BENNETT ENVIRONMENTAL ASSOCIATES, LLC. A NATURAL SYSTEMS UTILITIES COMPANY

LICENSED SITE PROFESSIONALS & ENVIRONMENTAL SCIENTISTS & GEOLOGISTS & ENGINEERS

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August 31, 2023

Job #K11482

Town of Barnstable C/o Mr. David Anthony, Director of Asset Management 367 Main St. Hyannis, MA 02601

RE: UNDERGROUND STORAGE TANK (UST) CLOSURE ASSESSMENT Former Cotuit Elementary/Former Waldorf School 140 Old Oyster Rd, Cotuit MA

Dear Mr. Anthony,

Pursuant to our agreement dated March 29, 2023, Bennett Environmental Associates, LLC (BEA) has prepared the following UST Closure Assessment Report to document the removal and disposal of the 10,000-gallon underground storage tank (UST) formerly located at the above referenced property. The report and associated enclosures, document the removal and proper disposal of the tank and associated piping, proper disposal of the wastes generated, and presents the assessment of soil conditions subsequent to removing the tank, as required by the governing regulations. This work was conducted in accordance with the regulations for UST Systems pursuant to 310 CMR 80.00, as well as the Board of Fire Prevention Regulations regarding tanks and containers pursuant to 527 CMR 9.00, and as related to the MA Contingency Plan (MCP) pursuant to 310 CMR 40.0000.

BACKGROUND

The site, located at 140 Old Oyster Road in the village of Cotuit, in the town of Barnstable, Massachusetts, and is formerly the home of the Cotuit Elementary School (1955-2009) and the Waldorf School (2009-2019). The 13.5 acre property contains an approximate 20,000 square foot, single-story, brick, school building, originally constructed in 1955. The property also contains tennis courts and a baseball field northeast of the school building. The subject 10,000-gallon, double-walled, fiberglass, fuel oil UST is located north of the school building. The tank was reportedly installed in the late 1980s and was used to store fuel for the building's heating system. The tank reportedly contained #4 heating fuel up until 2009, when the fuel was changed over to #2 heating fuel. The building is slated to be demolished and removing the UST is part of the site redevelopment.



Photo 1: Former location of UST behind school building, prior to removal.

REMOVAL OF TANK CONTENTS

The fuel remaining in the tank was initially proposed to be reused off-site. However, it was later discovered that the tank also contained a significant volume of water, making reusing the fuel impractical, and disposal the next best option. On May 15, 2023 Boston Green Company, Inc. personnel used a vac-truck to pump 2,600 gallons of oily-water from the tank, before the vac-truck became full, leaving an estimated 500-600 gallons of oily water in the tank. The 2,600 gallons of oily-water were transported off-site, to Tradebe Treatment and Recycling of Stoughton, in Stoughton, MA, under a Uniform Hazardous Waste Manifest. A copy of the manifest is enclosed for reference.



Photo 2: Boston Green pumping out majority of tank contents on May 15, 2023.

TANK/PIPING REMOVAL

Prior to removing the tank, the contractor, Dowling Corporation, Inc. (Dowling), obtained the necessary permit from the Cotuit Fire District. On July 24, 2023, BEA personnel met Dowling personnel on-site to oversee and document tank removal activities. The asphalt and the clean overburden soils on top of the tank were removed in preparation to remove the tank from the ground. The tank measured 31' long and 8' in diameter and was buried approximately 6' below grade.



Photo 3: View of feed/return lines from tank to building.

Dowling personnel used a mini-excavator to uncover the feed and return lines for inspection and assessment. The feed/return lines, constructed of double walled fiberglass were inspected and noted to be in good condition, with no obvious leaks noted. Dowling personnel then cut and removed the lines, and BEA personnel collected composite soil samples in 10' intervals from beneath the lines, and beneath the two pipe joints observed in the piping runs. The vent piping was then uncovered for removal and inspection. The majority of the vent piping was run beneath the feed/return pipes, with a portion of the vent pipe run in a separate trench as it got closer to the building. The vent piping, which was also constructed of double-walled fiberglass, was then inspected, and appeared in good condition with no staining observed. BEA personnel again collected composite soil samples in 10' intervals from beneath the piping, and beneath the two 90 degree elbows along the piping run. Each of the soil samples were placed in 8-ounce glass jars and covered with aluminum septa. The samples were then screened using a

photoionization detector (PID) for evidence of petroleum impact. PID screening results reported concentrations of organic vapors ranging from non-detect (ND) to 5.5 parts per million/volume (ppmv). Selected soil samples were further screened for total petroleum hydrocarbons (TPH) using a Dexsil [®] PetroFlag[®] test kit, with results ranging from 32 ppm to 105 ppm TPH. A summary of field-screening results for the feed/return and vent lines is presented below in Table 1.

