

g. Leak

h. Spill

i. Test failure

j. TOR Only

k. UST Removal

Describe: \_\_\_\_\_

l. Unknown

m. Other: \_\_\_\_\_

4. Identify Oils and Hazardous Materials Released: (check all that apply)

a. Oils

b. Chlorinated Solvents

c. Heavy Metals

d. Others Specify: \_\_\_\_\_

**D. DESCRIPTION OF RESPONSE ACTIONS:** (check all that apply, for volumes list cumulative amounts)

1. Assessment and/or Monitoring Only

2. Temporary Covers or Caps

3. Deployment of Absorbent or Containment Materials

4. Temporary Water Supplies

5. Structure Venting System/HVAC Modification System

6. Temporary Evacuation or Relocation of Residents

7. Product or NAPL Recovery

8. Fencing and Sign Posting

9. Groundwater Treatment Systems

10. Soil Vapor Extraction

11. Remedial Additives

12. Air Sparging

13. Active Exposure Pathway Mitigation System

14. Passive Exposure Pathway Mitigation System

**DRAFT COPY**



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

**Immediate Response Action (IRA) Transmittal Form**

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**D. DESCRIPTION OF RESPONSE ACTIONS: (cont.)**

15. Excavation of Contaminated Soils.

<input checked="" type="checkbox"/> a. Re-use, Recycling or Treatment	<input type="checkbox"/> i. On Site	Estimated volume in cubic yards	_____
	<input checked="" type="checkbox"/> ii. Off Site	Estimated volume in cubic yards	430
iia. Receiving Facility:	CLEAN EARTH (ESMI)	Town:	LOUDON
iib. Receiving Facility:		Town:	
iii. Describe:	_____		
<input type="checkbox"/> b. Store	<input type="checkbox"/> i. On Site	Estimated volume in cubic yards	_____
	<input type="checkbox"/> ii. Off Site	Estimated volume in cubic yards	_____
iia. Receiving Facility:		Town:	
iib. Receiving Facility:		Town:	
<input type="checkbox"/> c. Landfill	<input type="checkbox"/> i. Cover	Estimated volume in cubic yards	_____
Receiving Facility:		Town:	
	<input type="checkbox"/> ii. Disposal	Estimated volume in cubic yards	_____
Receiving Facility:		Town:	

16. Removal of Drums, Tanks, or Containers:

a. Describe Quality and Amount:	_____	
b. Receiving Facility:	Town:	State:
c. Receiving Facility:	Town:	State:

17. Removal of Other Contaminated Media:

a. Specify Type and Volume:	5.5 TONS OF CONCRETE	DIESEL
-----------------------------	----------------------	--------

18. Other Response Actions:

Describe:	_____
-----------	-------

19. Use of Innovative Technologies:

Describe:	_____
-----------	-------



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

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**E. LSP SIGNATURE AND STAMP:**

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B of this form indicates that an **Immediate Response Action Plan** is being submitted, the response action(s) that is(are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is(are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Imminent Hazard Evaluation** is being submitted, this Imminent Hazard Evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and the assessment activity(ies) undertaken to support this Imminent Hazard Evaluation comply(ies) with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000;

> if Section B of this form indicates that an **Immediate Response Action Status Report** and/or a **Remedial Monitoring Report** is(are) being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000,(ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Immediate Response Action Completion Statement** or a request to **Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard** is being submitted, the response action(s) that is(are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is(are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 5473

2. First Name: DANIELE

3. Last Name: TAYLOR

4. Telephone: 734-626-7846

5. Ext:

Email: taylor.daniel1@cleanharbors.com

7. Signature: \_\_\_\_\_

8. Date: \_\_\_\_\_ (*mm/dd/yyyy*)

9. SSI Stamp: \_\_\_\_\_



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

**Immediate Response Action (IRA) Transmittal Form**

Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

**BWSC 105**

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**F. PERSON UNDERTAKING IRA:**

1. Check all that apply:  a. change in contact name  b. change of address  c. change in the person undertaking response actions
2. Name of Organization: WAYNE J. GRIFFIN ELECTRIC, INC.
3. Contact First Name: JOSEPH
4. Last Name: CLOUGHERTY
5. Street: 116 HOPPING BROOK ROAD
6. Title: MANAGER
7. City/Town: HOLLISTON
8. State: MA
9. Zip Code: 017460000
10. Telephone: 508-429-8830
11. Ext:
12. Email: jclougherty@wjgei.com

**G. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING IRA:**

- Check here to change relationship
1. RP or PRP  a. Owner  b. Operator  c. Generator  d. Transporter
- e. Other RP or PRP Specify Relationship: NON-SPECIFIED PRP
2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
4. Any Other Person Undertaking Response Actions: Specify Relationship:

**H. REQUIRED ATTACHMENT AND SUBMITTALS:**

- DRAFT COPY**
1. Check here if Any Remediation Waste, generated as a result of this IRA, will be stored, treated, managed, recycled or reused at the site following submission of this IRA Completion Statement. If this box is checked, you must submit one of the following plans, along with the appropriate transmittal form:
- a. A Release Abatement Measure (RAM) Plan (BWSC106)  b. Phase IV Remedy Implementation Plan (BWSC108)
2. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by MassDEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.
3. Check here to certify that the Chief Municipal Officer and the Local Board of Health were notified of the implementation of an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.
4. Check here to certify that the Chief Municipal Officer and the Local Board of Health were notified of the submittal of a Completion Statement for an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.
5. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to BWSC.eDEP@Mass.Gov.
6. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

**Immediate Response Action (IRA) Transmittal Form**

Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

**BWSC 105**

Release Tracking Number

3

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**I. CERTIFICATION OF PERSON UNDERTAKING IRA:**

1. I, \_\_\_\_\_, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form; (ii) that, based on my inquiry of the/those individual(s) immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge, information and belief, true, accurate and complete; (iii) that, to the best of my knowledge, information and belief, I/the person(s) or entity(ies) on whose behalf this submittal is made satisfy(ies) the criteria in 310 CMR 40.0183(2); (iv) that I/the person(s) or entity(ies) on whose behalf this submittal is made have provided notice in accordance with 310 CMR 40.0183(5); and (v) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. I/the person(s) or entity(ies) on whose behalf this submittal is made is/are aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: \_\_\_\_\_

3. Title: MANAGER

4. For: WAYNE J. GRIFFIN ELECTRIC, INC.

5. Date: \_\_\_\_\_ (mm/dd/yyyy)

6. Check here if the address of the person providing certification is different from address recorded in Section F.

7. Street: \_\_\_\_\_

8. City/Town: \_\_\_\_\_

9. State: \_\_\_\_\_ 10. Zip Code: \_\_\_\_\_

11. Telephone: \_\_\_\_\_ 12. Ext: \_\_\_\_\_ 13. Email: \_\_\_\_\_

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY): \_\_\_\_\_

**DRAFT COPY**

## APPENDIX B



### Ellipsoidal Flow Steady State Model Single Pair of Discharge and Drawdown

Intake (screen) length (cm)

Intake (hole) diameter (cm)

Steady state discharge (L/min)

Steady state drawdown (cm)

\* This workbook can be used with the half ellipsoidal model by substituting the intake hole radius (R) instead of the intake hole diameter (D).

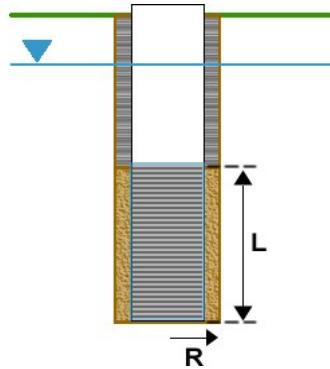
L=	211.84	cm
D <sup>*</sup> =	10.160	cm
Q=	0.32	L/min
H=	48.4632	cm
Computed Values		
K=	3.09E-04	cm/s
K=	8.75E-01	ft/day

#### Formula

$$Q = \frac{2\pi LKH}{2.303 \log \left[ \frac{L}{D} + \sqrt{1 + \left( \frac{L}{D} \right)^2} \right]}$$

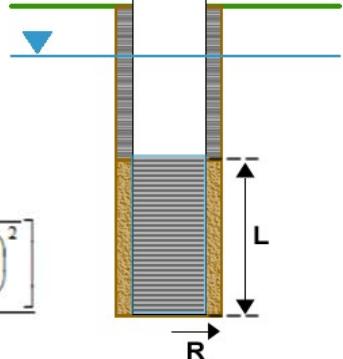
#### Single O/H

$$K = \frac{Q * 2.303 \log \left[ \frac{L}{D} + \sqrt{1 + \left( \frac{L}{D} \right)^2} \right]}{2\pi LH}$$



Model based on Hvorslev (1951)

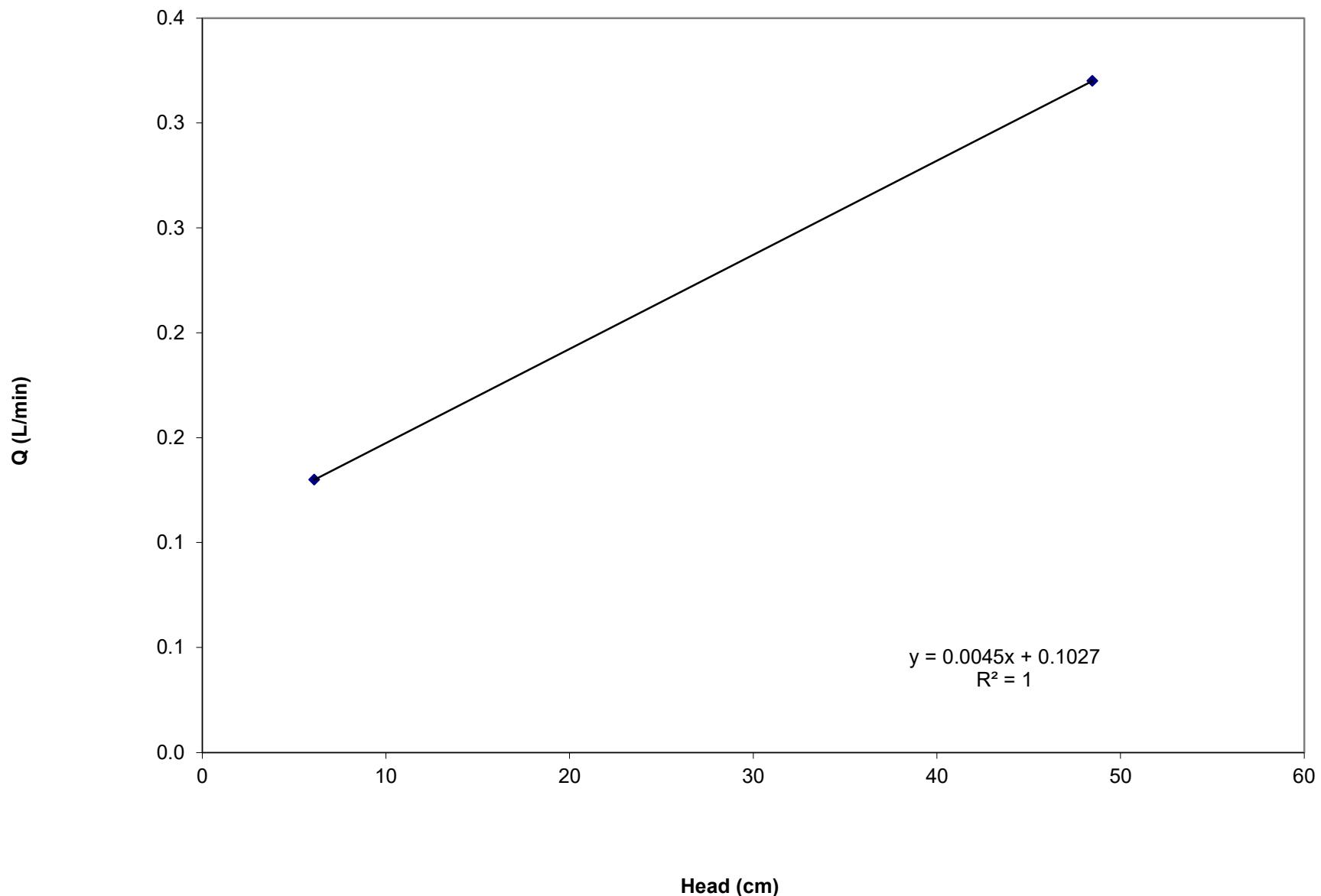
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Ellipsoidal Flow Steady State Model		
<b>Site Information</b>		
Site	Hardy School MW-16	
Sampler No.	MW-16	
Date	02/18/25	
Personnel	Jack Pesko	
<b>Sampler Information</b>		
P-transducer reading at start (cm):	zero	
Saturated screen length [ L ] (cm):	211.84	
Well Intake diameter [ D ] (cm) <sup>*</sup> :	10.160	
<b>Test</b>	<b>Steady State Drawdown (cm)</b>	<b>Steady State Discharge (L/Min)</b>
Test 1	6.096	0.1
Test 2	48.46	0.3
Test 3		
slope (Q/H)=	0.004484601	L/min/cm
Intercept=	1.03E-01	cm
r <sup>2</sup> =	1.0000	
K=	2.10E-04	cm/s
K=	5.94E-01	ft/day
<u>Formula</u>	<u>Regression</u>	
$Q = \frac{2\pi LKH}{2.303 \log \left[ \frac{L}{D} + \sqrt{1 + \left( \frac{L}{D} \right)^2} \right]}$	$Q = \text{slope} * H$	
$K = \frac{\text{slope} * 2.303 \log \left[ \frac{L}{D} + \sqrt{1 + \left( \frac{L}{D} \right)^2} \right]}{2\pi L}$		
Model Based on Hvorslev (1951)		

\*This workbook can be used with the half ellipsoidal model by substituting the intake hole radius (R) instead of the intake hole diameter (D).

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Hardy School  
RTN 3-50297  
MW-16 Low Flow Test



**Ellipsoidal Flow Steady State Model**  
**Single Pair of Discharge and Drawdown**

Intake (screen) length (cm)

L=	244.14	cm
----	--------	----

Intake (hole) diameter (cm)

D <sup>*</sup> =	10.160	cm
------------------	--------	----

Steady state discharge (L/min)

Q=	0.78	L/min
----	------	-------

Steady state drawdown (cm)

H=	0.9144	cm
----	--------	----

\* This workbook can be used with the half ellipsoidal model by substituting the intake hole radius (R) instead of the intake hole diameter (D).

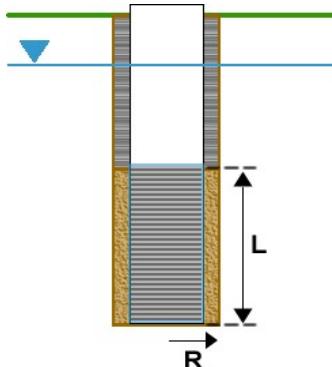
Computed Values

K=	3.59E-02	cm/s
----	----------	------

K=	1.02E+02	ft/day
----	----------	--------

Formula

$$Q = \frac{2\pi LKH}{2.303 \log \left[ \frac{L}{D} + \sqrt{1 + \left( \frac{L}{D} \right)^2} \right]}$$

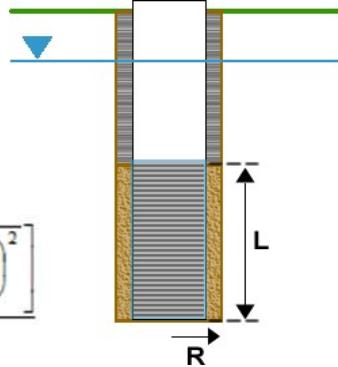


Single O/H

$$K = \frac{Q * 2.303 \log \left[ \frac{L}{D} + \sqrt{1 + \left( \frac{L}{D} \right)^2} \right]}{2\pi LH}$$

Model based on Hvorslev (1951)

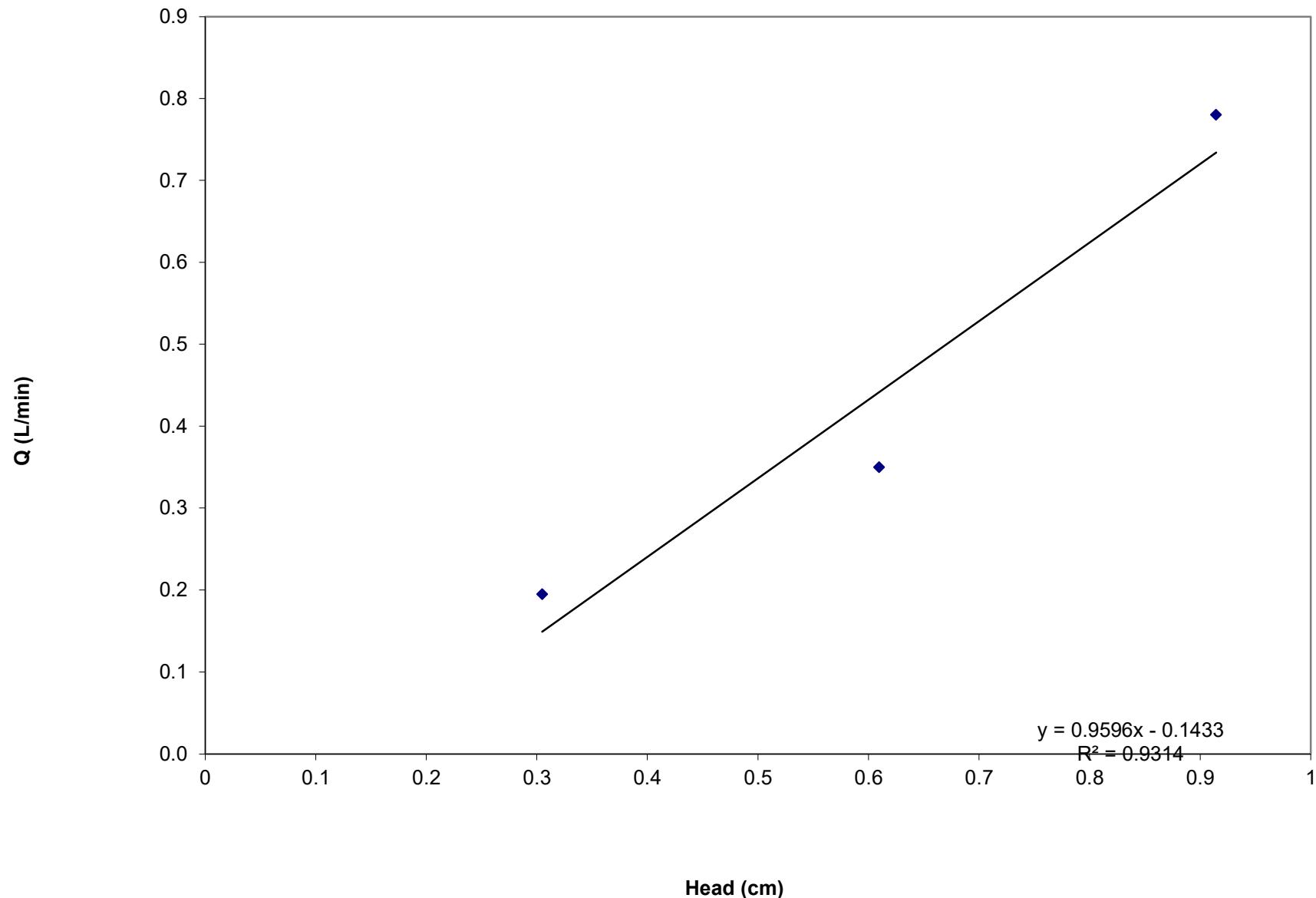
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Ellipsoidal Flow Steady State Model		
Site Information		
Site	Hardy School MW-17	
Sampler No.	MW-17	
Date	02/18/25	
Personnel	Jack Pesko	
Sampler Information		
P-transducer reading at start (cm):	zero	
Saturated screen length [ L ] (cm):	244.14	
Well Intake diameter [ D ] (cm) :	10.160	
Test	Steady State Drawdown (cm)	Steady State Discharge (L/Min)
Test 1	0.3048	0.2
Test 2	0.61	0.4
Test 3	0.91	0.8
slope (Q/H)=	0.959645669	L/min/cm
Intercept=	-1.43E-01	cm
r <sup>2</sup> =	0.9651	
K=	4.04E-02	cm/s
K=	1.14E+02	ft/day
<u>Formula</u>	<u>Regression</u>	
$Q = \frac{2\pi LKH}{2.303 \log \left[ \frac{L}{D} + \sqrt{1 + \left( \frac{L}{D} \right)^2} \right]}$	$Q = \text{slope} * H$ $K = \frac{\text{slope} * 2.303 \log \left[ \frac{L}{D} + \sqrt{1 + \left( \frac{L}{D} \right)^2} \right]}{2\pi L}$	
Model Based on Hvorslev (1951)		

\*This workbook can be used with the half ellipsoidal model by substituting the intake hole radius (R) instead of the intake hole diameter (D).