Table 1: Field Screening Results of Soil Samples From Tank Piping								
Former Cotuit Elementary School - 140 Old Oyster Rd., Cotuit, MA								
Sample Description	Sample Description PID Reading (ppm/vol) Dexsil PetroFlag Result (p							
Clean Overburden	1.8	-						
Feed/Return 1 (0-10')	0.5							
Feed/Return 2 (10-20')	3.0	22						
Feed/Return 3 (20-30')	5.5	52						
Feed/Return 4 (30-40')	3.3	FO						
Feed/Return 5 (40-50')	1.6	50						
Feed/Return 6 (50'-Building)	0.2	-						
Feed/Return Joint #1	0.8	-						
Feed/Return Joint #2	0.5	-						
Vent 1 (0-10')	ND (<0.1)	-						
Vent 2 (10-20')	ND (<0.1)	-						
Vent 3 (20-30')	0.2	-						
Vent 4 (90 to 90)	ND (<0.1)							
Vent 5 (Building to 90)	ND (<0.1)	-						
Vent 90deg Joint #1	1.8	-						
Vent 90deg Joint #2	4.4	105						
PID readings	reported in parts per million/vo	lume (ppmv)						
Dexsil PetroFla	ag readings reported in parts per	r million (ppm)						
Highlighted cells indicate sa	amples submitted for laboratory	analysis, ND = Non Detect						

That afternoon, Western Oil, Inc. personnel arrived on-site with a vac-truck to remove the remaining contents of the tank. After the tank was pumped down, Dowling personnel entered the tank for cleaning. A total of 591 gallons of oily-water and sludge were pumped out of the tank, including the remaining contents and the water used during cleaning operations. The material was then transported off-site to Western Oil, Inc., in Lincoln, RI, under a Uniform Hazardous Waste Manifest. A copy of the manifest is enclosed for reference.

Dowling personnel prepared the tank for removal from the ground and contacted the Cotuit Fire Department to witness the removal. Deputy Chief Shane Clark arrived on-site and the tank was removed from the ground for inspection. The tank appeared to be in good shape with no evidence of leakage. The tank was placed onto a trailer for later off-site disposal at Allied Recycling Center, Inc., in Walpole, MA. BEA personnel then instructed the operator to collect representative sidewall and bottom-of-hole samples using the excavator bucket. Soil samples were again placed in 8-ounce glass jars, covered with aluminum septa, and screened with a PID for evidence of petroleum impact. PID screening results reported concentrations of organic vapors ranging from ND to 1.0 ppmv. A composite "bottom of hole" soil sample was also screened for TPH using a Dexsil [®] PetroFlag[®] test kit, with a result of 37 ppm. A summary of field-screening results for the tank grave is presented below in Table 2.

Table 2: Field Screening Results of Soil Samples From Tank Grave								
Former Cotuit Elementary School - 140 Old Oyster Rd., Cotuit, MA								
Sample Location	PID Reading (ppm/vol)	Dexsil PetroFlag Result (ppm)						
Sidewall Northeast (SW-NE:6-14')	ND (<0.1)	-						
Sidewall East (SW-E:6-14')	ND (<0.1)	-						
Sidewall Southeast (SW-SE:6-14')	ND (<0.1)	-						
Sidewall Southwest (SW-SW:6-14')	ND (<0.1)	-						
Sidewall West (SW-W:6-14')	ND (<0.1)	-						
Sidewall Northwest (SW-NW:6-14')	ND (<0.1)	-						
Bottom of Hole East (BOH-E@14')	ND (<0.1)	27						
Bottom of Hole West (BOH-W@14')	1.0	37						
PID readings reported in parts per million/volume (ppmv)								
Dexsil PetroFlag r	eadings reported in parts per mi	illion (ppm)						
Highlighted cells indicate same	oles submitted for laboratory an	alysis, ND = Non Detect						



Photo 4: UST after being removed from the ground.