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Hardy School  
RTN 3-50297  
MW-17 Low Flow Test



## APPENDIX C



**CERTIFICATE OF ANALYSIS**

Daniel Taylor  
Clean Harbors  
42 Longwater Drive  
Norwell, MA 02061-9149

**RE: Hardy School (2403152545)**  
**ESS Laboratory Work Order Number: 24L0130**

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard  
Laboratory Director

**REVIEWED**

*By ESS Laboratory at 2:20 pm, Dec 11, 2024*

**Analytical Summary**

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School

ESS Laboratory Work Order: 24L0130

**SAMPLE RECEIPT**

The following samples were received on December 04, 2024 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

**Question I: All samples for EPH were analyzed for a subset of the required MCP list per the client's request.**

Lab Number	Sample Name	Matrix	Analysis
24L0130-01	MW-8	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-02	MW-10	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-03	MW-11	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-04	MW-12	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-05	MW-13	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-06	MW-14	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-07	MW-15	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-08	MW-16	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-09	MW-17	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-10	MW-18	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-11	MW-19	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-12	MW-20	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-13	MW-21	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-14	MW-22	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-15	MW-23	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-16	MW-24	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-17	MW-25	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-18	MW-26	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
24L0130-19	Trip Blank	Aqueous	MA-VPH-2.1

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
Client Project ID: Hardy School

ESS Laboratory Work Order: 24L0130

**PROJECT NARRATIVE**

**MADEP-EPH Extractable Petroleum Hydrocarbons**

D4L0132-CCV2    Continuing Calibration %Diff/Drift is below control limit (CD-).  
                    2-Bromonaphthalene (23% @ 20%), Naphthalene (26% @ 20%)

**MADEP-VPH Volatile Petroleum Hydrocarbon**

D4L0127-CCV2    Surrogate recovery(ies) below lower control limit (S-).  
                    2,5-Dibromotoluene - FID (77% @ 80-120%)

No other observations noted.

End of Project Narrative.

**DATA USABILITY LINKS**

*To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.*

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
Client Project ID: Hardy School

ESS Laboratory Work Order: 24L0130

**CURRENT SW-846 METHODOLOGY VERSIONS****Analytical Methods**

1010A - Flashpoint  
6010D - ICP  
6020B - ICP MS  
7010 - Graphite Furnace  
7196A - Hexavalent Chromium  
7470A - Aqueous Mercury  
7471B - Solid Mercury  
8011 - EDB/DBCP/TCP  
8015C - GRO/DRO  
8081B - Pesticides  
8082A - PCB  
8100M - TPH  
8151A - Herbicides  
8260D - VOA  
8270E - SVOA  
8270E SIM - SVOA Low Level  
9014 - Cyanide  
9038 - Sulfate  
9040C - Aqueous pH  
9045D - Solid pH (Corrosivity)  
9050A - Specific Conductance  
9056A - Anions (IC)  
9060A - TOC  
9095B - Paint Filter  
MADEP 19-2.1 - EPH  
MADEP 18-2.1 - VPH

**Prep Methods**

3005A - Aqueous ICP Digestion  
3020A - Aqueous Graphite Furnace / ICP MS Digestion  
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion  
3060A - Solid Hexavalent Chromium Digestion  
3510C - Separatory Funnel Extraction  
3520C - Liquid / Liquid Extraction  
3540C - Manual Soxhlet Extraction  
3546 - Microwave Extraction  
3580A - Waste Dilution  
5030B - Aqueous Purge and Trap  
5030C - Aqueous Purge and Trap  
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
Client Project ID: Hardy School

ESS Laboratory Work Order: 24L0130

**MassDEP Analytical Protocol Certification Form**

MADEP RTN: \_\_\_\_\_

This form provides certification for the following data set: **24L0130-01 through 24L0130-19**

Matrices:  Ground Water/Surface Water       Soil/Sediment       Drinking Water       Air       Other: \_\_\_\_\_

**CAM Protocol** (check all that apply below):

- |   |  |  |   |  |   |
|---|--|--|---|--|---|
| ( <input type="checkbox"/> ) 8260 VOC<br>CAM II A     | ( <input type="checkbox"/> ) 7470/7471 Hg<br>CAM III B | ( <input type="checkbox"/> ) MassDEP VPH<br>(GC/PID/FID)<br>CAM IV A | ( <input type="checkbox"/> ) 8082 PCB<br>CAM V A        | ( <input type="checkbox"/> ) 9014 Total<br>Cyanide/PAC<br>CAM VI A | ( <input type="checkbox"/> ) 6860 Perchlorate<br>CAM VIII B |
| ( <input type="checkbox"/> ) 8270 SVOC<br>CAM II B    | ( <input type="checkbox"/> ) 7010 Metals<br>CAM III C  | ( <input type="checkbox"/> ) MassDEP VPH<br>(GC/MS)<br>CAM IV C      | ( <input type="checkbox"/> ) 8081 Pesticides<br>CAM V B | ( <input type="checkbox"/> ) 7196 Hex Cr<br>CAM VI B               | ( <input type="checkbox"/> ) MassDEP APH<br>CAM IX A        |
| ( <input type="checkbox"/> ) 6010 Metals<br>CAM III A | ( <input type="checkbox"/> ) 6020 Metals<br>CAM III D  | ( <input checked="" type="checkbox"/> MassDEP EPH<br>CAM IV B        | ( <input type="checkbox"/> ) 8151 Herbicides<br>CAM V C | ( <input type="checkbox"/> ) Explosives<br>CAM VIII A              | ( <input type="checkbox"/> ) TO-15 VOC<br>CAM IX B          |

***Affirmative responses to questions A through F are required for "Presumptive Certainty" status***

- A Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? Yes () No ()
- B Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? Yes () No ()
- C Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? Yes () No ()
- D Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes () No ()
- E VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). Yes () No ()
- b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? Yes () No ()
- F Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? Yes () No ()

***Responses to Questions G, H and I below are required for "Presumptive Certainty" status***

- G Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? Yes () No ()\*
- Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350.***
- H Were **all** QC performance standards specified in the CAM protocol(s) achieved? Yes () No ()\*
- I Were results reported for the complete analyte list specified in the selected CAM protocol(s)? Yes () No ()\*

**\*All negative responses must be addressed in an attached laboratory narrative.**

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

Signature:   
Printed Name: Laurel Stoddard

Date: December 11, 2024  
Position: Laboratory Director

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-8  
 Date Sampled: 12/02/24 11:15  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-01  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/05/24 17:44	D4L0127	DL40617
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/05/24 17:44	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/05/24 17:44	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/05/24 17:44	D4L0127	DL40617
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 17:44	D4L0127	DL40617
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/05/24 17:44	D4L0127	DL40617
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 17:44	D4L0127	DL40617
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 17:44	D4L0127	DL40617
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 17:44	D4L0127	DL40617
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/05/24 17:44	D4L0127	DL40617
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40617

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	90 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	93 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-8  
 Date Sampled: 12/02/24 11:15  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-01  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 10:00

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 19:15	D4L0143	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 19:15	D4L0143	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 14:13	D4L0132	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 14:13	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 14:13	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 14:13	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 14:13	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 14:13	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>			<b>JDN</b>			<b>DL40602</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	82 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	81 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	78 %		40-140
<i>Surrogate: O-Terphenyl</i>	97 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-10

Date Sampled: 12/02/24 10:50

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130

ESS Laboratory Sample ID: 24L0130-02

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/05/24 18:16	D4L0127	DL40617
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/05/24 18:16	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/05/24 18:16	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/05/24 18:16	D4L0127	DL40617
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 18:16	D4L0127	DL40617
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/05/24 18:16	D4L0127	DL40617
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 18:16	D4L0127	DL40617
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 18:16	D4L0127	DL40617
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 18:16	D4L0127	DL40617
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/05/24 18:16	D4L0127	DL40617
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40617

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	91 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	93 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-10  
 Date Sampled: 12/02/24 10:50  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-02  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 10:00

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 19:50	D4L0143	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 19:50	D4L0143	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 14:49	D4L0132	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 14:49	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 14:49	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 14:49	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 14:49	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 14:49	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>			<b>JDN</b>			<b>DL40602</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	79 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	72 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	77 %		40-140
<i>Surrogate: O-Terphenyl</i>	97 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-11

Date Sampled: 12/02/24 10:20

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130

ESS Laboratory Sample ID: 24L0130-03

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
<b>C9-C10 Aromatics</b>	<b>302 (100)</b>	---	MA-VPH-2.1	---	1	12/05/24 19:19	D4L0127	DL40617
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/05/24 19:19	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/05/24 19:19	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/05/24 19:19	D4L0127	DL40617
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 19:19	D4L0127	DL40617
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/05/24 19:19	D4L0127	DL40617
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 19:19	D4L0127	DL40617
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 19:19	D4L0127	DL40617
<b>Xylene O</b>	<b>12.0 (5.0)</b>	---	MA-VPH-2.1	---	1	12/05/24 19:19	D4L0127	DL40617
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/05/24 19:19	D4L0127	DL40617
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40617

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	107 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	101 %		70-130

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-11  
 Date Sampled: 12/02/24 10:20  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-03  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 10:00

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 20:24	D4L0143	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 20:24	D4L0143	DL40602
<b>C11-C22 Unadjusted Aromatics1</b>	<b>132 (95.2)</b>	---	EPH8270	---	1	IBM	12/09/24 15:25	D4L0132	DL40602
<b>C11-C22 Aromatics1,2</b>	<b>132 (95.2)</b>	---	EPH8270	---		IBM	12/09/24 15:25	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 15:25	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 15:25	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 15:25	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 15:25	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MADEP-EPH			JDN			DL40602

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	58 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	83 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	78 %		40-140
<i>Surrogate: O-Terphenyl</i>	67 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-12

Date Sampled: 12/02/24 12:10

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130

ESS Laboratory Sample ID: 24L0130-04

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
<b>C9-C10 Aromatics</b>	<b>187 (100)</b>	---	MA-VPH-2.1	---	1	12/05/24 18:47	D4L0127	DL40617
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/05/24 18:47	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/05/24 18:47	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/05/24 18:47	D4L0127	DL40617
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 18:47	D4L0127	DL40617
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/05/24 18:47	D4L0127	DL40617
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 18:47	D4L0127	DL40617
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 18:47	D4L0127	DL40617
<b>Xylene O</b>	<b>16.6 (5.0)</b>	---	MA-VPH-2.1	---	1	12/05/24 18:47	D4L0127	DL40617
<b>Xylene P,M</b>	<b>11.8 (10.0)</b>	---	MA-VPH-2.1	---	1	12/05/24 18:47	D4L0127	DL40617
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40617

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	91 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	92 %		70-130

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-12  
 Date Sampled: 12/02/24 12:10  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-04  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 10:00

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 20:59	D4L0143	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 20:59	D4L0143	DL40602
<b>C11-C22 Unadjusted Aromatics1</b>	<b>105 (95.2)</b>	---	EPH8270	---	1	IBM	12/09/24 16:00	D4L0132	DL40602
<b>C11-C22 Aromatics1,2</b>	<b>105 (95.2)</b>	---	EPH8270	---		IBM	12/09/24 16:00	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 16:00	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 16:00	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 16:00	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 16:00	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MADEP-EPH			JDN			DL40602

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	88 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	79 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	78 %		40-140
<i>Surrogate: O-Terphenyl</i>	99 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-13  
 Date Sampled: 12/02/24 12:15  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-05  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/06/24 13:28	D4L0146	DL40645
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/06/24 13:28	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/06/24 13:28	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 13:28	D4L0146	DL40645
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 13:28	D4L0146	DL40645
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 13:28	D4L0146	DL40645
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 13:28	D4L0146	DL40645
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 13:28	D4L0146	DL40645
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 13:28	D4L0146	DL40645
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/06/24 13:28	D4L0146	DL40645
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40645

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	70 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	70 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-13  
 Date Sampled: 12/02/24 12:15  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-05  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 10:00

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 21:33	D4L0143	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 21:33	D4L0143	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 16:36	D4L0132	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 16:36	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 16:36	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 16:36	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 16:36	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 16:36	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>			<b>JDN</b>			<b>DL40602</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	80 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	74 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	73 %		40-140
<i>Surrogate: O-Terphenyl</i>	89 %		40-140

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-14

Date Sampled: 12/02/24 11:40

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130

ESS Laboratory Sample ID: 24L0130-06

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/06/24 14:02	D4L0146	DL40645
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/06/24 14:02	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/06/24 14:02	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 14:02	D4L0146	DL40645
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 14:02	D4L0146	DL40645
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 14:02	D4L0146	DL40645
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 14:02	D4L0146	DL40645
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 14:02	D4L0146	DL40645
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 14:02	D4L0146	DL40645
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/06/24 14:02	D4L0146	DL40645
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40645

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	71 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	71 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-14  
 Date Sampled: 12/02/24 11:40  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-06  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 10:00

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 22:07	D4L0143	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 22:07	D4L0143	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 17:12	D4L0132	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 17:12	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 17:12	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 17:12	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 17:12	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 17:12	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>			<b>JDN</b>			<b>DL40602</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	83 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	75 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	73 %		40-140
<i>Surrogate: O-Terphenyl</i>	96 %		40-140

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-15

Date Sampled: 12/02/24 15:45

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130

ESS Laboratory Sample ID: 24L0130-07

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/06/24 14:37	D4L0146	DL40645
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/06/24 14:37	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/06/24 14:37	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 14:37	D4L0146	DL40645
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 14:37	D4L0146	DL40645
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 14:37	D4L0146	DL40645
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 14:37	D4L0146	DL40645
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 14:37	D4L0146	DL40645
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 14:37	D4L0146	DL40645
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/06/24 14:37	D4L0146	DL40645
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40645

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	73 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	72 %		70-130

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-15  
 Date Sampled: 12/02/24 15:45  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-07  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 10:00

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 22:44	D4L0143	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/06/24 22:44	D4L0143	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 17:48	D4L0132	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 17:48	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 17:48	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 17:48	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 17:48	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 17:48	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>			<b>JDN</b>			<b>DL40602</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	82 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	75 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	75 %		40-140
<i>Surrogate: O-Terphenyl</i>	98 %		40-140

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-16

Date Sampled: 12/02/24 11:20

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130

ESS Laboratory Sample ID: 24L0130-08

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/06/24 15:11	D4L0146	DL40645
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/06/24 15:11	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/06/24 15:11	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 15:11	D4L0146	DL40645
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 15:11	D4L0146	DL40645
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 15:11	D4L0146	DL40645
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 15:11	D4L0146	DL40645
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 15:11	D4L0146	DL40645
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 15:11	D4L0146	DL40645
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/06/24 15:11	D4L0146	DL40645
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40645

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	72 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	74 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-16  
 Date Sampled: 12/02/24 11:20  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-08  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 11:05

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 16:39	D4L0168	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 16:39	D4L0168	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 18:24	D4L0132	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 18:24	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 18:24	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 18:24	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 18:24	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 18:24	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>			<b>JDN</b>			<b>DL40602</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	70 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	69 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	79 %		40-140
<i>Surrogate: O-Terphenyl</i>	97 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-17  
 Date Sampled: 12/02/24 15:00  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-09  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
<b>C9-C10 Aromatics</b>	<b>172 (100)</b>	---	MA-VPH-2.1	---	1	12/06/24 15:46	D4L0146	DL40645
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/06/24 15:46	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/06/24 15:46	---	[CALC]
<b>Benzene</b>	<b>2.9 (1.5)</b>	---	MA-VPH-2.1	---	1	12/06/24 15:46	D4L0146	DL40645
<b>Ethylbenzene</b>	<b>9.1 (5.0)</b>	---	MA-VPH-2.1	---	1	12/06/24 15:46	D4L0146	DL40645
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 15:46	D4L0146	DL40645
<b>Naphthalene</b>	<b>6.7 (5.0)</b>	---	MA-VPH-2.1	---	1	12/06/24 15:46	D4L0146	DL40645
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 15:46	D4L0146	DL40645
<b>Xylene O</b>	<b>37.3 (5.0)</b>	---	MA-VPH-2.1	---	1	12/06/24 15:46	D4L0146	DL40645
<b>Xylene P,M</b>	<b>33.5 (10.0)</b>	---	MA-VPH-2.1	---	1	12/06/24 15:46	D4L0146	DL40645
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40645

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	76 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	74 %		70-130

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-17  
 Date Sampled: 12/02/24 15:00  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-09  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 11:05

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 17:14	D4L0168	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 17:14	D4L0168	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 19:00	D4L0132	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 19:00	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 19:00	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 19:00	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 19:00	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 19:00	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>			<b>JDN</b>			<b>DL40602</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	85 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	70 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	74 %		40-140
<i>Surrogate: O-Terphenyl</i>	86 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-18

Date Sampled: 12/02/24 12:40

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130

ESS Laboratory Sample ID: 24L0130-10

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/06/24 16:20	D4L0146	DL40645
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/06/24 16:20	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/06/24 16:20	---	[CALC]
<b>Benzene</b>	<b>1.5 (1.5)</b>	---	MA-VPH-2.1	---	1	12/06/24 16:20	D4L0146	DL40645
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 16:20	D4L0146	DL40645
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 16:20	D4L0146	DL40645
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 16:20	D4L0146	DL40645
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 16:20	D4L0146	DL40645
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 16:20	D4L0146	DL40645
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/06/24 16:20	D4L0146	DL40645
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40645

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	71 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	71 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-18  
 Date Sampled: 12/02/24 12:40  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-10  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 11:05

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 17:48	D4L0168	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 17:48	D4L0168	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 19:36	D4L0132	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 19:36	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 19:36	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 19:36	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 19:36	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 19:36	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>			<b>JDN</b>			<b>DL40602</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	90 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	76 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	77 %		40-140
<i>Surrogate: O-Terphenyl</i>	97 %		40-140

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-19

Date Sampled: 12/02/24 12:50

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130

ESS Laboratory Sample ID: 24L0130-11

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/06/24 16:54	D4L0146	DL40645
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/06/24 16:54	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/06/24 16:54	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 16:54	D4L0146	DL40645
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 16:54	D4L0146	DL40645
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 16:54	D4L0146	DL40645
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 16:54	D4L0146	DL40645
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 16:54	D4L0146	DL40645
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 16:54	D4L0146	DL40645
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/06/24 16:54	D4L0146	DL40645
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40645

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	72 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	72 %		70-130

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-19  
 Date Sampled: 12/02/24 12:50  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-11  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 11:05

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 18:23	D4L0168	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 18:23	D4L0168	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 20:12	D4L0132	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 20:12	---	[CALC]
<b>2-Methylnaphthalene</b>	<b>5.0 (4.8)</b>	---	EPH8270	---	1	IBM	12/09/24 20:12	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 20:12	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 20:12	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 20:12	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MADEP-EPH			JDN			DL40602

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	87 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	77 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	81 %		40-140
<i>Surrogate: O-Terphenyl</i>	92 %		40-140

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-20  
 Date Sampled: 12/02/24 11:45  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-12  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/06/24 17:29	D4L0146	DL40645
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/06/24 17:29	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/06/24 17:29	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 17:29	D4L0146	DL40645
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 17:29	D4L0146	DL40645
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 17:29	D4L0146	DL40645
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 17:29	D4L0146	DL40645
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 17:29	D4L0146	DL40645
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 17:29	D4L0146	DL40645
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/06/24 17:29	D4L0146	DL40645
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40645

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	72 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	72 %		70-130

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-20  
 Date Sampled: 12/02/24 11:45  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-12  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 11:05

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 18:57	D4L0168	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 18:57	D4L0168	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 20:48	D4L0132	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 20:48	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 20:48	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 20:48	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 20:48	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 20:48	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>			<b>JDN</b>			<b>DL40602</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	86 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	69 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	73 %		40-140
<i>Surrogate: O-Terphenyl</i>	87 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-21

Date Sampled: 12/02/24 13:10

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130

ESS Laboratory Sample ID: 24L0130-13

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
<b>C9-C10 Aromatics</b>	<b>287 (100)</b>	---	MA-VPH-2.1	---	1	12/08/24 1:37	D4L0151	DL40913
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/08/24 1:37	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/08/24 1:37	---	[CALC]
<b>Benzene</b>	<b>2.3 (1.5)</b>	---	MA-VPH-2.1	---	1	12/08/24 1:37	D4L0151	DL40913
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/08/24 1:37	D4L0151	DL40913
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/08/24 1:37	D4L0151	DL40913
<b>Naphthalene</b>	<b>13.0 (5.0)</b>	---	MA-VPH-2.1	---	1	12/08/24 1:37	D4L0151	DL40913
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/08/24 1:37	D4L0151	DL40913
<b>Xylene O</b>	<b>16.0 (5.0)</b>	---	MA-VPH-2.1	---	1	12/08/24 1:37	D4L0151	DL40913
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/08/24 1:37	D4L0151	DL40913
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40913

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	78 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	78 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-21  
 Date Sampled: 12/02/24 13:10  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-13  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 11:05

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
<b>C9-C18 Aliphatics1</b>	<b>247 (95)</b>	---	MADEP-EPH	---	1	JDN	12/09/24 19:32	D4L0168	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 19:32	D4L0168	DL40602
<b>C11-C22 Unadjusted Aromatics1</b>	<b>267 (95.2)</b>	---	EPH8270	---	1	IBM	12/09/24 21:23	D4L0132	DL40602
<b>C11-C22 Aromatics1,2</b>	<b>267 (95.2)</b>	---	EPH8270	---		IBM	12/09/24 21:23	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 21:23	D4L0132	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 21:23	D4L0132	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 21:23	D4L0132	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 21:23	D4L0132	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MADEP-EPH			JDN			DL40602

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	91 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	75 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	80 %		40-140
<i>Surrogate: O-Terphenyl</i>	98 %		40-140

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-22

Date Sampled: 12/02/24 13:30

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130

ESS Laboratory Sample ID: 24L0130-14

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/06/24 18:38	D4L0146	DL40645
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/06/24 18:38	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/06/24 18:38	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 18:38	D4L0146	DL40645
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 18:38	D4L0146	DL40645
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 18:38	D4L0146	DL40645
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 18:38	D4L0146	DL40645
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 18:38	D4L0146	DL40645
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 18:38	D4L0146	DL40645
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/06/24 18:38	D4L0146	DL40645
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40645

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	72 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	73 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-22  
 Date Sampled: 12/02/24 13:30  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-14  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 11:05

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	329 (95)	---	MADEP-EPH	---	1	JDN	12/09/24 20:07	D4L0168	DL40602
C19-C36 Aliphatics1	121 (95)	---	MADEP-EPH	---	1	JDN	12/09/24 20:07	D4L0168	DL40602
C11-C22 Unadjusted Aromatics1	164 (95.2)	---	EPH8270	---	1	IBM	12/09/24 15:09	D4L0148	DL40602
C11-C22 Aromatics1,2	164 (95.2)	---	EPH8270	---		IBM	12/09/24 15:09	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 15:09	D4L0148	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 15:09	D4L0148	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 15:09	D4L0148	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 15:09	D4L0148	DL40602
Preservative:	pH <= 2		MADEP-EPH			JDN			DL40602

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	99 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	88 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	84 %		40-140
<i>Surrogate: O-Terphenyl</i>	95 %		40-140

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-23  
 Date Sampled: 12/02/24 13:15  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-15  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
<b>C9-C10 Aromatics</b>	<b>773 (100)</b>	---	MA-VPH-2.1	---	1	12/08/24 1:02	D4L0151	DL40913
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/08/24 1:02	---	[CALC]
<b>C9-C12 Aliphatics2,3</b>	<b>288 (270)</b>	---	MA-VPH-2.1	---	1	12/08/24 1:02	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/08/24 1:02	D4L0151	DL40913
<b>Ethylbenzene</b>	<b>8.6 (5.0)</b>	---	MA-VPH-2.1	---	1	12/08/24 1:02	D4L0151	DL40913
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/08/24 1:02	D4L0151	DL40913
<b>Naphthalene</b>	<b>28.8 (5.0)</b>	---	MA-VPH-2.1	---	1	12/08/24 1:02	D4L0151	DL40913
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/08/24 1:02	D4L0151	DL40913
<b>Xylene O</b>	<b>49.6 (5.0)</b>	---	MA-VPH-2.1	---	1	12/08/24 1:02	D4L0151	DL40913
<b>Xylene P,M</b>	<b>58.5 (10.0)</b>	---	MA-VPH-2.1	---	1	12/08/24 1:02	D4L0151	DL40913
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40913

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	82 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	77 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-23  
 Date Sampled: 12/02/24 13:15  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-15  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 11:05

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	2020 (95)	---	MADEP-EPH	---	1	JDN	12/09/24 20:41	D4L0168	DL40602
C19-C36 Aliphatics1	593 (95)	---	MADEP-EPH	---	1	JDN	12/09/24 20:41	D4L0168	DL40602
C11-C22 Unadjusted Aromatics1	1090 (95.2)	---	EPH8270	---	1	IBM	12/09/24 15:49	D4L0148	DL40602
C11-C22 Aromatics1,2	1080 (95.2)	---	EPH8270	---		IBM	12/09/24 15:49	---	[CALC]
2-Methylnaphthalene	7.3 (4.8)	---	EPH8270	---	1	IBM	12/09/24 15:49	D4L0148	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 15:49	D4L0148	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 15:49	D4L0148	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 15:49	D4L0148	DL40602
Preservative:	pH <= 2		MADEP-EPH			JDN			DL40602

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	83 %		40-140
Surrogate: 2-Bromonaphthalene	93 %		40-140
Surrogate: 2-Fluorobiphenyl	91 %		40-140
Surrogate: O-Terphenyl	103 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-24

Date Sampled: 12/02/24 14:00

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130

ESS Laboratory Sample ID: 24L0130-16

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/06/24 19:12	D4L0146	DL40645
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/06/24 19:12	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/06/24 19:12	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 19:12	D4L0146	DL40645
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 19:12	D4L0146	DL40645
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/06/24 19:12	D4L0146	DL40645
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 19:12	D4L0146	DL40645
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 19:12	D4L0146	DL40645
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/06/24 19:12	D4L0146	DL40645
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/06/24 19:12	D4L0146	DL40645
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40645

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	71 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	71 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-24  
 Date Sampled: 12/02/24 14:00  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-16  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 11:05

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 21:16	D4L0168	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 21:16	D4L0168	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 16:28	D4L0148	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 16:28	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 16:28	D4L0148	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 16:28	D4L0148	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 16:28	D4L0148	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 16:28	D4L0148	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>			<b>JDN</b>			<b>DL40602</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	77 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	94 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	90 %		40-140
<i>Surrogate: O-Terphenyl</i>	87 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-25

Date Sampled: 12/02/24 16:00

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130

ESS Laboratory Sample ID: 24L0130-17

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/07/24 23:54	D4L0151	DL40913
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/07/24 23:54	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/07/24 23:54	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/07/24 23:54	D4L0151	DL40913
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/07/24 23:54	D4L0151	DL40913
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/07/24 23:54	D4L0151	DL40913
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/07/24 23:54	D4L0151	DL40913
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/07/24 23:54	D4L0151	DL40913
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/07/24 23:54	D4L0151	DL40913
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/07/24 23:54	D4L0151	DL40913
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40913

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	71 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	72 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-25  
 Date Sampled: 12/02/24 16:00  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-17  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 11:05

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 21:50	D4L0168	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 21:50	D4L0168	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 17:08	D4L0148	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 17:08	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 17:08	D4L0148	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 17:08	D4L0148	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 17:08	D4L0148	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 17:08	D4L0148	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>			<b>JDN</b>			<b>DL40602</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	87 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	83 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	90 %		40-140
<i>Surrogate: O-Terphenyl</i>	108 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-26  
 Date Sampled: 12/02/24 14:05  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-18  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/08/24 0:28	D4L0151	DL40913
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/08/24 0:28	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/08/24 0:28	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/08/24 0:28	D4L0151	DL40913
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/08/24 0:28	D4L0151	DL40913
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/08/24 0:28	D4L0151	DL40913
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/08/24 0:28	D4L0151	DL40913
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/08/24 0:28	D4L0151	DL40913
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/08/24 0:28	D4L0151	DL40913
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/08/24 0:28	D4L0151	DL40913
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40913

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	70 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	70 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-26  
 Date Sampled: 12/02/24 14:05  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-18  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 12/6/24 11:05

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 22:25	D4L0168	DL40602
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	12/09/24 22:25	D4L0168	DL40602
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	IBM	12/09/24 17:47	D4L0148	DL40602
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		IBM	12/09/24 17:47	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 17:47	D4L0148	DL40602
Acenaphthene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 17:47	D4L0148	DL40602
Naphthalene	ND (9.5)	---	EPH8270	---	1	IBM	12/09/24 17:47	D4L0148	DL40602
Phenanthrene	ND (4.8)	---	EPH8270	---	1	IBM	12/09/24 17:47	D4L0148	DL40602
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>			<b>JDN</b>			<b>DL40602</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	81 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	94 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	91 %		40-140
<i>Surrogate: O-Terphenyl</i>	103 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: Trip Blank  
 Date Sampled: 12/02/24 00:00  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 24L0130  
 ESS Laboratory Sample ID: 24L0130-19  
 Sample Matrix: Aqueous  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	12/05/24 12:28	D4L0127	DL40617
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	12/05/24 12:28	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	12/05/24 12:28	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	12/05/24 12:28	D4L0127	DL40617
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 12:28	D4L0127	DL40617
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	12/05/24 12:28	D4L0127	DL40617
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 12:28	D4L0127	DL40617
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 12:28	D4L0127	DL40617
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	12/05/24 12:28	D4L0127	DL40617
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	12/05/24 12:28	D4L0127	DL40617
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DL40617

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	87 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	87 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School

ESS Laboratory Work Order: 24L0130

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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MADEP-VPH Volatile Petroleum Hydrocarbon

**Batch DL40617 - 5030B**

**Blank**

Benzene	ND	1.5	ug/L							
C5-C8 Unadjusted Aliphatics	ND	150	ug/L							
C9-C10 Aromatics	ND	100	ug/L							
C9-C12 Unadjusted Aliphatics	ND	150	ug/L							
Ethylbenzene	ND	5.0	ug/L							
Methyl tert-Butyl Ether	ND	1.5	ug/L							
Naphthalene	ND	5.0	ug/L							
Toluene	ND	5.0	ug/L							
Xylene O	ND	5.0	ug/L							
Xylene P,M	ND	10.0	ug/L							

Surrogate: 2,5-Dibromotoluene - FID

44.2 ug/L 50.00 88 70-130

Surrogate: 2,5-Dibromotoluene - PID

44.5 ug/L 50.00 89 70-130

**LCS**

Benzene	45.5	1.5	ug/L	50.00	91	70-130				
C5-C8 Unadjusted Aliphatics	419	150	ug/L	400.0	105	70-130				
C9-C10 Aromatics	95.7	100	ug/L	100.0	96	70-130				
C9-C12 Unadjusted Aliphatics	220	150	ug/L	300.0	73	70-130				
Ethylbenzene	47.9	5.0	ug/L	50.00	96	70-130				
Methyl tert-Butyl Ether	129	1.5	ug/L	150.0	86	70-130				
Naphthalene	100	5.0	ug/L	100.0	100	70-130				
Toluene	139	5.0	ug/L	150.0	93	70-130				
Xylene O	92.4	5.0	ug/L	100.0	92	70-130				
Xylene P,M	186	10.0	ug/L	200.0	93	70-130				

Surrogate: 2,5-Dibromotoluene - FID

42.9 ug/L 50.00 86 70-130

Surrogate: 2,5-Dibromotoluene - PID

44.7 ug/L 50.00 89 70-130

**LCS Dup**

Benzene	45.7	1.5	ug/L	50.00	91	70-130	0.5	25		
C5-C8 Unadjusted Aliphatics	429	150	ug/L	400.0	107	70-130	2	25		
C9-C10 Aromatics	97.3	100	ug/L	100.0	97	70-130	2	25		
C9-C12 Unadjusted Aliphatics	234	150	ug/L	300.0	78	70-130	6	25		
Ethylbenzene	48.4	5.0	ug/L	50.00	97	70-130	0.9	25		
Methyl tert-Butyl Ether	131	1.5	ug/L	150.0	87	70-130	1	25		
Naphthalene	103	5.0	ug/L	100.0	103	70-130	3	25		
Toluene	140	5.0	ug/L	150.0	93	70-130	0.7	25		
Xylene O	93.7	5.0	ug/L	100.0	94	70-130	1	25		
Xylene P,M	188	10.0	ug/L	200.0	94	70-130	1	25		

Surrogate: 2,5-Dibromotoluene - FID

44.9 ug/L 50.00 90 70-130

Surrogate: 2,5-Dibromotoluene - PID

46.6 ug/L 50.00 93 70-130

**Batch DL40645 - 5030B**

**Blank**

Benzene	ND	1.5	ug/L							
C5-C8 Unadjusted Aliphatics	ND	150	ug/L							
C9-C10 Aromatics	ND	100	ug/L							

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School

ESS Laboratory Work Order: 24L0130

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>MADEP-VPH Volatile Petroleum Hydrocarbon</b>										
<b>Batch DL40645 - 5030B</b>										
C9-C12 Unadjusted Aliphatics	ND	150	ug/L							
Ethylbenzene	ND	5.0	ug/L							
Methyl tert-Butyl Ether	ND	1.5	ug/L							
Naphthalene	ND	5.0	ug/L							
Toluene	ND	5.0	ug/L							
Xylene O	ND	5.0	ug/L							
Xylene P,M	ND	10.0	ug/L							
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	<i>36.8</i>		ug/L	<i>50.00</i>		<i>74</i>	<i>70-130</i>			
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	<i>36.7</i>		ug/L	<i>50.00</i>		<i>73</i>	<i>70-130</i>			
<b>LCS</b>										
Benzene	45.0	1.5	ug/L	50.00		90	70-130			
C5-C8 Unadjusted Aliphatics	369	150	ug/L	400.0		92	70-130			
C9-C10 Aromatics	89.6	100	ug/L	100.0		90	70-130			
C9-C12 Unadjusted Aliphatics	218	150	ug/L	300.0		73	70-130			
Ethylbenzene	46.4	5.0	ug/L	50.00		93	70-130			
Methyl tert-Butyl Ether	123	1.5	ug/L	150.0		82	70-130			
Naphthalene	95.7	5.0	ug/L	100.0		96	70-130			
Toluene	135	5.0	ug/L	150.0		90	70-130			
Xylene O	82.8	5.0	ug/L	100.0		83	70-130			
Xylene P,M	177	10.0	ug/L	200.0		89	70-130			
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	<i>54.4</i>		ug/L	<i>50.00</i>		<i>109</i>	<i>70-130</i>			
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	<i>55.3</i>		ug/L	<i>50.00</i>		<i>111</i>	<i>70-130</i>			
<b>LCS Dup</b>										
Benzene	43.9	1.5	ug/L	50.00		88	70-130	2	25	
C5-C8 Unadjusted Aliphatics	370	150	ug/L	400.0		93	70-130	0.4	25	
C9-C10 Aromatics	88.8	100	ug/L	100.0		89	70-130	0.9	25	
C9-C12 Unadjusted Aliphatics	240	150	ug/L	300.0		80	70-130	10	25	
Ethylbenzene	45.3	5.0	ug/L	50.00		91	70-130	2	25	
Methyl tert-Butyl Ether	120	1.5	ug/L	150.0		80	70-130	2	25	
Naphthalene	92.0	5.0	ug/L	100.0		92	70-130	4	25	
Toluene	135	5.0	ug/L	150.0		90	70-130	0.3	25	
Xylene O	81.8	5.0	ug/L	100.0		82	70-130	1	25	
Xylene P,M	176	10.0	ug/L	200.0		88	70-130	0.8	25	
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	<i>37.8</i>		ug/L	<i>50.00</i>		<i>76</i>	<i>70-130</i>			
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	<i>37.4</i>		ug/L	<i>50.00</i>		<i>75</i>	<i>70-130</i>			
<b>Batch DL40913 - 5030B</b>										
<b>Blank</b>										
Benzene	ND	1.5	ug/L							
C5-C8 Unadjusted Aliphatics	ND	150	ug/L							
C9-C10 Aromatics	ND	100	ug/L							
C9-C12 Unadjusted Aliphatics	ND	150	ug/L							
Ethylbenzene	ND	5.0	ug/L							
Methyl tert-Butyl Ether	ND	1.5	ug/L							
Naphthalene	ND	5.0	ug/L							