Selected soil samples were later submitted to a MA Certified laboratory for extractable petroleum hydrocarbons (EPH) and related polycyclic aromatic hydrocarbons (PAHs), as well as volatile petroleum hydrocarbons (VPH) and target benzene, toluene, ethylbenzene, and xylenes (BTEX) analysis. These analyses are considered appropriate for the contaminants of concern, which are #2 and #4 fuel oils.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the soil samples submitted were received on August 1,

2023. The results reported trace concentrations of fractional VPH in the composite sample collected from beneath the feed/return lines (Feed/Return 2/3 Comp). The concentrations reported were well below the applicable RCS-1 Reportable Concentrations, outlined within the MCP. All other EPH/VPH parameters were reported as below the laboratory detection limits (Non-Detect). The remaining samples reported all concentrations of EPH/PAHs and VPH/BTEX as Non-Detect. These results are summarized below in Table 3.

Table 3: Laboratory Analytical Results Compared to MassDEP RCS-1 Reportable Concentrations								
Former Cotuit	Elementary Sc	hool - 140 Old	Oyster Rd., Co	tuit, MA	1			
NETLAR Core Number 202002	Feed/Return	Feed/Return	Vent @ 90 #2	BOH @ 14		MassDEP Reportable		
NETLAB Case Number: 3G26052	2/3 Comp	4/5 Comp	2020052.02	Comp	Units	Concentrations		
Lab Sample Number:	3G26052-01	3G26052-02	3G26052-03	3G26052-04	-	D 00 4		
Date Sampled:	//24/2023	//24/2023	//24/2023	//24/2023		RCS-1		
Extractable Petroleum Hydrocarbons (MADEP-EPH)								
Unadjusted C11-C22 Aromatic Hydrocarbons	ND (<6.8)	ND (<6.86)	ND (<7.17)	ND (<6.88)	mg/kg	NS		
Naphthalene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	4		
2-Methylnaphthalene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	0.7		
Phenanthrene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	10		
Acenaphthene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	4		
Acenaphthylene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	1		
Fluorene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	1000		
Anthracene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	1000		
Fluoranthene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	1000		
Pyrene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	1000		
Benzo(a)anthracene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	7		
Chrysene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	70		
Benzo(b)fluoranthene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	7		
Benzo(k)fluoranthene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	70		
Benzo(a)pyrene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	2		
Indeno(1,2,3-cd)pyrene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	7		
Dibenz(a,h)anthracene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	0.7		
Benzo(g,h,i)perylene	ND (<0.34)	ND (<0.34)	ND (<0.35)	ND (<0.34)	mg/kg	1000		
C9-C18 Aliphatic Hydrocarbons	ND (<13.6)	ND (<13.7)	ND (<14.3)	ND (13.7)	mg/kg	1000		
C19-C36 Aliphatic Hydrocarbons	ND (<13.6)	ND (<13.7)	ND (<14.3)	ND (13.7)	mg/kg	3000		
C11-C22 Aromatic Hydrocarbons	ND (<6.8)	ND (<6.86)	ND (<7.17)	ND (<6.88)	mg/kg	1000		
Volatile Petroleum Hydrocarbons (MADEP-VPH)								
Unadjusted C5-C8 Aliphatic Hydrocarbons	9.1	ND (<5.8)	ND (<5.7)	ND (<5.6)	mg/kg	NS		
Unadjusted C9-C12 Aliphatic Hydrocarbons	14.3	ND (<11.6)	ND (<11.3)	ND (<11.2)	mg/kg	NS		
Benzene	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	mg/kg	2		
Ethylbenzene	ND (<0.3)	ND (<0.3)	ND (<0.3)	ND (<0.3)	mg/kg	40		
Methyl t-butyl ether (MTBE)	ND (<0.06)	ND (<0.06)	ND (<0.06)	ND (<0.06)	mg/kg	0.1		
Naphthalene	ND (<0.6)	ND (<0.6)	ND (<0.6)	ND (<0.6)	mg/kg	4		
Toluene	ND (<0.3)	ND (<0.03)	ND (<0.3)	ND (<0.3)	mg/kg	30		
m&p-Xylene	ND (<0.6)	ND (<0.6)	ND (<0.6)	ND (<0.6)	mg/kg	see Total xylenes		
o-Xylene	ND (<0.6)	ND (<0.6)	ND (<0.6)	ND (<0.6)	mg/kg	see Total xylenes		
Total xylenes	ND (<0.6)	ND (<0.6)	ND (<0.6)	ND (<0.6)	mg/kg	100		
C5-C8 Aliphatic Hydrocarbons	9.1	ND (<5.8)	ND (<5.7)	ND (<5.6)	mg/kg	100		
C9-C12 Aliphatic Hydrocarbons	14.3	ND (<11.6)	ND (<11.3)	ND (<11.2)	mg/kg	1000		
C9-C10 Aromatic Hydrocarbons	ND (<5.8)	ND (<5.8)	ND (<5.7)	ND (<5.6)	mg/kg	100		
Blue highlighted cells indicate analytes reported above	laboratory repo	rting limits. ND =	Not detected ab	ove laboratory r	eporting	g limits (in parentheses)		