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School

ESS Laboratory Work Order: 24L0130

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**MADEP-VPH Volatile Petroleum Hydrocarbon**

**Batch DL40913 - 5030B**

Toluene	ND	5.0	ug/L							
Xylene O	ND	5.0	ug/L							
Xylene P,M	ND	10.0	ug/L							
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	35.7		ug/L	50.00		71	70-130			
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	36.6		ug/L	50.00		73	70-130			

**LCS**

Benzene	43.9	1.5	ug/L	50.00		88	70-130			
C5-C8 Unadjusted Aliphatics	377	150	ug/L	400.0		94	70-130			
C9-C10 Aromatics	86.6	100	ug/L	100.0		87	70-130			
C9-C12 Unadjusted Aliphatics	217	150	ug/L	300.0		72	70-130			
Ethylbenzene	44.8	5.0	ug/L	50.00		90	70-130			
Methyl tert-Butyl Ether	123	1.5	ug/L	150.0		82	70-130			
Naphthalene	91.0	5.0	ug/L	100.0		91	70-130			
Toluene	133	5.0	ug/L	150.0		89	70-130			
Xylene O	80.9	5.0	ug/L	100.0		81	70-130			
Xylene P,M	174	10.0	ug/L	200.0		87	70-130			
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	39.2		ug/L	50.00		78	70-130			
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	38.6		ug/L	50.00		77	70-130			

**LCS Dup**

Benzene	43.6	1.5	ug/L	50.00		87	70-130	0.7	25	
C5-C8 Unadjusted Aliphatics	370	150	ug/L	400.0		92	70-130	2	25	
C9-C10 Aromatics	87.0	100	ug/L	100.0		87	70-130	0.4	25	
C9-C12 Unadjusted Aliphatics	211	150	ug/L	300.0		70	70-130	3	25	
Ethylbenzene	45.2	5.0	ug/L	50.00		90	70-130	0.8	25	
Methyl tert-Butyl Ether	122	1.5	ug/L	150.0		82	70-130	0.4	25	
Naphthalene	92.2	5.0	ug/L	100.0		92	70-130	1	25	
Toluene	134	5.0	ug/L	150.0		89	70-130	0.4	25	
Xylene O	81.2	5.0	ug/L	100.0		81	70-130	0.3	25	
Xylene P,M	175	10.0	ug/L	200.0		88	70-130	0.4	25	
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	40.6		ug/L	50.00		81	70-130			
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	40.2		ug/L	50.00		80	70-130			

**MADEP-EPH Extractable Petroleum Hydrocarbons**

**Batch DL40602 - 3510C**

<b>Blank</b>										
C19-C36 Aliphatics1	ND	100	ug/L							
C9-C18 Aliphatics1	ND	100	ug/L							
<i>Surrogate: 1-Chlorooctadecane</i>	45.7		ug/L	50.00		91	40-140			

**Blank**

2-Methylnaphthalene	ND	5.0	ug/L							
Acenaphthene	ND	5.0	ug/L							
Acenaphthylene	ND	5.0	ug/L							
Anthracene	ND	5.0	ug/L							
Benzo(a)anthracene	ND	5.0	ug/L							

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School

ESS Laboratory Work Order: 24L0130

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>MADEP-EPH Extractable Petroleum Hydrocarbons</b>										
<b>Batch DL40602 - 3510C</b>										
Benzo(a)pyrene	ND	10.0	ug/L							
Benzo(b)fluoranthene	ND	5.0	ug/L							
Benzo(g,h,i)perylene	ND	10.0	ug/L							
Benzo(k)fluoranthene	ND	10.0	ug/L							
C11-C22 Unadjusted Aromatics1	ND	100	ug/L							
Chrysene	ND	10.0	ug/L							
Dibenzo(a,h)Anthracene	ND	5.0	ug/L							
Fluoranthene	ND	10.0	ug/L							
Fluorene	ND	5.0	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	5.0	ug/L							
Naphthalene	ND	10.0	ug/L							
Phenanthrene	ND	5.0	ug/L							
Pyrene	ND	5.0	ug/L							
<i>Surrogate: 2-Bromonaphthalene</i>	39.5		ug/L	50.00		79	40-140			
<i>Surrogate: 2-Fluorobiphenyl</i>	39.1		ug/L	50.00		78	40-140			
<i>Surrogate: O-Terphenyl</i>	49.9		ug/L	50.00		100	40-140			
<b>LCS</b>										
C19-C36 Aliphatics1	385	100	ug/L	400.0		96	40-140			
C9-C18 Aliphatics1	227	100	ug/L	300.0		76	40-140			
<i>Surrogate: 1-Chlorooctadecane</i>	45.8		ug/L	50.00		92	40-140			
<b>LCS</b>										
2-Methylnaphthalene	32.0	5.0	ug/L	50.00		64	40-140			
Acenaphthene	35.8	5.0	ug/L	50.00		72	40-140			
Acenaphthylene	36.5	5.0	ug/L	50.00		73	40-140			
Anthracene	39.9	5.0	ug/L	50.00		80	40-140			
Benzo(a)anthracene	38.1	5.0	ug/L	50.00		76	40-140			
Benzo(a)pyrene	40.9	10.0	ug/L	50.00		82	40-140			
Benzo(b)fluoranthene	36.3	5.0	ug/L	50.00		73	40-140			
Benzo(g,h,i)perylene	33.3	10.0	ug/L	50.00		67	40-140			
Benzo(k)fluoranthene	38.1	10.0	ug/L	50.00		76	40-140			
C11-C22 Unadjusted Aromatics1	693	100	ug/L	850.0		82	40-140			
Chrysene	37.6	10.0	ug/L	50.00		75	40-140			
Dibenzo(a,h)Anthracene	36.4	5.0	ug/L	50.00		73	40-140			
Fluoranthene	39.3	10.0	ug/L	50.00		79	40-140			
Fluorene	36.6	5.0	ug/L	50.00		73	40-140			
Indeno(1,2,3-cd)Pyrene	35.0	5.0	ug/L	50.00		70	40-140			
Naphthalene	30.1	10.0	ug/L	50.00		60	40-140			
Phenanthrene	37.7	5.0	ug/L	50.00		75	40-140			
Pyrene	38.8	5.0	ug/L	50.00		78	40-140			
<i>Surrogate: 2-Bromonaphthalene</i>	40.0		ug/L	50.00		80	40-140			
<i>Surrogate: 2-Fluorobiphenyl</i>	42.0		ug/L	50.00		84	40-140			
<i>Surrogate: O-Terphenyl</i>	51.7		ug/L	50.00		103	40-140			
<b>LCS</b>										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
Client Project ID: Hardy School

ESS Laboratory Work Order: 24L0130

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>MADEP-EPH Extractable Petroleum Hydrocarbons</b>										
<b>Batch DL40602 - 3510C</b>										
Naphthalene Breakthrough	0.0		%				0-5			
<b>LCS Dup</b>										
C19-C36 Aliphatics1	395	100	ug/L	400.0	99	40-140	3	25		
C9-C18 Aliphatics1	237	100	ug/L	300.0	79	40-140	5	25		
<i>Surrogate: 1-Chlorooctadecane</i>	<b>48.4</b>		ug/L	<b>50.00</b>	<b>97</b>	<b>40-140</b>				
<b>LCS Dup</b>										
2-Methylnaphthalene	32.6	5.0	ug/L	50.00	65	40-140	2	20		
Acenaphthene	37.5	5.0	ug/L	50.00	75	40-140	5	20		
Acenaphthylene	37.5	5.0	ug/L	50.00	75	40-140	3	20		
Anthracene	42.1	5.0	ug/L	50.00	84	40-140	5	20		
Benzo(a)anthracene	39.7	5.0	ug/L	50.00	79	40-140	4	20		
Benzo(a)pyrene	43.2	10.0	ug/L	50.00	86	40-140	6	20		
Benzo(b)fluoranthene	38.8	5.0	ug/L	50.00	78	40-140	7	20		
Benzo(g,h,i)perylene	35.0	10.0	ug/L	50.00	70	40-140	5	20		
Benzo(k)fluoranthene	39.0	10.0	ug/L	50.00	78	40-140	2	20		
C11-C22 Unadjusted Aromatics1	719	100	ug/L	850.0	85	40-140	4	25		
Chrysene	39.4	10.0	ug/L	50.00	79	40-140	5	20		
Dibenz(a,h)Anthracene	38.6	5.0	ug/L	50.00	77	40-140	6	20		
Fluoranthene	41.1	10.0	ug/L	50.00	82	40-140	5	20		
Fluorene	38.2	5.0	ug/L	50.00	76	40-140	4	20		
Indeno(1,2,3-cd)Pyrene	35.9	5.0	ug/L	50.00	72	40-140	2	20		
Naphthalene	30.4	10.0	ug/L	50.00	61	40-140	0.8	20		
Phenanthrene	39.2	5.0	ug/L	50.00	78	40-140	4	20		
Pyrene	40.2	5.0	ug/L	50.00	80	40-140	4	20		
<i>Surrogate: 2-Bromonaphthalene</i>	<b>39.5</b>		ug/L	<b>50.00</b>	<b>79</b>	<b>40-140</b>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<b>40.8</b>		ug/L	<b>50.00</b>	<b>82</b>	<b>40-140</b>				
<i>Surrogate: O-Terphenyl</i>	<b>53.8</b>		ug/L	<b>50.00</b>	<b>108</b>	<b>40-140</b>				
<b>LCS Dup</b>										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
Client Project ID: Hardy School

ESS Laboratory Work Order: 24L0130

**Notes and Definitions**

Z-06	pH <= 2
U	Analyte included in the analysis, but not detected
S-	Surrogate recovery(ies) below lower control limit (S-).
CD-	Continuing Calibration %Diff/Drift is below control limit (CD-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
Client Project ID: Hardy School

ESS Laboratory Work Order: 24L0130

**ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS**

**ENVIRONMENTAL**

Rhode Island Potable and Non Potable Water: LAI00179  
<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750  
[http://www.ct.gov/dph/lib/dph/environmental\\_health/environmental\\_laboratories/pdf/OutofStateCommercialLaboratories.pdf](http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf)

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002  
<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002  
<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424  
<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313  
<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006  
[http://datamine2.state.nj.us/DEP\\_OPRA/OpraMain/pi\\_main?mode=pi\\_by\\_site&sort\\_order=PI\\_NAMEA&Select+a+Site:=58715](http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715)

Pennsylvania: 68-01752  
<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

# ESS Laboratory Sample and Cooler Receipt Checklist

Client: Clean Harbors - MA/RI - ML

ESS Project ID: 24L0130

Shipped/Delivered Via: ESS Courier

Date Received: 12/4/2024

Project Due Date: 12/11/2024

Days for Project: 5 Day

1. Air bill manifest present?	<input type="checkbox"/> No	6. Does COC match bottles?	<input type="checkbox"/> Yes
Air No.: <u>NA</u>			
2. Were custody seals present?	<input type="checkbox"/> No	7. Is COC complete and correct?	<input type="checkbox"/> Yes
3. Is radiation count <100 CPM?	<input type="checkbox"/> Yes	8. Were samples received intact?	<input type="checkbox"/> Yes
4. Is a Cooler Present?	<input type="checkbox"/> Yes	9. Were labs informed about <u>short holds &amp; rushes?</u>	<input type="checkbox"/> Yes / No / NA <u>Yes</u>
Temp: <u>2.5</u>	Iced with: <u>Ice</u>	10. Were any analyses received outside of hold time?	<input type="checkbox"/> Yes / No <u>Yes</u>
5. Was COC signed and dated by client?	<input type="checkbox"/> Yes		

11. Any Subcontracting needed?	<input type="checkbox"/> Yes / <u>No</u>	12. Were VOAs received?	<input type="checkbox"/> Yes / <u>No</u>
ESS Sample IDs:		a. Air bubbles in aqueous VOAs?	<input type="checkbox"/> Yes / <u>No</u>
Analysis:		b. Does methanol cover soil completely?	<input type="checkbox"/> Yes / <u>No</u> / NA
TAT:			<u>Yes</u> / <u>No</u> <u>Yes</u> / <u>No</u> <u>Yes</u> / <u>No</u> / <u>NA</u>
13. Are the samples properly preserved?	<input type="checkbox"/> Yes / <u>No</u>	Date:	<input type="checkbox"/> Time: _____ By/Acid Lot#:
a. If metals preserved upon receipt:			<input type="checkbox"/> Yes / <u>No</u> To Be Lab Filtered
b. If dissolved metals are requested, are they:	<input type="checkbox"/> Yes / <u>No</u> Field Filtered	Date:	<input type="checkbox"/> Time: _____ By: _____
c. Low Level VOA vials frozen:			

## Sample Receiving Notes:

Added T3 as Sample 1a.

14. Was there a need to contact Project Manager?	<input type="checkbox"/> Yes / <u>No</u>		
a. Was there a need to contact the client?	<input type="checkbox"/> Yes / <u>No</u>		
Who was contacted? _____	Date: _____	Time: _____	By: _____

Resolution: \_\_\_\_\_

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	622086	Yes	N/A	Yes	1L Amber	HCl	
1	622087	Yes	N/A	Yes	1L Amber	HCl	
1	622122	Yes	No	Yes	VOA Vial	HCl	
1	622123	Yes	No	Yes	VOA Vial	HCl	
1	622124	Yes	No	Yes	VOA Vial	HCl	
2	622088	Yes	N/A	Yes	1L Amber	HCl	
2	622089	Yes	N/A	Yes	1L Amber	HCl	
2	622125	Yes	No	Yes	VOA Vial	HCl	
2	622126	Yes	No	Yes	VOA Vial	HCl	
2	622127	Yes	No	Yes	VOA Vial	HCl	
3	622090	Yes	N/A	Yes	1L Amber	HCl	
3	622091	Yes	N/A	Yes	1L Amber	HCl	
3	622128	Yes	No	Yes	VOA Vial	HCl	
3	622129	Yes	No	Yes	VOA Vial	HCl	
3	622130	Yes	No	Yes	VOA Vial	HCl	
4	622092	Yes	N/A	Yes	1L Amber	HCl	
4	622093	Yes	N/A	Yes	1L Amber	HCl	
4	622131	Yes	No	Yes	VOA Vial	HCl	
4	622132	Yes	No	Yes	VOA Vial	HCl	
4	622133	Yes	No	Yes	VOA Vial	HCl	

### ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Clean Harbors - MA/RI - ML				ESS Project ID:	24L0130
					Date Received:	12/4/2024
16	622117	Yes	N/A	Yes	1L Amber	HCI
16	622167	Yes	No	Yes	VOA Vial	HCI
16	622168	Yes	No	Yes	VOA Vial	HCI
16	622169	Yes	No	Yes	VOA Vial	HCI
17	622118	Yes	N/A	Yes	1L Amber	HCI
17	622119	Yes	N/A	Yes	1L Amber	HCI
17	622170	Yes	No	Yes	VOA Vial	HCI
17	622171	Yes	No	Yes	VOA Vial	HCI
17	622172	Yes	No	Yes	VOA Vial	HCI
18	622120	Yes	N/A	Yes	1L Amber	HCI
18	622121	Yes	N/A	Yes	1L Amber	HCI
18	622173	Yes	No	Yes	VOA Vial	HCI
18	622174	Yes	No	Yes	VOA Vial	HCI
18	622175	Yes	No	Yes	VOA Vial	HCI
19	622416	Yes	No	Yes	VOA Vial	HCI

#### 2nd Review

Were all containers scanned into storage/lab?

Initials TJ

(Yes) No

Yes / No / NA

Are barcode labels on correct containers?

Are all Flashpoint stickers attached/container ID # circled?

Are all Hex Chrome stickers attached?

Are all QC stickers attached?

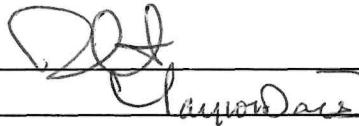
Are VOA stickers attached if bubbles noted?

Completed

By:

Reviewed

By:



Date & Time:

12/4/24 1907

Date & Time:

12/4/24 1920



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## CHAIN OF CUSTODY

ESS Lab #	24L0130	Page	1 of 2
ELECTRONIC DELIVERABLES (Final Reports are PDF)			
<input checked="" type="checkbox"/> Limit Checker	<input type="checkbox"/> State Forms	<input type="checkbox"/> EQuIS	
<input checked="" type="checkbox"/> Excel	<input type="checkbox"/> Hard Copy	<input type="checkbox"/> Enviro Data	
<input type="checkbox"/> CLP-Like Package	<input checked="" type="checkbox"/> Other (Specify) → .pdf		

CLIENT INFORMATION				PROJECT INFORMATION				REQUESTED ANALYSES				Total Number of Bottles	
Client: CHES Address: 101 Philip Dr. Novell, MA. Phone: (734) 626-7846 Email Distribution List: taylor.daniel1@cleanharbors.com harding.kyle@cleanharbors.com				Project Name: Hardy School Project Location: 818 Worcester St. MA Project Number: 2403152545 Project Manager: Daniel Taylor Bill to: Clean Harbors PO#: _____ Quote#:				Client acknowledges that sampling is compliant with all EPA / State regulatory programs					
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID				EPH	VPH w/ Diesel Target			
1	12/02	11:15	GW		mw-8				X	X			
2		10:50			mw-10				X	X			
3		10:20			mw-11				X	X			
4		12:10			mw-12				X	X			
5		12:15			mw-13				X	X			
6		11:40			mw-14				X	X			
7		15:45			mw-15				X	X			
8		11:20			mw-16				X	X			
9		15:00			mw-17				X	X			
10		12:40			mw-18				X	X			
Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial								AG	V				
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*								G	7				
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAc, NaOH 9-NH4Cl 10-DI H2O 11-Other*								2	2				
Sampled by: Kyle Harding & Jack Pesko					Chain needs to be filled out neatly and completely for on time delivery.								
Laboratory Use Only		Comments: *Please specify "Other" preservative and containers types in this space -Samples put in cooler w/ ice → Refrigerator → carrier -Expected to be "Hot Samples": mw-11/mw-22/mw-23						All samples submitted are subject to ESS Laboratory's payment terms and conditions.				Dissolved Filtration	
Cooler Temperature (°C): 2.5 1C												Lab Filter	
Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)	Dissolved Filtration		Lab Filter			
Kyle Harding	12/02/24	16:45	Samples Fridge	Kyle Harding	12/04/24	13:44	✓	X		X			
Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)	Dissolved Filtration		Lab Filter			
Kyle Harding	12/04/24	10:45	✓					X		X			



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## **CHAIN OF CUSTODY**

**ESS Lab #** 24LB130

Page 32 of 2

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Turn Time	<input type="checkbox"/> >5	<input checked="" type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> Same Day	ELECTRONIC DELIVERABLES (Final Reports are PDF)			
Regulatory State:	MA MCP		Criteria: S1/GW-1					<input checked="" type="checkbox"/> Limit Checker	<input type="checkbox"/> State Forms	<input type="checkbox"/> EQuIS	
Is this project for any of the following?:								<input checked="" type="checkbox"/> Excel	<input type="checkbox"/> Hard Copy	<input type="checkbox"/> Enviro Data	
<input type="checkbox"/> CT RCP		<input checked="" type="checkbox"/> MA MCP	<input type="checkbox"/> RGP	<input type="checkbox"/> Permit	<input type="checkbox"/> 401 WQ			<input type="checkbox"/> CLP-Like Package	<input checked="" type="checkbox"/> Other (Specify) → .pdf		
PROJECT INFORMATION								REQUESTED ANALYSES			
Project Name:	Hardy School		Client acknowledges that sampling is compliant with all EPA / State regulatory programs	EPA 1W Diesel Tare	VPH 1W Diesel Tare						
Project Location:	818 Worcester St. MA										
Project Number:	2403152545										
Project Manager:	Daniel Taylor										
Bill to:	Clean Harbors										
PO#:											
Quote#:											
Sample Matrix	Sample ID							Total Number of Bottles			
	mw-19							X	X		
	mw-20							X	X		
	mw-21							X	X		
	mw-22							X	X		
	mw-23							X	X		
	mw-24							X	X		
	mw-25							X	X		
	mw-26							X	X		
	Trip Blank - JA 12/10/2024							X			
Amber Glass	B-BOD Bottle	C-Cubitainer	J-Jar	O-Other	P-Poly	S-Sterile	V-Vial	AG	✓		
3-250 mL	4-300 mL	5-500 mL	6-1L	7-VOA	8-2 oz	9-4 oz	10-8 oz	11-Other*	G	7	
2SO4	4-HNO3	5-NaOH	6-Methanol	7-Na2S2O3	8-ZnAcet, NaOH	9-NH4Cl	10-DI H2O	11-Other*	2	2	
ing B JACK PESKO								Chain needs to be filled out neatly and completely for on time delivery.			
* Please specify "Other" preservative and containers types in this space								All samples submitted are subject to ESS Laboratory's payment terms and conditions.		Dissolved Filtration	
Page 1 comments										<input type="checkbox"/> Lab Filter	
Time	Received by (Signature)		Relinquished by (Signature)		Date	Time	Received by (Signature)				
16:45	Samples Fridge		Kylie Hardie		12/04/24	13:44	John Pesko 13:44				
Time	Received by (Signature)		Relinquished by (Signature)		Date	Time	Received by (Signature)				
16:18	D. J.										

**CERTIFICATE OF ANALYSIS**

Daniel Taylor  
Clean Harbors  
42 Longwater Drive  
Norwell, MA 02061-9149

**RE: Hardy School (2403152545)**  
**ESS Laboratory Work Order Number: 25B0574**

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard  
Laboratory Director

**REVIEWED**

*By ESS Laboratory at 6:45 pm, Feb 26, 2025*

**Analytical Summary**

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
Client Project ID: Hardy School

ESS Laboratory Work Order: 25B0574

**SAMPLE RECEIPT**

The following samples were received on February 20, 2025 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

**Question I: All samples for EPH were analyzed for a subset of the required MCP list per the client's request.**

Lab Number	Sample Name	Matrix	Analysis
25B0574-01	MW-10	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
25B0574-02	MW-20	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
25B0574-03	MW-19	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
25B0574-04	MW-12	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
25B0574-05	MW-18	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
25B0574-06	MW-26	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
25B0574-07	MW-24	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
25B0574-08	MW-17	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
25B0574-09	MW-25	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
25B0574-10	MW-16	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
25B0574-11	MW-11	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1
25B0574-12	MW-23	Ground Water	EPH8270, MADEP-EPH, MA-VPH-2.1

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
Client Project ID: Hardy School

ESS Laboratory Work Order: 25B0574

**PROJECT NARRATIVE**

**MADEP-VPH Volatile Petroleum Hydrocarbon**

25B0574-12

Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).

2,5-Dibromotoluene - FID (148% @ 70-130%), 2,5-Dibromotoluene - PID (136% @ 70-130%)

No other observations noted.

End of Project Narrative.

**DATA USABILITY LINKS**

*To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.*

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
Client Project ID: Hardy School

ESS Laboratory Work Order: 25B0574

**CURRENT SW-846 METHODOLOGY VERSIONS****Analytical Methods**

1010A - Flashpoint  
6010D - ICP  
6020B - ICP MS  
7010 - Graphite Furnace  
7196A - Hexavalent Chromium  
7470A - Aqueous Mercury  
7471B - Solid Mercury  
8011 - EDB/DBCP/TCP  
8015C - GRO/DRO  
8081B - Pesticides  
8082A - PCB  
8100M - TPH  
8151A - Herbicides  
8260D - VOA  
8270E - SVOA  
8270E SIM - SVOA Low Level  
9014 - Cyanide  
9038 - Sulfate  
9040C - Aqueous pH  
9045D - Solid pH (Corrosivity)  
9050A - Specific Conductance  
9056A - Anions (IC)  
9060A - TOC  
9095B - Paint Filter  
MADEP 19-2.1 - EPH  
MADEP 18-2.1 - VPH

**Prep Methods**

3005A - Aqueous ICP Digestion  
3020A - Aqueous Graphite Furnace / ICP MS Digestion  
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion  
3060A - Solid Hexavalent Chromium Digestion  
3510C - Separatory Funnel Extraction  
3520C - Liquid / Liquid Extraction  
3540C - Manual Soxhlet Extraction  
3546 - Microwave Extraction  
3580A - Waste Dilution  
5030B - Aqueous Purge and Trap  
5030C - Aqueous Purge and Trap  
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
Client Project ID: Hardy School

ESS Laboratory Work Order: 25B0574

**MassDEP Analytical Protocol Certification Form**

MADEP RTN: \_\_\_\_\_

This form provides certification for the following data set: **25B0574-01 through 25B0574-12**

Matrices:  Ground Water/Surface Water       Soil/Sediment       Drinking Water       Air       Other: \_\_\_\_\_

**CAM Protocol** (check all that apply below):

- |                              |                               |   |                                |   |                                    |
|------------------------------|-------------------------------|---|--------------------------------|---|------------------------------------|
| ( ) 8260 VOC<br>CAM II A     | ( ) 7470/7471 Hg<br>CAM III B | (x) MassDEP VPH<br>(GC/PID/FID)<br>CAM IV A | ( ) 8082 PCB<br>CAM V A        | ( ) 9014 Total<br>Cyanide/PAC<br>CAM VI A | ( ) 6860 Perchlorate<br>CAM VIII B |
| ( ) 8270 SVOC<br>CAM II B    | ( ) 7010 Metals<br>CAM III C  | ( ) MassDEP VPH<br>(GC/MS)<br>CAM IV C      | ( ) 8081 Pesticides<br>CAM V B | ( ) 7196 Hex Cr<br>CAM VI B               | ( ) MassDEP APH<br>CAM IX A        |
| ( ) 6010 Metals<br>CAM III A | ( ) 6020 Metals<br>CAM III D  | (x) MassDEP EPH<br>CAM IV B                 | ( ) 8151 Herbicides<br>CAM V C | ( ) Explosives<br>CAM VIII A              | ( ) TO-15 VOC<br>CAM IX B          |

**Affirmative responses to questions A through F are required for "Presumptive Certainty" status**

- A Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? Yes (x) No ( )
- B Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? Yes (x) No ( )
- C Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? Yes (x) No ( )
- D Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes (x) No ( )
- E VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).  
b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? Yes ( ) No ( )
- F Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? Yes (x) No ( )

**Responses to Questions G, H and I below are required for "Presumptive Certainty" status**

- G Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? Yes (x) No ( )\*
- Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**
- H Were **all** QC performance standards specified in the CAM protocol(s) achieved? Yes ( ) No (x)\*
- I Were results reported for the complete analyte list specified in the selected CAM protocol(s)? Yes ( ) No (x)\*

**\*All negative responses must be addressed in an attached laboratory narrative.**

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

Signature: \_\_\_\_\_  
Printed Name: Laurel Stoddard

Date: February 26, 2025  
Position: Laboratory Director

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-10

Date Sampled: 02/18/25 10:50

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 25B0574

ESS Laboratory Sample ID: 25B0574-01

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	02/21/25 7:30	D5B0341	DB52026
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	02/21/25 7:30	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	02/21/25 7:30	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 7:30	D5B0341	DB52026
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 7:30	D5B0341	DB52026
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 7:30	D5B0341	DB52026
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 7:30	D5B0341	DB52026
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 7:30	D5B0341	DB52026
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 7:30	D5B0341	DB52026
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	02/21/25 7:30	D5B0341	DB52026
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DB52026

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	125 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	127 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-10  
 Date Sampled: 02/18/25 10:50  
 Percent Solids: N/A  
 Initial Volume: 1030ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-01  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 2/21/25 9:30

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (97)	---	MADEP-EPH	---	1	JDN	02/24/25 15:43	D5B0393	DB52101
C19-C36 Aliphatics1	ND (97)	---	MADEP-EPH	---	1	JDN	02/24/25 15:43	D5B0393	DB52101
C11-C22 Unadjusted Aromatics1	ND (97.1)	---	EPH8270	---	1	DMC	02/22/25 17:14	D5B0355	DB52101
C11-C22 Aromatics1,2	ND (97.1)	---	EPH8270	---		DMC	02/22/25 17:14	---	[CALC]
2-Methylnaphthalene	ND (4.9)	---	EPH8270	---	1	DMC	02/22/25 17:14	D5B0355	DB52101
Acenaphthene	ND (4.9)	---	EPH8270	---	1	DMC	02/22/25 17:14	D5B0355	DB52101
Naphthalene	ND (9.7)	---	EPH8270	---	1	DMC	02/22/25 17:14	D5B0355	DB52101
Phenanthrene	ND (4.9)	---	EPH8270	---	1	DMC	02/22/25 17:14	D5B0355	DB52101
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>				<b>JDN</b>		<b>DB52101</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	54 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	76 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	94 %		40-140
<i>Surrogate: O-Terphenyl</i>	84 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-20  
 Date Sampled: 02/18/25 11:00  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-02  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	02/21/25 8:04	D5B0341	DB52026
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	02/21/25 8:04	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	02/21/25 8:04	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 8:04	D5B0341	DB52026
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 8:04	D5B0341	DB52026
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 8:04	D5B0341	DB52026
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 8:04	D5B0341	DB52026
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 8:04	D5B0341	DB52026
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 8:04	D5B0341	DB52026
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	02/21/25 8:04	D5B0341	DB52026
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DB52026

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	113 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	113 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-20  
 Date Sampled: 02/18/25 11:00  
 Percent Solids: N/A  
 Initial Volume: 1030ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-02  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 2/21/25 9:30

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (97)	---	MADEP-EPH	---	1	JDN	02/24/25 16:17	D5B0393	DB52101
C19-C36 Aliphatics1	ND (97)	---	MADEP-EPH	---	1	JDN	02/24/25 16:17	D5B0393	DB52101
C11-C22 Unadjusted Aromatics1	ND (97.1)	---	EPH8270	---	1	DMC	02/22/25 17:49	D5B0355	DB52101
C11-C22 Aromatics1,2	ND (97.1)	---	EPH8270	---		DMC	02/22/25 17:49	---	[CALC]
2-Methylnaphthalene	ND (4.9)	---	EPH8270	---	1	DMC	02/22/25 17:49	D5B0355	DB52101
Acenaphthene	ND (4.9)	---	EPH8270	---	1	DMC	02/22/25 17:49	D5B0355	DB52101
Naphthalene	ND (9.7)	---	EPH8270	---	1	DMC	02/22/25 17:49	D5B0355	DB52101
Phenanthrene	ND (4.9)	---	EPH8270	---	1	DMC	02/22/25 17:49	D5B0355	DB52101
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>				<b>JDN</b>		<b>DB52101</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	83 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	89 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	94 %		40-140
<i>Surrogate: O-Terphenyl</i>	89 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-19  
 Date Sampled: 02/18/25 11:10  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-03  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
<b>C9-C10 Aromatics</b>	<b>311 (100)</b>	---	MA-VPH-2.1	---	1	02/21/25 19:03	D5B0366	DB52126
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	02/21/25 19:03	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	02/21/25 19:03	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 19:03	D5B0366	DB52126
<b>Ethylbenzene</b>	<b>6.6 (5.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 19:03	D5B0366	DB52126
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 19:03	D5B0366	DB52126
<b>Naphthalene</b>	<b>12.3 (5.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 19:03	D5B0366	DB52126
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 19:03	D5B0366	DB52126
<b>Xylene O</b>	<b>31.0 (5.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 19:03	D5B0366	DB52126
<b>Xylene P,M</b>	<b>24.0 (10.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 19:03	D5B0366	DB52126
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DB52126

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	119 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	119 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-19  
 Date Sampled: 02/18/25 11:10  
 Percent Solids: N/A  
 Initial Volume: 1070ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-03  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 2/21/25 9:30

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (93)	---	MADEP-EPH	---	1	JDN	02/24/25 16:52	D5B0393	DB52101
C19-C36 Aliphatics1	ND (93)	---	MADEP-EPH	---	1	JDN	02/24/25 16:52	D5B0393	DB52101
C11-C22 Unadjusted Aromatics1	ND (93.5)	---	EPH8270	---	1	DMC	02/22/25 18:25	D5B0355	DB52101
C11-C22 Aromatics1,2	ND (93.5)	---	EPH8270	---		DMC	02/22/25 18:25	---	[CALC]
2-Methylnaphthalene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 18:25	D5B0355	DB52101
Acenaphthene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 18:25	D5B0355	DB52101
Naphthalene	ND (9.3)	---	EPH8270	---	1	DMC	02/22/25 18:25	D5B0355	DB52101
Phenanthrene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 18:25	D5B0355	DB52101
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>				<b>JDN</b>		<b>DB52101</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	108 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	85 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	91 %		40-140
<i>Surrogate: O-Terphenyl</i>	85 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-12  
 Date Sampled: 02/18/25 11:25  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-04  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
<b>C9-C10 Aromatics</b>	<b>200 (100)</b>	---	MA-VPH-2.1	---	1	02/21/25 8:39	D5B0341	DB52026
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	02/21/25 8:39	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	02/21/25 8:39	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 8:39	D5B0341	DB52026
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 8:39	D5B0341	DB52026
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 8:39	D5B0341	DB52026
<b>Naphthalene</b>	<b>20.1 (5.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 8:39	D5B0341	DB52026
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 8:39	D5B0341	DB52026
<b>Xylene O</b>	<b>13.4 (5.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 8:39	D5B0341	DB52026
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	02/21/25 8:39	D5B0341	DB52026
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DB52026

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	114 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	114 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-12  
 Date Sampled: 02/18/25 11:25  
 Percent Solids: N/A  
 Initial Volume: 1070ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-04  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 2/21/25 9:30

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (93)	---	MADEP-EPH	---	1	JDN	02/24/25 17:26	D5B0393	DB52101
C19-C36 Aliphatics1	ND (93)	---	MADEP-EPH	---	1	JDN	02/24/25 17:26	D5B0393	DB52101
<b>C11-C22 Unadjusted Aromatics1</b>	<b>214 (93.5)</b>	---	EPH8270	---	1	DMC	02/22/25 19:01	D5B0355	DB52101
<b>C11-C22 Aromatics1,2</b>	<b>203 (93.5)</b>	---	EPH8270	---		DMC	02/22/25 19:01	---	[CALC]
<b>2-Methylnaphthalene</b>	<b>11.2 (4.7)</b>	---	EPH8270	---	1	DMC	02/22/25 19:01	D5B0355	DB52101
Acenaphthene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 19:01	D5B0355	DB52101
Naphthalene	ND (9.3)	---	EPH8270	---	1	DMC	02/22/25 19:01	D5B0355	DB52101
Phenanthrene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 19:01	D5B0355	DB52101
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MADEP-EPH			JDN			DB52101

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	105 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	94 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	95 %		40-140
<i>Surrogate: O-Terphenyl</i>	86 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-18

Date Sampled: 02/18/25 11:30

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 25B0574

ESS Laboratory Sample ID: 25B0574-05

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	02/21/25 13:21	D5B0366	DB52126
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	02/21/25 13:21	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	02/21/25 13:21	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 13:21	D5B0366	DB52126
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 13:21	D5B0366	DB52126
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 13:21	D5B0366	DB52126
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 13:21	D5B0366	DB52126
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 13:21	D5B0366	DB52126
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 13:21	D5B0366	DB52126
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	02/21/25 13:21	D5B0366	DB52126
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DB52126

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	111 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	112 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-18  
 Date Sampled: 02/18/25 11:30  
 Percent Solids: N/A  
 Initial Volume: 1060ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-05  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 2/21/25 9:30