AUGUST 31, 2023 PAGE 7 OF 7

FINDINGS/CONCLUSIONS

The subject 10,000-gallon, double-walled, fiberglass UST, and associated piping, was removed from the ground in accordance with the governing regulations. The tank and a total of 3,191 gallons of oily-water were subsequently transported off-site for proper disposal. As required by 310 CMR 80.43(4), an assessment was conducted, to evaluate soil conditions for potential contamination related to bulk fuel storage. The assessment included a visual inspection of the tank and associated piping and collecting representative soil samples for field screening and laboratory analysis. Based on BEA personnel observations, the results of field screening, and the qualifying laboratory analyses, there is no evidence of contamination above the applicable regulatory standards, associated with the subject UST, as specific to the area of testing. Therefore, there is no environmental liability associated with the requirements for Release Notification or remediation activities as framed within the MCP, as regulated under 310 CMR 40.0000. This report with enclosures documents regulatory performance for UST Facility Closure in accordance with the governing regulations and policies under 310 CMR 80.00, specific to 80.43(4). Should you have any questions, or need additional information, please contact me directly at your earliest convenience.

Sincerely,

BENNETT ENVIRONMENTAL ASSOCIATES, LLC

John Tadema-Wielandt, LSP Manager of Environmental Services

Encl.

-Site Plan entitled "UST Closure Assessment", Prepared by Bennett Environmental Associates, LLC, Dated August 2, 2023.

-Uniform Hazardous Waste Manifest [023971612 JJK – 2,600 gallons oily/water (5/15/23)] -Uniform Hazardous Waste Manifest [024175429 JJK – 591 gallons oily-water (7/24/23)] -Tank Removal Application/Permit (FP-292)

-Tank Disposal Receipt (FP-291)

-Laboratory Analytical Report – NetLab Work Order #3G26052 [8/1/23]

-MA DEP UST Program Transmittal Form - UST-1 Coversheet/Certification

-MA DEP UST Program Transmittal Form – UST-6 System Removal/Closure In-Place

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MassDEP UST Program Chief Sean Brown – Cotuit Fire District Thomas McKean, Director of Public Health – Town of Barnstable



- PLAN TITLED "TITLE 5 SITE PLAN", PREPARED BY DOWN CAPE ENGINEERING, DATED FEBRUARY 5, 2010 - GOOGLE MAPS IMAGERY © 2023

NOTE: THIS SITE PLAN WAS NOT PREPARED FROM ANY



- 7. FEED/RETURN JOINT #1
- 8. FEED/RETURN JOINT #2
- 9. VENT | (0-10')
- 10. VENT 2 (10-20')
- 11. VENT 3 (20-30')
- 12. VENT 4 (90 TO 90)
- 13. VENT 5 (BUILDING TO 90)
- 14. VENT 90deg JOINT #1 15. VENT 90deg JOINT #2