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (94)	---	MADEP-EPH	---	1	JDN	02/24/25 18:01	D5B0393	DB52101
C19-C36 Aliphatics1	ND (94)	---	MADEP-EPH	---	1	JDN	02/24/25 18:01	D5B0393	DB52101
C11-C22 Unadjusted Aromatics1	ND (94.3)	---	EPH8270	---	1	DMC	02/22/25 19:36	D5B0355	DB52101
C11-C22 Aromatics1,2	ND (94.3)	---	EPH8270	---		DMC	02/22/25 19:36	---	[CALC]
2-Methylnaphthalene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 19:36	D5B0355	DB52101
Acenaphthene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 19:36	D5B0355	DB52101
Naphthalene	ND (9.4)	---	EPH8270	---	1	DMC	02/22/25 19:36	D5B0355	DB52101
Phenanthrene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 19:36	D5B0355	DB52101
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>				<b>JDN</b>		<b>DB52101</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	62 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	86 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	96 %		40-140
<i>Surrogate: O-Terphenyl</i>	84 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-26  
 Date Sampled: 02/18/25 11:50  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-06  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	02/21/25 13:55	D5B0366	DB52126
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	02/21/25 13:55	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	02/21/25 13:55	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 13:55	D5B0366	DB52126
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 13:55	D5B0366	DB52126
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 13:55	D5B0366	DB52126
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 13:55	D5B0366	DB52126
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 13:55	D5B0366	DB52126
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 13:55	D5B0366	DB52126
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	02/21/25 13:55	D5B0366	DB52126
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DB52126

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	109 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	111 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-26  
 Date Sampled: 02/18/25 11:50  
 Percent Solids: N/A  
 Initial Volume: 1070ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-06  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 2/21/25 9:30

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (93)	---	MADEP-EPH	---	1	JDN	02/24/25 18:35	D5B0393	DB52101
C19-C36 Aliphatics1	ND (93)	---	MADEP-EPH	---	1	JDN	02/24/25 18:35	D5B0393	DB52101
C11-C22 Unadjusted Aromatics1	ND (93.5)	---	EPH8270	---	1	DMC	02/22/25 20:12	D5B0355	DB52101
C11-C22 Aromatics1,2	ND (93.5)	---	EPH8270	---		DMC	02/22/25 20:12	---	[CALC]
2-Methylnaphthalene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 20:12	D5B0355	DB52101
Acenaphthene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 20:12	D5B0355	DB52101
Naphthalene	ND (9.3)	---	EPH8270	---	1	DMC	02/22/25 20:12	D5B0355	DB52101
Phenanthrene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 20:12	D5B0355	DB52101
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>				<b>JDN</b>		<b>DB52101</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	74 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	86 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	93 %		40-140
<i>Surrogate: O-Terphenyl</i>	87 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-24  
 Date Sampled: 02/18/25 11:55  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-07  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	02/21/25 14:30	D5B0366	DB52126
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	02/21/25 14:30	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	02/21/25 14:30	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 14:30	D5B0366	DB52126
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 14:30	D5B0366	DB52126
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 14:30	D5B0366	DB52126
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 14:30	D5B0366	DB52126
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 14:30	D5B0366	DB52126
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 14:30	D5B0366	DB52126
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	02/21/25 14:30	D5B0366	DB52126
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DB52126

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	108 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	112 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-24  
 Date Sampled: 02/18/25 11:55  
 Percent Solids: N/A  
 Initial Volume: 1020ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-07  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 2/21/25 9:30

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (98)	---	MADEP-EPH	---	1	JDN	02/24/25 19:10	D5B0393	DB52101
C19-C36 Aliphatics1	ND (98)	---	MADEP-EPH	---	1	JDN	02/24/25 19:10	D5B0393	DB52101
C11-C22 Unadjusted Aromatics1	ND (98.0)	---	EPH8270	---	1	DMC	02/22/25 20:47	D5B0355	DB52101
C11-C22 Aromatics1,2	ND (98.0)	---	EPH8270	---		DMC	02/22/25 20:47	---	[CALC]
2-Methylnaphthalene	ND (4.9)	---	EPH8270	---	1	DMC	02/22/25 20:47	D5B0355	DB52101
Acenaphthene	ND (4.9)	---	EPH8270	---	1	DMC	02/22/25 20:47	D5B0355	DB52101
Naphthalene	ND (9.8)	---	EPH8270	---	1	DMC	02/22/25 20:47	D5B0355	DB52101
Phenanthrene	ND (4.9)	---	EPH8270	---	1	DMC	02/22/25 20:47	D5B0355	DB52101
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>				<b>JDN</b>		<b>DB52101</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	70 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	90 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	91 %		40-140
<i>Surrogate: O-Terphenyl</i>	88 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-17  
 Date Sampled: 02/18/25 12:45  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-08  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
<b>C9-C10 Aromatics</b>	<b>599 (100)</b>	---	MA-VPH-2.1	---	1	02/21/25 19:38	D5B0366	DB52126
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	02/21/25 19:38	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	02/21/25 19:38	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 19:38	D5B0366	DB52126
<b>Ethylbenzene</b>	<b>15.5 (5.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 19:38	D5B0366	DB52126
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 19:38	D5B0366	DB52126
<b>Naphthalene</b>	<b>27.0 (5.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 19:38	D5B0366	DB52126
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 19:38	D5B0366	DB52126
<b>Xylene O</b>	<b>119 (5.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 19:38	D5B0366	DB52126
<b>Xylene P,M</b>	<b>61.9 (10.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 19:38	D5B0366	DB52126
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DB52126

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	116 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	119 %		70-130

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-17  
 Date Sampled: 02/18/25 12:45  
 Percent Solids: N/A  
 Initial Volume: 1030ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-08  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 2/21/25 9:30

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (97)	---	MADEP-EPH	---	1	JDN	02/24/25 13:59	D5B0394	DB52101
C19-C36 Aliphatics1	ND (97)	---	MADEP-EPH	---	1	JDN	02/24/25 13:59	D5B0394	DB52101
<b>C11-C22 Unadjusted Aromatics1</b>	<b>194 (97.1)</b>	---	EPH8270	---	1	DMC	02/22/25 21:23	D5B0355	DB52101
<b>C11-C22 Aromatics1,2</b>	<b>166 (97.1)</b>	---	EPH8270	---		DMC	02/22/25 21:23	---	[CALC]
<b>2-Methylnaphthalene</b>	<b>15.3 (4.9)</b>	---	EPH8270	---	1	DMC	02/22/25 21:23	D5B0355	DB52101
Acenaphthene	ND (4.9)	---	EPH8270	---	1	DMC	02/22/25 21:23	D5B0355	DB52101
<b>Naphthalene</b>	<b>12.9 (9.7)</b>	---	EPH8270	---	1	DMC	02/22/25 21:23	D5B0355	DB52101
Phenanthrene	ND (4.9)	---	EPH8270	---	1	DMC	02/22/25 21:23	D5B0355	DB52101
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MADEP-EPH				JDN		DB52101

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	70 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	89 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	91 %		40-140
<i>Surrogate: O-Terphenyl</i>	80 %		40-140

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-25

Date Sampled: 02/18/25 12:55

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 25B0574

ESS Laboratory Sample ID: 25B0574-09

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	02/21/25 15:04	D5B0366	DB52126
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	02/21/25 15:04	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	02/21/25 15:04	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 15:04	D5B0366	DB52126
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 15:04	D5B0366	DB52126
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 15:04	D5B0366	DB52126
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 15:04	D5B0366	DB52126
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 15:04	D5B0366	DB52126
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 15:04	D5B0366	DB52126
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	02/21/25 15:04	D5B0366	DB52126
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DB52126

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	102 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	103 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-25  
 Date Sampled: 02/18/25 12:55  
 Percent Solids: N/A  
 Initial Volume: 1060ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-09  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 2/21/25 9:30

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (94)	---	MADEP-EPH	---	1	JDN	02/24/25 14:34	D5B0394	DB52101
C19-C36 Aliphatics1	ND (94)	---	MADEP-EPH	---	1	JDN	02/24/25 14:34	D5B0394	DB52101
C11-C22 Unadjusted Aromatics1	ND (94.3)	---	EPH8270	---	1	DMC	02/22/25 21:58	D5B0355	DB52101
C11-C22 Aromatics1,2	ND (94.3)	---	EPH8270	---		DMC	02/22/25 21:58	---	[CALC]
2-Methylnaphthalene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 21:58	D5B0355	DB52101
Acenaphthene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 21:58	D5B0355	DB52101
Naphthalene	ND (9.4)	---	EPH8270	---	1	DMC	02/22/25 21:58	D5B0355	DB52101
Phenanthrene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 21:58	D5B0355	DB52101
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>				<b>JDN</b>		<b>DB52101</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	64 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	86 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	96 %		40-140
<i>Surrogate: O-Terphenyl</i>	80 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-16  
 Date Sampled: 02/18/25 14:25  
 Percent Solids: N/A  
 Initial Volume: 5ml  
 Final Volume: 5ml  
 Extraction Method: 5030B  
 Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-10  
 Sample Matrix: Ground Water  
 Units: ug/L  
 Analyst: MEK  
 Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	02/21/25 15:38	D5B0366	DB52126
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	02/21/25 15:38	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	02/21/25 15:38	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 15:38	D5B0366	DB52126
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 15:38	D5B0366	DB52126
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 15:38	D5B0366	DB52126
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 15:38	D5B0366	DB52126
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 15:38	D5B0366	DB52126
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 15:38	D5B0366	DB52126
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	02/21/25 15:38	D5B0366	DB52126
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DB52126

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	110 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	112 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-16  
 Date Sampled: 02/18/25 14:25  
 Percent Solids: N/A  
 Initial Volume: 1050ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-10  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 2/21/25 9:30

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	02/24/25 15:08	D5B0394	DB52101
C19-C36 Aliphatics1	ND (95)	---	MADEP-EPH	---	1	JDN	02/24/25 15:08	D5B0394	DB52101
C11-C22 Unadjusted Aromatics1	ND (95.2)	---	EPH8270	---	1	DMC	02/22/25 22:34	D5B0355	DB52101
C11-C22 Aromatics1,2	ND (95.2)	---	EPH8270	---		DMC	02/22/25 22:34	---	[CALC]
2-Methylnaphthalene	ND (4.8)	---	EPH8270	---	1	DMC	02/22/25 22:34	D5B0355	DB52101
Acenaphthene	ND (4.8)	---	EPH8270	---	1	DMC	02/22/25 22:34	D5B0355	DB52101
Naphthalene	ND (9.5)	---	EPH8270	---	1	DMC	02/22/25 22:34	D5B0355	DB52101
Phenanthrene	ND (4.8)	---	EPH8270	---	1	DMC	02/22/25 22:34	D5B0355	DB52101
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>				<b>JDN</b>		<b>DB52101</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	77 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	88 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	95 %		40-140
<i>Surrogate: O-Terphenyl</i>	85 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-11

Date Sampled: 02/18/25 15:30

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 25B0574

ESS Laboratory Sample ID: 25B0574-11

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C10 Aromatics	ND (100)	---	MA-VPH-2.1	---	1	02/21/25 16:12	D5B0366	DB52126
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	02/21/25 16:12	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	02/21/25 16:12	---	[CALC]
Benzene	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 16:12	D5B0366	DB52126
Ethylbenzene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 16:12	D5B0366	DB52126
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 16:12	D5B0366	DB52126
Naphthalene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 16:12	D5B0366	DB52126
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 16:12	D5B0366	DB52126
Xylene O	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 16:12	D5B0366	DB52126
Xylene P,M	ND (10.0)	---	MA-VPH-2.1	---	1	02/21/25 16:12	D5B0366	DB52126
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DB52126

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	115 %		70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	116 %		70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-11  
 Date Sampled: 02/18/25 15:30  
 Percent Solids: N/A  
 Initial Volume: 1070ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-11  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 2/21/25 9:30

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	ND (93)	---	MADEP-EPH	---	1	JDN	02/24/25 15:43	D5B0394	DB52101
C19-C36 Aliphatics1	ND (93)	---	MADEP-EPH	---	1	JDN	02/24/25 15:43	D5B0394	DB52101
C11-C22 Unadjusted Aromatics1	ND (93.5)	---	EPH8270	---	1	DMC	02/22/25 23:10	D5B0355	DB52101
C11-C22 Aromatics1,2	ND (93.5)	---	EPH8270	---		DMC	02/22/25 23:10	---	[CALC]
2-Methylnaphthalene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 23:10	D5B0355	DB52101
Acenaphthene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 23:10	D5B0355	DB52101
Naphthalene	ND (9.3)	---	EPH8270	---	1	DMC	02/22/25 23:10	D5B0355	DB52101
Phenanthrene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 23:10	D5B0355	DB52101
<b>Preservative:</b>	<b>pH &lt;= 2</b>		<b>MADEP-EPH</b>				<b>JDN</b>		<b>DB52101</b>

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	72 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	87 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	92 %		40-140
<i>Surrogate: O-Terphenyl</i>	82 %		40-140

*CERTIFICATE OF ANALYSIS*

Client Name: Clean Harbors

Client Project ID: Hardy School

Client Sample ID: MW-23

Date Sampled: 02/18/25 15:50

Percent Solids: N/A

Initial Volume: 5ml

Final Volume: 5ml

Extraction Method: 5030B

Column Type: Restek RTX-502.2 - 3 $\mu$  film thickness 0.53mm X 105m

ESS Laboratory Work Order: 25B0574

ESS Laboratory Sample ID: 25B0574-12

Sample Matrix: Ground Water

Units: ug/L

Analyst: MEK

Trap Type: Supelco K Vocarb 3000 Trap

**MADEP-VPH Volatile Petroleum Hydrocarbon**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
<b>C9-C10 Aromatics</b>	<b>559 (100)</b>	---	MA-VPH-2.1	---	1	02/21/25 20:12	D5B0366	DB52126
C5-C8 Aliphatics1,2	ND (158)	---	MA-VPH-2.1	---	1	02/21/25 20:12	---	[CALC]
C9-C12 Aliphatics2,3	ND (270)	---	MA-VPH-2.1	---	1	02/21/25 20:12	---	[CALC]
<b>Benzene</b>	<b>1.5 (1.5)</b>	---	MA-VPH-2.1	---	1	02/21/25 20:12	D5B0366	DB52126
<b>Ethylbenzene</b>	<b>8.2 (5.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 20:12	D5B0366	DB52126
Methyl tert-Butyl Ether	ND (1.5)	---	MA-VPH-2.1	---	1	02/21/25 20:12	D5B0366	DB52126
<b>Naphthalene</b>	<b>23.3 (5.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 20:12	D5B0366	DB52126
Toluene	ND (5.0)	---	MA-VPH-2.1	---	1	02/21/25 20:12	D5B0366	DB52126
<b>Xylene O</b>	<b>30.9 (5.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 20:12	D5B0366	DB52126
<b>Xylene P,M</b>	<b>29.1 (10.0)</b>	---	MA-VPH-2.1	---	1	02/21/25 20:12	D5B0366	DB52126
<b>Preservative:</b>	<b>pH &lt;= 2</b>		MA-VPH-2.1					DB52126

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	148 %	SM	70-130
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	136 %	SM	70-130

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School  
 Client Sample ID: MW-23  
 Date Sampled: 02/18/25 15:50  
 Percent Solids: N/A  
 Initial Volume: 1070ml  
 Final Volume: 1ml  
 Extraction Method: 3510C

ESS Laboratory Work Order: 25B0574  
 ESS Laboratory Sample ID: 25B0574-12  
 Sample Matrix: Ground Water  
 Units: ug/L

Prepared: 2/21/25 9:30

**MADEP-EPH Extractable Petroleum Hydrocarbons**

<b>Analyte</b>	<b>Results (MRL)</b>	<b>MDL</b>	<b>Method</b>	<b>Limit</b>	<b>DF</b>	<b>Analyst</b>	<b>Analyzed</b>	<b>Sequence</b>	<b>Batch</b>
C9-C18 Aliphatics1	1660 (93)	---	MADEP-EPH	---	1	JDN	02/24/25 16:17	D5B0394	DB52101
C19-C36 Aliphatics1	525 (93)	---	MADEP-EPH	---	1	JDN	02/24/25 16:17	D5B0394	DB52101
C11-C22 Unadjusted Aromatics1	981 (93.5)	---	EPH8270	---	1	DMC	02/22/25 23:45	D5B0355	DB52101
C11-C22 Aromatics1,2	970 (93.5)	---	EPH8270	---		DMC	02/22/25 23:45	---	[CALC]
2-Methylnaphthalene	10.4 (4.7)	---	EPH8270	---	1	DMC	02/22/25 23:45	D5B0355	DB52101
Acenaphthene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 23:45	D5B0355	DB52101
Naphthalene	ND (9.3)	---	EPH8270	---	1	DMC	02/22/25 23:45	D5B0355	DB52101
Phenanthrene	ND (4.7)	---	EPH8270	---	1	DMC	02/22/25 23:45	D5B0355	DB52101
Preservative:	pH <= 2		MADEP-EPH				JDN		DB52101

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	84 %		40-140
Surrogate: 2-Bromonaphthalene	84 %		40-140
Surrogate: 2-Fluorobiphenyl	92 %		40-140
Surrogate: O-Terphenyl	88 %		40-140

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School

ESS Laboratory Work Order: 25B0574

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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MADEP-VPH Volatile Petroleum Hydrocarbon

**Batch DB52026 - 5030B**

**Blank**

Benzene	ND	1.5	ug/L							
C5-C8 Unadjusted Aliphatics	ND	150	ug/L							
C9-C10 Aromatics	ND	100	ug/L							
C9-C12 Unadjusted Aliphatics	ND	150	ug/L							
Ethylbenzene	ND	5.0	ug/L							
Methyl tert-Butyl Ether	ND	1.5	ug/L							
Naphthalene	ND	5.0	ug/L							
Toluene	ND	5.0	ug/L							
Xylene O	ND	5.0	ug/L							
Xylene P,M	ND	10.0	ug/L							

Surrogate: 2,5-Dibromotoluene - FID

55.0 ug/L 50.00 110 70-130

Surrogate: 2,5-Dibromotoluene - PID

53.1 ug/L 50.00 106 70-130

**LCS**

Benzene	47.8	1.5	ug/L	50.00	96	70-130				
C5-C8 Unadjusted Aliphatics	378	150	ug/L	400.0	94	70-130				
C9-C10 Aromatics	89.2	100	ug/L	100.0	89	70-130				
C9-C12 Unadjusted Aliphatics	255	150	ug/L	300.0	85	70-130				
Ethylbenzene	47.1	5.0	ug/L	50.00	94	70-130				
Methyl tert-Butyl Ether	123	1.5	ug/L	150.0	82	70-130				
Naphthalene	89.0	5.0	ug/L	100.0	89	70-130				
Toluene	136	5.0	ug/L	150.0	91	70-130				
Xylene O	89.8	5.0	ug/L	100.0	90	70-130				
Xylene P,M	181	10.0	ug/L	200.0	91	70-130				