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Make application to	local fire department.		
	ication and issues dupli	cate as permit	
The Commonweal	th of Massach	usetts	
Department of Fine Services - C	fice of the State S	Fire Manus	hal
APPLICATION	N and DED	MIT	
or steel underground storage tank removal and transportation	on to approved tank dispo	sal yard in acco	ree: \$25.00
Civisions of M.G.L. Chapter 148, Section 38, 527 CMR 1.00	0 Section 1.12.8.40, applie	cation is hereby	made by:
Tank Owner Name (please print) Town of Borner	ashla a		
Address 367 Main St Huappis	and the x	Signature (if spplying t	k pamél)
Strast HUULINS	City	MA	OZCOL State Zip
Removal Contractor	Contamination Asse	ssment	
Company Name Dowling Corporation	Co. or Individual , 10 hn	Todema-	Wielandt
Address 713 Dedham Street Wrentham.	Address 1573 Mair	1 St. Brei	uster NA
Signature (Papplying for permit) MPT 02-043	Signature (if applying for	Print Print	saist, Pro
March lang			
IFCI* Certified Other	** IFCI* Certified ** LSF	*1707	Olher
ank Information		_	
Tank LocationL40 01d Oyster Rd. Cotu	wt, MA 02635	GN	
Fank Capacity (gallons) 10,000-gallons	_Substance Last Stored	Fuel oil	
Tank Dimensions (diameter x length)			
Remarks: We are requesting permission	to empty, de	an, and	unearth
1-10,000 gallon UST located at the	e above address (140 010 0y	iter Rol. Cotuit
isposal Information			
im Transporting Waste Western Oil	State Lic. # MA - 056	2	
fazardous Waste Manifest#	E.P.A. # RIR 0005	00025	
pproved Tank Disposel Yard Allied Recucling	Tank Yard # 0015		
ype of inert Gas FORCE Air Tank Yard Address 190	Main St. Wall	NAM NAM	2001
oprovals	- Coloci OI. Mikip	MAL MAL	10000
by or Town COTUET	FDID# 01921	Permit#	
ate of Issue 6/22/2023	Date of Expiration12	131/202	3
g Safe approval number: Og Safe Tol Free Tel Number - Annual -	Trenching Permit #	()	
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FP-292 (Revised 1.2018)

Service .

She Co	mmonwealth	of Mass	rchusetts	1
Department of S	ire Services – C	fice of the A	ate Fire Ma	mhal L
RECEIPT OF DISF FORME	OSAL OF UNDER	GROUND ST	EEL STORAGE	TANK
NAME AND ADDRESS OF AP	·· PROVED TANK VAR		ed Recycling Co	nter Inc
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3	and the second second	ZIT	Walpole, MA 61	081
Approved Tank Yard Number:	0015			
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certify under penalty of law the o this "approved tank yard" by (ind accepted same in conforma- steel Storage Tank Dismantling lepertment FDIDH b transport this tank to this yard lame and officiel title of opprove lame and opprove lame a	A I have personally part firm, corporation of personally parts ince with 627 CIMR 1.0 Yards. A valid permit w 0/92/0 ed tank yard owner or of Title :	mined the under inership) 0:68.21.7.7 Provi res leaved by the pwmers authorized c TANK REMOVEL No. and Street: / City and Town: Fire Dept. Permit Notes:	round steel storage $2 a / n \in 7 a$ stores for Approving head of the LOCAL standard of the LOCAL	underground line 1: 7/27/20. 94 Star da

each tank must have a receipt of disposal

Owner/Operator is responsible for notifying the Department of Environmental Protection:

Department of Environmental Protection Bureau of Waste Prevention - UST Program Boston, MA 02112

This signed receipt of disposal must be returned to the head of the local fire department.

Form FP-201 (Rev. 1.2018)

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REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 3G26052 Client Project: K11482 - 140 Old Oyster Rd, Cotuit, MA

Report Date: 01-August-2023

Prepared for:

John Tadema-Wielandt Bennett Environmental Association (NSU) 1573 Main Street Brewster, MA 02631

Richard Warila, Laboratory Director New England Testing Laboratory, Inc. 59 Greenhill Street West Warwick, RI 02893 rich.warila@newenglandtesting.com

Samples Submitted :

The samples listed below were submitted to New England Testing Laboratory on 07/26/23. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 3G26052. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled	Date Received
3G26052-01	Feed/Return 2/3 Comp	Soil	07/24/2023	07/26/2023
3G26052-02	Feed/Return 4/5 Comp	Soil	07/24/2023	07/26/2023
3G26052-03	Vent @ 90 #2	Soil	07/24/2023	07/26/2023
3G26052-04	BOH @ 14' Comp	Soil	07/24/2023	07/26/2023

Request for Analysis

At the client's request, the analyses presented in the following table were performed on the samples submitted.

BOH @ 14' Comp (Lab Number: 3G26052-04)

<u>Analysis</u>	<u>Method</u>
	MADEP EPH
Feed/Return 2/3 Comp (Lab Number: 3G26052-01)	
Analysis	<u>Method</u>
MADEP EPH MADEP VPH	Madep eph Madep vph
Feed/Return 4/5 Comp (Lab Number: 3G26052-02)	
<u>Analysis</u>	<u>Method</u>
MADEP EPH MADEP VPH	Madep eph Madep vph
Vent @ 90 #2 (Lab Number: 3G26052-03)	
Analysis	<u>Method</u>
MADEP EPH MADEP VPH	Madep eph Madep vph

Method References

Method for the Determination of Extractable Petroleum Hydrocarbons, Rev. 2.1, Massachusetts Department of Environmental Protection, 2004

Method for the Determination of Volatile Petroleum Hydrocarbons, Rev. 2.1, Massachusetts Department of Environmental Protection, 2018

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, USEPA

Case Narrative

Sample Receipt:

The samples associated with this work order were received in appropriately cooled and preserved containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Exceptions: None

Analysis:

All samples were prepared and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control requirements and allowances. Results for all soil samples, unless otherwise indicated, are reported on a dry weight basis.

Exceptions: None

Volatile Petroleum Hydrocarbons Sample: Feed/Return 2/3 Comp (3G26052-01)

SAMPLE INFORMATION

Matrix	Soil			
Containers	Satisfactory			
	Aqueous	NA		
Sample	Soil or	Preserved with methanol and/or in an air-tight container	ml methanol	
FIESEIVALION	Sediment	Methanol preserved (covering sample)	per gram soil:	
		Received in air-tight container	1:1 +/- 25%	
Temperature	Received on Ice	Received at: 4+/-2 C°		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID				Feed/Return 2/3 Comp		
Method for Target Analytes: MADEP VPH-18-2.1	Lab ID				3G26052-01		
VPH Surrogate Standards:			07/24/23				
PID: 2,5-Dibromotoluene			Date Red	ceived	07/26/23		
FID: 2,5-Dibromotoluene	% Moisture 2.50						
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed	
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	5.8	mg/kg	9.1	07/27/23 12:33	
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	11.7	mg/kg	14.3	07/27/23 12:33	
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	07/27/23 12:33	
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	07/27/23 12:33	
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	07/27/23 12:33	
Naphthalene	NA	50X	0.6	mg/kg	<0.6	07/27/23 12:33	
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	07/27/23 12:33	
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	07/27/23 12:33	
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	07/27/23 12:33	
Total xylenes		50X	0.6	mg/kg	<0.6	07/27/23 12:33	
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	5.8	mg/kg	9.1	07/27/23 12:33	
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	11.7	mg/kg	14.3	07/27/23 12:33	
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	5.8	mg/kg	<5.8	07/27/23 12:33	
2,5-Dibromotoluene-PID				%	102	07/27/23 12:33	
2,5-Dibromotoluene-FID				%	106	07/27/23 12:33	
Surrogate Acceptance Range				%	70-130		

[1] Hydrocarbon Range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

Volatile Petroleum Hydrocarbons Sample: Feed/Return 4/5 Comp (3G26052-02)

SAMPLE INFORMATION

Matrix	Soil			
Containers	Satisfactory			
	Aqueous	NA		
Sample	Soil or	Preserved with methanol and/or in an air-tight container	ml methanol	
Fleseivation	Sediment	Methanol preserved (covering sample)	per gram soil:	
		Received in air-tight container	1:1 +/- 25%	
Temperature	Received on Ice	Received at: 4+/-2 C°		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1			Clie	nt ID	Feed/Return 4/5	5 Comp	
Method for Target Analytes: MADEP VPH-18-2.1			L	ab ID	3G26052-02		
VPH Surrogate Standards:			Date Col	lected	07/24/23	07/24/23	
PID: 2,5-Dibromotoluene			Date Red	ceived	07/26/23		
FID: 2,5-Dibromotoluene			% M	oisture	3.50		
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed	
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	5.8	mg/kg	<5.8	07/27/23 13:05	
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	11.6	mg/kg	<11.6	07/27/23 13:05	
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	07/27/23 13:05	
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	07/27/23 13:05	
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	07/27/23 13:05	
Naphthalene	NA	50X	0.6	mg/kg	<0.6	07/27/23 13:05	
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	07/27/23 13:05	
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	07/27/23 13:05	
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	07/27/23 13:05	
Total xylenes		50X	0.6	mg/kg	<0.6	07/27/23 13:05	
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	5.8	mg/kg	<5.8	07/27/23 13:05	
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	11.6	mg/kg	<11.6	07/27/23 13:05	
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	5.8	mg/kg	<5.8	07/27/23 13:05	
2,5-Dibromotoluene-PID				%	104	07/27/23 13:05	
2,5-Dibromotoluene-FID				%	104	07/27/23 13:05	
Surrogate Acceptance Range				%	70-130		