Surrogate: 2,5-Dibromotoluene - FID

59.0 ug/L 50.00 118 70-130

Surrogate: 2,5-Dibromotoluene - PID

57.6 ug/L 50.00 115 70-130

**LCS Dup**

Benzene	49.3	1.5	ug/L	50.00	99	70-130	3	25		
C5-C8 Unadjusted Aliphatics	378	150	ug/L	400.0	95	70-130	0.2	25		
C9-C10 Aromatics	92.8	100	ug/L	100.0	93	70-130	4	25		
C9-C12 Unadjusted Aliphatics	312	150	ug/L	300.0	104	70-130	20	25		
Ethylbenzene	50.6	5.0	ug/L	50.00	101	70-130	7	25		
Methyl tert-Butyl Ether	125	1.5	ug/L	150.0	83	70-130	2	25		
Naphthalene	93.1	5.0	ug/L	100.0	93	70-130	4	25		
Toluene	141	5.0	ug/L	150.0	94	70-130	3	25		
Xylene O	93.3	5.0	ug/L	100.0	93	70-130	4	25		
Xylene P,M	188	10.0	ug/L	200.0	94	70-130	3	25		

Surrogate: 2,5-Dibromotoluene - FID

54.9 ug/L 50.00 110 70-130

Surrogate: 2,5-Dibromotoluene - PID

54.2 ug/L 50.00 108 70-130

**Batch DB52126 - 5030B**

**Blank**

Benzene	ND	1.5	ug/L							
C5-C8 Unadjusted Aliphatics	ND	150	ug/L							
C9-C10 Aromatics	ND	100	ug/L							

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School

ESS Laboratory Work Order: 25B0574

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**MADEP-VPH Volatile Petroleum Hydrocarbon**

**Batch DB52126 - 5030B**

C9-C12 Unadjusted Aliphatics	ND	150	ug/L							
Ethylbenzene	ND	5.0	ug/L							
Methyl tert-Butyl Ether	ND	1.5	ug/L							
Naphthalene	ND	5.0	ug/L							
Toluene	ND	5.0	ug/L							
Xylene O	ND	5.0	ug/L							
Xylene P,M	ND	10.0	ug/L							
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	52.6		ug/L	50.00		105	70-130			
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	53.6		ug/L	50.00		107	70-130			

**LCS**

Benzene	49.3	1.5	ug/L	50.00	99	70-130				
C5-C8 Unadjusted Aliphatics	388	150	ug/L	400.0	97	70-130				
C9-C10 Aromatics	91.3	100	ug/L	100.0	91	70-130				
C9-C12 Unadjusted Aliphatics	293	150	ug/L	300.0	98	70-130				
Ethylbenzene	48.5	5.0	ug/L	50.00	97	70-130				
Methyl tert-Butyl Ether	124	1.5	ug/L	150.0	83	70-130				
Naphthalene	93.9	5.0	ug/L	100.0	94	70-130				
Toluene	139	5.0	ug/L	150.0	93	70-130				
Xylene O	92.1	5.0	ug/L	100.0	92	70-130				
Xylene P,M	186	10.0	ug/L	200.0	93	70-130				
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	53.8		ug/L	50.00	108	70-130				
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	55.5		ug/L	50.00	111	70-130				

**LCS Dup**

Benzene	50.5	1.5	ug/L	50.00	101	70-130	2	25		
C5-C8 Unadjusted Aliphatics	373	150	ug/L	400.0	93	70-130	4	25		
C9-C10 Aromatics	94.2	100	ug/L	100.0	94	70-130	3	25		
C9-C12 Unadjusted Aliphatics	322	150	ug/L	300.0	107	70-130	9	25		
Ethylbenzene	50.2	5.0	ug/L	50.00	100	70-130	3	25		
Methyl tert-Butyl Ether	131	1.5	ug/L	150.0	87	70-130	5	25		
Naphthalene	97.2	5.0	ug/L	100.0	97	70-130	3	25		
Toluene	143	5.0	ug/L	150.0	96	70-130	3	25		
Xylene O	94.8	5.0	ug/L	100.0	95	70-130	3	25		
Xylene P,M	191	10.0	ug/L	200.0	96	70-130	3	25		
<i>Surrogate: 2,5-Dibromotoluene - FID</i>	55.8		ug/L	50.00	112	70-130				
<i>Surrogate: 2,5-Dibromotoluene - PID</i>	55.9		ug/L	50.00	112	70-130				

**MADEP-EPH Extractable Petroleum Hydrocarbons**

**Batch DB52101 - 3510C**

**Blank**

C19-C36 Aliphatics1	ND	100	ug/L							
C9-C18 Aliphatics1	ND	100	ug/L							
<i>Surrogate: 1-Chlorooctadecane</i>	40.7		ug/L	50.00	81	40-140				
<b>Blank</b>										
2-Methylnaphthalene	ND	5.0	ug/L							

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School

ESS Laboratory Work Order: 25B0574

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>MADEP-EPH Extractable Petroleum Hydrocarbons</b>										
<b>Batch DB52101 - 3510C</b>										
Acenaphthene	ND	5.0	ug/L							
Acenaphthylene	ND	5.0	ug/L							
Anthracene	ND	5.0	ug/L							
Benzo(a)anthracene	ND	5.0	ug/L							
Benzo(a)pyrene	ND	10.0	ug/L							
Benzo(b)fluoranthene	ND	5.0	ug/L							
Benzo(g,h,i)perylene	ND	10.0	ug/L							
Benzo(k)fluoranthene	ND	10.0	ug/L							
C11-C22 Unadjusted Aromatics1	ND	100	ug/L							
Chrysene	ND	10.0	ug/L							
Dibenzo(a,h)Anthracene	ND	5.0	ug/L							
Fluoranthene	ND	10.0	ug/L							
Fluorene	ND	5.0	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	5.0	ug/L							
Naphthalene	ND	10.0	ug/L							
Phenanthrene	ND	5.0	ug/L							
Pyrene	ND	5.0	ug/L							
<i>Surrogate: 2-Bromonaphthalene</i>	40.4		ug/L	50.00		81	40-140			
<i>Surrogate: 2-Fluorobiphenyl</i>	45.2		ug/L	50.00		90	40-140			
<i>Surrogate: O-Terphenyl</i>	44.7		ug/L	50.00		89	40-140			
<b>LCS</b>										
C19-C36 Aliphatics1	348	100	ug/L	400.0		87	40-140			
C9-C18 Aliphatics1	226	100	ug/L	300.0		75	40-140			
<i>Surrogate: 1-Chlorooctadecane</i>	39.8		ug/L	50.00		80	40-140			
<b>LCS</b>										
2-Methylnaphthalene	34.5	5.0	ug/L	50.00		69	40-140			
Acenaphthene	38.2	5.0	ug/L	50.00		76	40-140			
Acenaphthylene	40.1	5.0	ug/L	50.00		80	40-140			
Anthracene	44.9	5.0	ug/L	50.00		90	40-140			
Benzo(a)anthracene	43.8	5.0	ug/L	50.00		88	40-140			
Benzo(a)pyrene	51.5	10.0	ug/L	50.00		103	40-140			
Benzo(b)fluoranthene	42.1	5.0	ug/L	50.00		84	40-140			
Benzo(g,h,i)perylene	38.3	10.0	ug/L	50.00		77	40-140			
Benzo(k)fluoranthene	39.9	10.0	ug/L	50.00		80	40-140			
C11-C22 Unadjusted Aromatics1	741	100	ug/L	850.0		87	40-140			
Chrysene	40.5	10.0	ug/L	50.00		81	40-140			
Dibenzo(a,h)Anthracene	39.7	5.0	ug/L	50.00		79	40-140			
Fluoranthene	39.7	10.0	ug/L	50.00		79	40-140			
Fluorene	38.5	5.0	ug/L	50.00		77	40-140			
Indeno(1,2,3-cd)Pyrene	41.3	5.0	ug/L	50.00		83	40-140			
Naphthalene	32.9	10.0	ug/L	50.00		66	40-140			
Phenanthrene	38.5	5.0	ug/L	50.00		77	40-140			
Pyrene	39.2	5.0	ug/L	50.00		78	40-140			
<i>Surrogate: 2-Bromonaphthalene</i>	39.4		ug/L	50.00		79	40-140			

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
 Client Project ID: Hardy School

ESS Laboratory Work Order: 25B0574

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>MADEP-EPH Extractable Petroleum Hydrocarbons</b>										
<b>Batch DB52101 - 3510C</b>										
Surrogate: 2-Fluorobiphenyl	46.3		ug/L	50.00	93	40-140				
Surrogate: O-Terphenyl	43.7		ug/L	50.00	87	40-140				
<b>LCS</b>										
2-Methylnaphthalene Breakthrough	0.0		%			0-5				
Naphthalene Breakthrough	0.0		%			0-5				
<b>LCS Dup</b>										
C19-C36 Aliphatics1	421	100	ug/L	400.0	105	40-140	19	25		
C9-C18 Aliphatics1	260	100	ug/L	300.0	87	40-140	14	25		
Surrogate: 1-Chlorooctadecane	47.1		ug/L	50.00	94	40-140				
<b>LCS Dup</b>										
2-Methylnaphthalene	34.2	5.0	ug/L	50.00	68	40-140	1	20		
Acenaphthene	38.1	5.0	ug/L	50.00	76	40-140	0.3	20		
Acenaphthylene	39.8	5.0	ug/L	50.00	80	40-140	0.6	20		
Anthracene	44.7	5.0	ug/L	50.00	89	40-140	0.4	20		
Benzo(a)anthracene	43.0	5.0	ug/L	50.00	86	40-140	2	20		
Benzo(a)pyrene	50.4	10.0	ug/L	50.00	101	40-140	2	20		
Benzo(b)fluoranthene	40.8	5.0	ug/L	50.00	82	40-140	3	20		
Benzo(g,h,i)perylene	37.4	10.0	ug/L	50.00	75	40-140	2	20		
Benzo(k)fluoranthene	39.2	10.0	ug/L	50.00	78	40-140	2	20		
C11-C22 Unadjusted Aromatics1	729	100	ug/L	850.0	86	40-140	2	25		
Chrysene	40.0	10.0	ug/L	50.00	80	40-140	1	20		
Dibenzo(a,h)Anthracene	38.0	5.0	ug/L	50.00	76	40-140	4	20		
Fluoranthene	39.4	10.0	ug/L	50.00	79	40-140	0.9	20		
Fluorene	38.1	5.0	ug/L	50.00	76	40-140	1	20		
Indeno(1,2,3-cd)Pyrene	40.1	5.0	ug/L	50.00	80	40-140	3	20		
Naphthalene	32.7	10.0	ug/L	50.00	65	40-140	0.7	20		
Phenanthrene	38.1	5.0	ug/L	50.00	76	40-140	0.9	20		
Pyrene	39.1	5.0	ug/L	50.00	78	40-140	0.3	20		
Surrogate: 2-Bromonaphthalene	43.1		ug/L	50.00	86	40-140				
Surrogate: 2-Fluorobiphenyl	46.0		ug/L	50.00	92	40-140				
Surrogate: O-Terphenyl	42.8		ug/L	50.00	86	40-140				
<b>LCS Dup</b>										
2-Methylnaphthalene Breakthrough	0.0		%			0-5		200		
Naphthalene Breakthrough	0.0		%			0-5		200		

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
Client Project ID: Hardy School

ESS Laboratory Work Order: 25B0574

**Notes and Definitions**

Z-06	pH <= 2
U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units

**CERTIFICATE OF ANALYSIS**

Client Name: Clean Harbors  
Client Project ID: Hardy School

ESS Laboratory Work Order: 25B0574

**ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS**

**ENVIRONMENTAL**

Rhode Island Potable and Non Potable Water: LAI00179  
<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750  
[http://www.ct.gov/dph/lib/dph/environmental\\_health/environmental\\_laboratories/pdf/OutofStateCommercialLaboratories.pdf](http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf)

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002  
<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002  
<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424  
<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313  
<http://www.wadsworth.org/labcert/elap/comm.html>

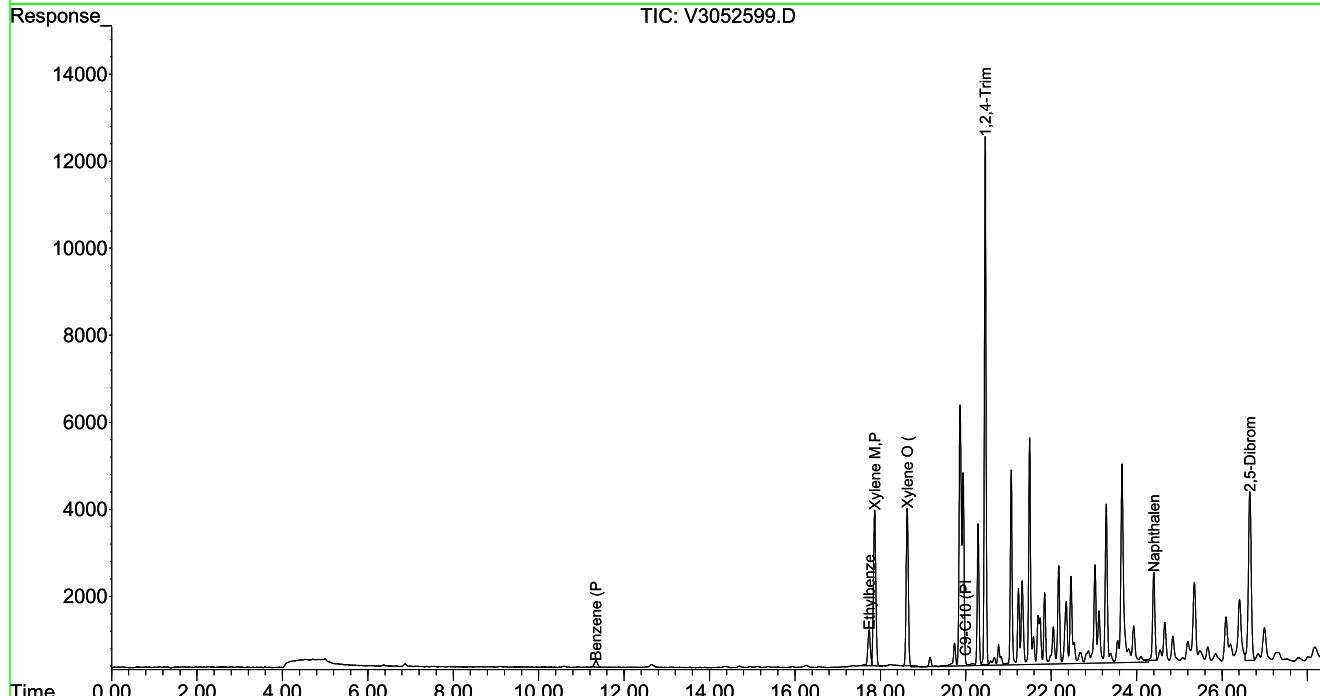
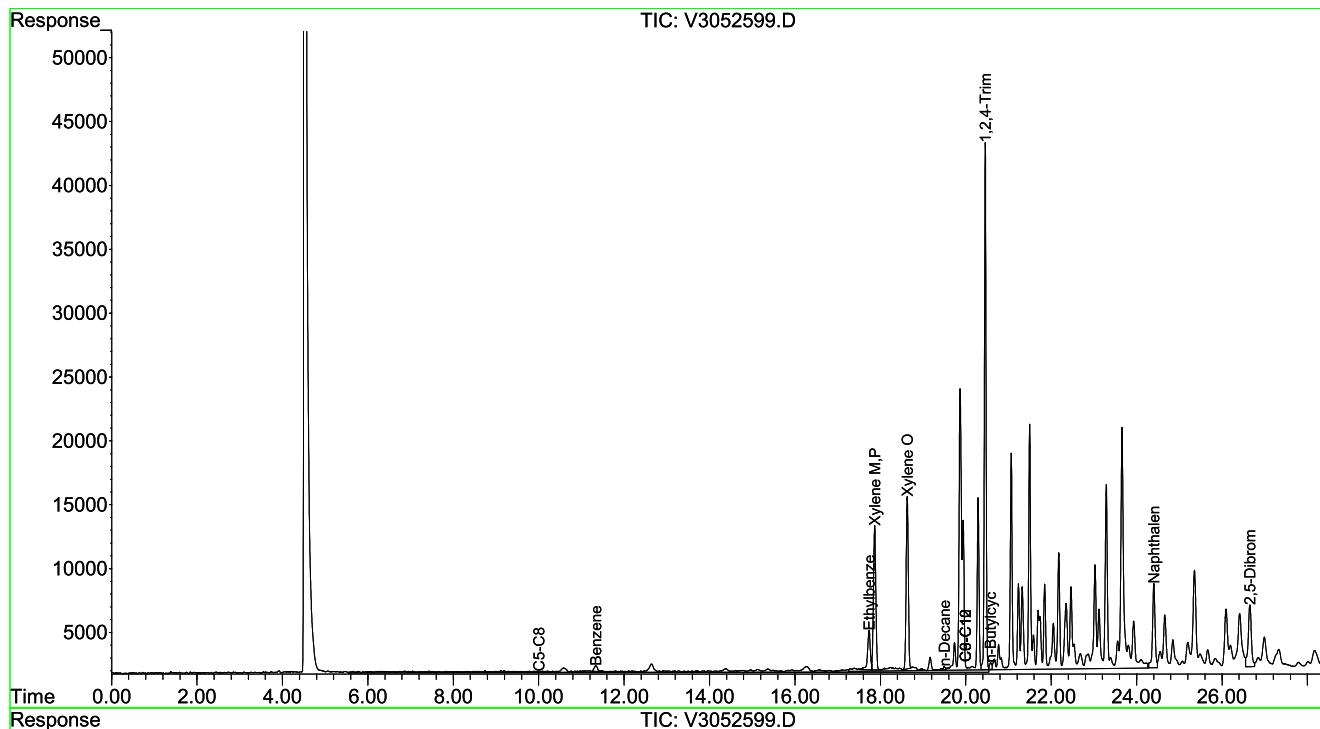
New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006  
[http://datamine2.state.nj.us/DEP\\_OPRA/OpraMain/pi\\_main?mode=pi\\_by\\_site&sort\\_order=PI\\_NAMEA&Select+a+Site:=58715](http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715)

Pennsylvania: 68-01752  
<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

Data Path : M:\VOA\VGC3\DATA\2025 DATA\02-2025\022125\  
 Data File : V3052599.D  
 Signal(s) : Signal #1: FID1A.CH Signal #2: FID2B.CH  
 Acq On : 21 Feb 2025 8:12 pm  
 Operator : MEK  
 Sample : 25B0574-12  
 Misc :  
 InstName : VGC3  
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 23 15:10:32 2025  
 Quant Method : Q:\VOA\VGC3\Methods\V3020425.M  
 Quant Title : VPH AQ:2412014 VPH SOIL:2412015  
 QLast Update : Wed Feb 05 09:59:03 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



# ESS Laboratory Sample and Cooler Receipt Checklist

Client: Clean Harbors - Norwell - ML

ESS Project ID: 25B0574  
 Date Received: 2/20/2025  
 Project Due Date: 2/27/2025  
 Days for Project: 5 Day

Shipped/Delivered Via: ESS Courier  
 Air bill manifest present?  No  
 Air No.: NA

2/20/25

Yes / No

Were custody seals present?  No  
 Is radiation count <100 CPM?  Yes  
 Is a Cooler Present?  Yes  
 Temp: 3.7 Iced with: Ice

Does COC match bottles?  Yes  
 Is COC complete and correct?  Yes  
 Were samples received intact?  Yes  
 Were labs informed about short holds & rushes?  Yes / No / NA  
 Were any analyses received outside of hold time?  Yes / No

Was COC signed and dated by client?  Yes

\_\_\_\_\_

Any Subcontracting needed?  Yes / No  
 ESS Sample IDs:  
 Analysis: \_\_\_\_\_  
 TAT: \_\_\_\_\_

12. Were VOAs received?  
 a. Air bubbles in aqueous VOAs?  Yes / No  
 b. Does methanol cover soil completely?  Yes / No / NA

Are the samples properly preserved?  
 a. If metals preserved upon receipt: Date: \_\_\_\_\_  
 b. If dissolved metals are requested, are they: Yes / No Field Filtered  
 c. Low Level VOA vials frozen: Date: \_\_\_\_\_

Time: \_\_\_\_\_ By/Acid Lot#: \_\_\_\_\_  
 Yes / No To Be Lab Filtered  
 Time: \_\_\_\_\_ By: \_\_\_\_\_

## Sample Receiving Notes:

COC for

Only Received one Liter amber for sample 4. Label on sample 4 = MW 12  
@ 11:25. Label on bottle = MW 25 @ 11:25

Was there a need to contact Project Manager?

a. Was there a need to contact the client?

Who was contacted? Daniel Taylor

Yes / No  
 Yes / No

2/20/25

Date: 2/24/25 Time: 9:15

By: SMD

## Resolution:

Client verified Sample 04 ID as MW-12 @ 11:25.

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	641603	Yes	No	Yes	VOA Vial	HCl	
1	641604	Yes	No	Yes	VOA Vial	HCl	
1	641605	Yes	No	Yes	VOA Vial	HCl	
1	641639	Yes	N/A	Yes	1L Amber	HCl	
1	641640	Yes	N/A	Yes	1L Amber	HCl	
2	641606	Yes	No	Yes	VOA Vial	HCl	
2	641607	Yes	No	Yes	VOA Vial	HCl	
2	641608	Yes	No	Yes	VOA Vial	HCl	
2	641641	Yes	N/A	Yes	1L Amber	HCl	
2	641642	Yes	N/A	Yes	1L Amber	HCl	
3	641609	Yes	No	Yes	VOA Vial	HCl	
3	641610	Yes	No	Yes	VOA Vial	HCl	
3	641611	Yes	No	Yes	VOA Vial	HCl	
3	641643	Yes	N/A	Yes	1L Amber	HCl	
3	641644	Yes	N/A	Yes	1L Amber	HCl	
4	641612	Yes	No	Yes	VOA Vial	HCl	
4	641613	Yes	No	Yes	VOA Vial	HCl	
4	641614	Yes	No	Yes	VOA Vial	HCl	
4	641645	Yes	N/A	Yes	1L Amber	HCl	
5	641615	Yes	No	Yes	VOA Vial	HCl	

**ESS Laboratory Sample and Cooler Receipt Checklist**

Client:	Clean Harbors - Norwell - ML				ESS Project ID:	25B0574
					Date Received:	2/20/2025
5	641616	Yes	No	Yes	VOA Vial	HCI
5	641617	Yes	No	Yes	VOA Vial	HCI
5	641647	Yes	N/A	Yes	1L Amber	HCI
5	641648	Yes	N/A	Yes	1L Amber	HCI
6	641618	Yes	No	Yes	VOA Vial	HCI
6	641619	Yes	No	Yes	VOA Vial	HCI
6	641620	Yes	No	Yes	VOA Vial	HCI
6	641649	Yes	N/A	Yes	1L Amber	HCI
6	641650	Yes	N/A	Yes	1L Amber	HCI
7	641621	Yes	No	Yes	VOA Vial	HCI
7	641622	Yes	No	Yes	VOA Vial	HCI
7	641623	Yes	No	Yes	VOA Vial	HCI
7	641651	Yes	N/A	Yes	1L Amber	HCI
7	641652	Yes	N/A	Yes	1L Amber	HCI
8	641624	Yes	No	Yes	VOA Vial	HCI
8	641625	Yes	No	Yes	VOA Vial	HCI
8	641626	Yes	No	Yes	VOA Vial	HCI
8	641653	Yes	N/A	Yes	1L Amber	HCI
8	641654	Yes	N/A	Yes	1L Amber	HCI
9	641627	Yes	No	Yes	VOA Vial	HCI
9	641628	Yes	No	Yes	VOA Vial	HCI
9	641629	Yes	No	Yes	VOA Vial	HCI
9	641655	Yes	N/A	Yes	1L Amber	HCI
9	641656	Yes	N/A	Yes	1L Amber	HCI
10	641630	Yes	No	Yes	VOA Vial	HCI
10	641631	Yes	No	Yes	VOA Vial	HCI
10	641632	Yes	No	Yes	VOA Vial	HCI
10	641657	Yes	N/A	Yes	1L Amber	HCI
10	641658	Yes	N/A	Yes	1L Amber	HCI
11	641633	Yes	No	Yes	VOA Vial	HCI
11	641634	Yes	No	Yes	VOA Vial	HCI
11	641635	Yes	No	Yes	VOA Vial	HCI
11	641659	Yes	N/A	Yes	1L Amber	HCI
11	641660	Yes	N/A	Yes	1L Amber	HCI
12	641636	Yes	No	Yes	VOA Vial	HCI
12	641637	Yes	No	Yes	VOA Vial	HCI
12	641638	Yes	No	Yes	VOA Vial	HCI
12	641661	Yes	N/A	Yes	1L Amber	HCI
12	641662	Yes	N/A	Yes	1L Amber	HCI

**2nd Review**

- Were all containers scanned into storage/lab?
- Are barcode labels on correct containers?
- Are all Flashpoint stickers attached/container ID # circled?
- Are all Hex Chrome stickers attached?
- Are all QC stickers attached?
- Are VOA stickers attached if bubbles noted?

Initials BB

Yes / No

Yes / No / NA

Completed

By:

Reviewed

By:

Date & Time: 2/20/25 16:58

Date & Time: 2/20/25 17:35



185 Frances Avenue  
Cranston, RI 02921  
Phone: 401-461-7181  
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## **CHAIN OF CUSTODY**

ESS Lab # 25B0574

Page 1 of 2

Turn Time	<input type="checkbox"/> > 5	<input checked="" type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> Same Day	ELECTRONIC DELIVERABLES (Final Reports are PDF)								
Regulatory State:	Criteria: S-1 / GW-1							<input checked="" type="checkbox"/> Limit Checker	<input type="checkbox"/> State Forms	<input type="checkbox"/> EQuIS						
Is this project for any of the following?:								<input checked="" type="checkbox"/> Excel	<input type="checkbox"/> Hard Copy	<input type="checkbox"/> Enviro Data						
<input type="checkbox"/> CT RCP		<input checked="" type="checkbox"/> MA MCP		<input type="checkbox"/> RGP		<input type="checkbox"/> Permit		<input type="checkbox"/> CLP-Like Package		<input checked="" type="checkbox"/> Other (Specify) → .pdf						
PROJECT INFORMATION								REQUESTED ANALYSES								
Project Name:	Hardy School							Client acknowledges that sampling is compliant with all EPA / State regulatory programs	<input type="checkbox"/> EPA	<input type="checkbox"/> Diesel Target						
Project Location:	818 Worcester St. Mt								<input type="checkbox"/> MW	<input type="checkbox"/> Diesel Target						
Project Number:	240315 2545								<input type="checkbox"/> H2O	<input type="checkbox"/> Diesel Target						
Project Manager:	Daniel Taylor								<input type="checkbox"/> VPH	<input type="checkbox"/> Diesel Target						
Bill to:	Clean Harbors								<input type="checkbox"/> MW	<input type="checkbox"/> Diesel Target						
PO#:									<input type="checkbox"/> H2O	<input type="checkbox"/> Diesel Target						
Quote#:								<input type="checkbox"/> VPH	<input type="checkbox"/> Diesel Target							
Sample Matrix	Sample ID							<input type="checkbox"/> EPA	<input type="checkbox"/> Diesel Target							
GW	mw-10							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	mw-20							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	mw-19							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	mw-12							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	mw-18							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	mw-26							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	mw-24							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	mw-17							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	mw-25							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	mw-16							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
Number	Glass	B-BOD Bottle	C-Cubitainer	J-Jar	O-Other	P-Poly	S-Sterile	V-Vial	AG	✓						
250 mL	4-300 mL	5-500 mL	6-1L	7-VOA	8-2 oz	9-4 oz	10-8 oz	11-Other*	6	7						
SO4	4-HNO3	5-NaOH	6-Methanol	7-Na2S2O3	8-ZnAc, NaOH	9-NH4Cl	10-DI H2O	11-Other*	2	2						
Chain needs to be filled out neatly and completely for on time delivery.									All samples submitted are subject to ESS Laboratory's payment terms and conditions.				Dissolved Filtration			
* Please specify "Other" preservative and containers types in this space Put in Cooler w/ ICE → Refrigerator → Carrier													Lab Filter			
Time	Received by (Signature)			Relinquished by (Signature)			Date	Time	Received by (Signature)							
17:30	Samples Fridge			Kathy Hawley			02/20/25	11:13	John Doe							
Time	Received by (Signature)			Relinquished by (Signature)			Date	Time	Received by (Signature)							
16:35																



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## CHAIN OF CUSTODY

ESS Lab # 25B0574

Page 2 of 2

PROJECT INFORMATION								REQUESTED ANALYSES								Total Number of Bottles				
Regulatory State:				Criteria:				<input checked="" type="checkbox"/> Limit Checker <input type="checkbox"/> State Forms <input type="checkbox"/> EQuIS												
Is this project for any of the following:								<input checked="" type="checkbox"/> Excel <input type="checkbox"/> Hard Copy <input type="checkbox"/> Enviro Data												
<input type="checkbox"/> CT RCP		<input checked="" type="checkbox"/> MA MCP		<input type="checkbox"/> RGP		<input type="checkbox"/> Permit		<input type="checkbox"/> CLP-Like Package <input checked="" type="checkbox"/> Other (Specify) → .pdf												
<b>Project Name:</b> <i>Hardy School</i> <b>Project Location:</b> <i>818 Worcester St. MA</i> <b>Project Number:</b> <i>2408152645</i> <b>Project Manager:</b> <i>Daniel Taylor</i> <b>Bill to:</b> <i>Clean Harbors</i> <b>PO#:</b> <b>Quote#:</b>								Client acknowledges that sampling is compliant with all EPA / State regulatory programs												
<i>EPA H/Diesel Tank</i> <i>VPH H/Diesel Target</i>																				
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID				<i>mW-11</i>	<i>mW-23</i>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
11	02/18/25	15:30	Grab	GW																
12	5	15:50	+	GW																
Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial										<i>AG</i>		<i>✓</i>								
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*										<i>6</i>		<i>7</i>								
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAc, NaOH 9-NH4Cl 10-DI H2O 11-Other*										<i>2</i>		<i>2</i>								
Sampled by :										Chain needs to be filled out neatly and completely for on time delivery.										
Laboratory Use Only		Comments: * Please specify "Other" preservative and containers types in this space <i>-Samples put in cooler w/ ice -&gt; Refrigerator -&gt; carrier</i>								All samples submitted are subject to ESS Laboratory's payment terms and conditions.				Dissolved Filtration						
Cooler Temperature (°C): <i>3.7</i> <i>1C</i>														Lab Filter						
Relinquished by (Signature)		Date	Time	Received by (Signature)		Relinquished by (Signature)		Date	Time	Received by (Signature)		Received by (Signature)								
<i>Kyle Hardiey</i>		02/18/25	17:30	<i>Samples Fridge</i>		<i>X Kyle Hardiey</i>		02/18/25	11:13	<i>2/18/25</i>		<i>2/18/25</i>								
Relinquished by (Signature)		Date	Time	Received by (Signature)		Relinquished by (Signature)		Date	Time	Received by (Signature)		Received by (Signature)								
<i>JM Green</i>		2/20/25	15:35	<i>/</i>																

## APPENDIX D





Clean Harbors Environmental Services, Inc.  
42 Longwater Drive  
P.O. Box 9149  
Norwell, MA 02061-9149  
[www.cleanharbors.com](http://www.cleanharbors.com)

April 2, 2025

Ms. Colette Aufranc  
Chair; Select Board  
Town of Wellesley  
525 Washington Street  
Wellesley, MA 02482  
Via email to [caufranc@wellesleyma.gov](mailto:caufranc@wellesleyma.gov)

RE: Copies of Data  
Diesel Fuel Release  
New Hardy School  
293 Weston Road (A.K.A) 818 Worcester Road)  
Wellesley Massachusetts,02482  
MassDEP Release Tracking Number: 3-50297

Dear Ms. Aufranc:

Clean Harbors Environmental Services (CHES) has written this letter to provide you with copies of data reported in July, collected on the Hardy School property on behalf of Griffin Electric related to the above-referenced spill. The document and others related to this disposal site are available on-line at the Massachusetts Department of Environmental Protection via the link below:

<https://eeaonline.eea.state.ma.us/portal/dep/wastesite/viewer/3-0050297>

If you have any questions or require additional information regarding this correspondence, please contact Dan Taylor at (734) 626-7846.

Sincerely,

A handwritten signature in blue ink, appearing to read "Daniel Taylor".

Daniel Taylor, LSP  
Senior Project Manager  
[Taylor.Daniel1@cleanharbors.com](mailto:Taylor.Daniel1@cleanharbors.com)

Cc: Meghan Jop, Executive Director, [mjop@wellesleyma.gov](mailto:mjop@wellesleyma.gov)  
Attachment: BWSC-123 Form, Laboratory Reports

*"People and Technology Creating a Better Environment"*



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

**BWSC123**

This Notice is Related to:  
Release Tracking Number  
\_\_\_\_\_ - \_\_\_\_\_

**NOTICE OF ENVIRONMENTAL SAMPLING**

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

**A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):**

1. Street Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**B. This notice is being provided to the following party:**

1. Name: \_\_\_\_\_

2. Street Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**C. This notice is being given to inform its recipient (the party listed in Section B):**

1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

**D. Location of the property where the environmental sampling will be/has been conducted:**

1. Street Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

2. MCP phase of work during which the sampling will be/has been conducted:

Immediate Response Action

Phase III Feasibility Evaluation

Release Abatement Measure

Phase IV Remedy Implementation Plan

Utility-related Abatement Measure

Phase V/Remedy Operation Status

Phase I Initial Site Investigation

Post-Temporary Solution Operation, Maintenance and Monitoring

Phase II Comprehensive Site Assessment

Other \_\_\_\_\_

(specify)

3. Description of property where sampling will be/has been conducted:

residential      commercial      industrial      school/playground      Other \_\_\_\_\_  
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

**E. Contact information related to the party providing this notice:**

Contact Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

**BWSC123**

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Release Tracking Number

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**NOTICE OF ENVIRONMENTAL SAMPLING**

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

**MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE**

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

**THE PERSON(S) PROVIDING THIS NOTICE**

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

**PURPOSE OF THIS NOTICE**

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

**Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

**Section D** on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

**FOR MORE INFORMATION**

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



Clean Harbors Environmental Services, Inc.  
42 Longwater Drive  
P.O. Box 9149  
Norwell, MA 02061-9149  
[www.cleanharbors.com](http://www.cleanharbors.com)

April 2, 2025

Mr. Leonard Izzo, MS, RS, CHO  
Director, Community and Public Health  
Town of Wellesley  
525 Washington Street  
Wellesley, MA 02482  
Via email to [lizzo@wellesleyma.gov](mailto:lizzo@wellesleyma.gov)

RE: Copies of Data  
Diesel Fuel Release  
New Hardy School  
293 Weston Road (A.K.A) 818 Worcester Road)  
Wellesley Massachusetts,02482  
MassDEP Release Tracking Number: 3-50297

Dear Mr. Izzo:

Clean Harbors Environmental Services (CHES) has written this letter to provide you with copies of data reported in December, 2024, and February, 2025, collected on the Hardy School property on behalf of Griffin Electric related to the above-referenced spill. The document and others related to this disposal site are available on-line at the Massachusetts Department of Environmental Protection via the link below:

<https://eeaonline.eea.state.ma.us/portal/dep/wastesite/viewer/3-0050297>

If you have any questions or require additional information regarding this correspondence, please contact Dan Taylor at (734) 626-7846.

Sincerely,

A handwritten signature in blue ink, appearing to read "Daniel Taylor".

Daniel Taylor, LSP  
Senior Project Manager  
[Taylor.Daniel1@cleanharbors.com](mailto:Taylor.Daniel1@cleanharbors.com)

Attachment: BWSC-123 Form, Laboratory Reports

*"People and Technology Creating a Better Environment"*



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

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City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**B. This notice is being provided to the following party:**

1. Name: \_\_\_\_\_

2. Street Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

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**D. Location of the property where the environmental sampling will be/has been conducted:**

1. Street Address: \_\_\_\_\_

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2. MCP phase of work during which the sampling will be/has been conducted:

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Phase III Feasibility Evaluation

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Other \_\_\_\_\_

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3. Description of property where sampling will be/has been conducted:

residential      commercial      industrial      school/playground      Other \_\_\_\_\_  
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

**E. Contact information related to the party providing this notice:**

Contact Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_



**Massachusetts Department of Environmental Protection**  
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**THE PERSON(S) PROVIDING THIS NOTICE**

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**PURPOSE OF THIS NOTICE**

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

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