[1] Hydrocarbon Range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

Volatile Petroleum Hydrocarbons Sample: Vent @ 90 #2 (3G26052-03)

SAMPLE INFORMATION

Matrix	Soil		
Containers	Satisfactory		
	Aqueous	NA	
Sample Soil or		Preserved with methanol and/or in an air-tight container	ml methanol
Preservation	Sediment	Methanol preserved (covering sample)	per gram soil:
		Received in air-tight container 1:1 +/- 25%	
Temperature Received on Ice Received at: 4+/-2 C ^o			

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1			Clie	nt ID	Vent @ 90 #2		
Method for Target Analytes: MADEP VPH-18-2.1			L	ab ID	3G26052-03	3G26052-03	
VPH Surrogate Standards:			Date Col	lected	07/24/23	07/24/23	
PID: 2,5-Dibromotoluene			Date Red	ceived	07/26/23		
FID: 2,5-Dibromotoluene			% M	loisture	7.60		
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed	
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	5.7	mg/kg	<5.7	07/27/23 13:38	
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	11.3	mg/kg	<11.3	07/27/23 13:38	
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	07/27/23 13:38	
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	07/27/23 13:38	
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	07/27/23 13:38	
Naphthalene	NA	50X	0.6	mg/kg	<0.6	07/27/23 13:38	
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	07/27/23 13:38	
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	07/27/23 13:38	
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	07/27/23 13:38	
Total xylenes		50X	0.6	mg/kg	<0.6	07/27/23 13:38	
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	5.7	mg/kg	<5.7	07/27/23 13:38	
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	11.3	mg/kg	<11.3	07/27/23 13:38	
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	5.7	mg/kg	<5.7	07/27/23 13:38	
2,5-Dibromotoluene-PID				%	105	07/27/23 13:38	
2,5-Dibromotoluene-FID				%	104	07/27/23 13:38	
Surrogate Acceptance Range				%	70-130		

[1] Hydrocarbon Range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

Volatile Petroleum Hydrocarbons Sample: BOH @ 14' Comp (3G26052-04)

SAMPLE INFORMATION

Matrix	Soil		
Containers	Satisfactory		
	Aqueous	NA	
Sample Soil or		Preserved with methanol and/or in an air-tight container	ml methanol
Preservation	Sediment	Methanol preserved (covering sample)	per gram soil:
		Received in air-tight container 1:1 +/- 25%	
Temperature Received on Ice Received at: 4+/-2 C ^o			

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1			Clie	nt ID	BOH @ 14' Com	р	
Method for Target Analytes: MADEP VPH-18-2.1			L	ab ID	3G26052-04	3G26052-04	
VPH Surrogate Standards:			Date Col	lected	07/24/23		
PID: 2,5-Dibromotoluene			Date Red	ceived	07/26/23		
FID: 2,5-Dibromotoluene			% M	oisture	3.70		
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed	
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	5.6	mg/kg	<5.6	07/27/23 14:11	
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	11.2	mg/kg	<11.2	07/27/23 14:11	
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	07/27/23 14:11	
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	07/27/23 14:11	
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	07/27/23 14:11	
Naphthalene	NA	50X	0.6	mg/kg	<0.6	07/27/23 14:11	
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	07/27/23 14:11	
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	07/27/23 14:11	
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	07/27/23 14:11	
Total xylenes		50X	0.6	mg/kg	<0.6	07/27/23 14:11	
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	5.6	mg/kg	<5.6	07/27/23 14:11	
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	11.2	mg/kg	<11.2	07/27/23 14:11	
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	5.6	mg/kg	<5.6	07/27/23 14:11	
2,5-Dibromotoluene-PID				%	101	07/27/23 14:11	
2,5-Dibromotoluene-FID				%	106	07/27/23 14:11	
Surrogate Acceptance Range				%	70-130		

[1] Hydrocarbon Range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

Extractable Petroleum Hydrocarbons Sample: Feed/Return 2/3 Comp (3G26052-01)

SAMPLE INFORMATION

Matrix	Soil
Containers	Satisfactory
Aqueous Preservatives	NA
Temperature	Received on Ice Received at: 4+/-2 C°
Extraction Method	EPA Method 3546

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 4-1.1				Client ID	Feed/Return 2/3 Comp		
Method for Target Analytes:	Madep EPH 4-1.1			Lab ID	3G26052-01		
EPH Surrogate Standards:		Date Collected			07/24/23		
Aliphatic: Chlorooctadecane			Da	te Received	07/26/23		
Aromatic: o-Terphenyl			D	ate Thawed	NA		
			Dat	e Extracted	07/27/23		
EPH Fractionation Surrogates	:		Perce	nt Moisture	2.50		
(1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene							
RANGE/TARGET ANALYTE	E Contraction of the second	Dilution	RL	Units	Result	Analyzed	
Unadjusted C11-C22 Arom	natic Hydrocarbons [1]	1X	6.80	mg/kg	<6.80	07/31/23 15:33	
	Naphthalene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
Diesel PAH	2-Methylnaphthalene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
Analytes	Phenanthrene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
	Acenaphthene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
	Acenaphthylene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
	Fluorene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
	Anthracene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
	Fluoranthene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
	Pyrene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
	Benzo(a)anthracene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
Other	Chrysene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
Target PAH	Benzo(b)fluoranthene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
Analytes	Benzo(k)fluoranthene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
	Benzo(a)pyrene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
	Indeno(1,2,3-cd)pyrene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
	Dibenz(a,h)anthracene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
	Benzo(g,h,i)perylene	1X	0.34	mg/kg	<0.34	07/31/23 15:33	
C9-C18 Aliphatic Hydrocar	bons [1]	1X	13.6	mg/kg	<13.6	07/31/23 14:44	
C19-C36 Aliphatic Hydrocarbons [1]		1X	13.6	mg/kg	<13.6	07/31/23 14:44	
C11-C22 Aromatic Hydroca	arbons [1,2]	1X	6.80	mg/kg	<6.80	07/31/23 15:33	
Chlorooctadecane (Sample	e Surrogate)			%	74.1	07/31/23 14:44	
o-Terphenyl (Sample Surrogate)				%	75.8	07/31/23 15:33	
2-Fluorobiphenyl (Fraction	ation Surrogate)			%	108	07/31/23 15:33	
2-Bromonaphthalene (Fra	ctionation Surrogate)			%	109	07/31/23 15:33	
Surrogate Acceptance Range [3]			%	40 - 140		

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.

[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.

 $\ensuremath{\left[3\right]}$ See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

Extractable Petroleum Hydrocarbons Sample: Feed/Return 4/5 Comp (3G26052-02)

SAMPLE INFORMATION

Matrix	Soil
Containers	Satisfactory
Aqueous Preservatives	NA
Temperature	Received on Ice Received at: 4+/-2 C°
Extraction Method	EPA Method 3546

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP E	PH 4-1.1			Client ID	Feed/Return 4/5 Comp		
Method for Target Analytes: I	Madep EPH 4-1.1			Lab ID	3G26052-02		
EPH Surrogate Standards:		Date Collected			07/24/23		
Aliphatic: Chlorooctadecane			Da	te Received	07/26/23		
Aromatic: o-Terphenyl			D	ate Thawed	NA		
			Dat	e Extracted	07/27/23		
EPH Fractionation Surrogates	:		Perce	nt Moisture	3.50		
(1) 2-Fluorobiphenyl (2) 2-Bromonanhthalene							
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed	
Unadiusted C11-C22 Arom	atic Hvdrocarbons [1]	1X	6.86	ma/ka	<6.86	07/31/23 14:10	
	Naphthalene	1X	0.34	mg/kg	< 0.34	07/31/23 14:10	
Diesel PAH	2-Methylnaphthalene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
Analytes	Phenanthrene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
	Acenaphthene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
	Acenaphthylene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
	Fluorene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
	Anthracene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
	Fluoranthene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
	Pyrene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
	Benzo(a)anthracene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
Other	Chrysene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
Target PAH	Benzo(b)fluoranthene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
Analytes	Benzo(k)fluoranthene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
	Benzo(a)pyrene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
	Indeno(1,2,3-cd)pyrene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
	Dibenz(a,h)anthracene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
	Benzo(g,h,i)perylene	1X	0.34	mg/kg	<0.34	07/31/23 14:10	
C9-C18 Aliphatic Hydrocarbons [1]		1X	13.7	mg/kg	<13.7	07/31/23 15:08	
C19-C36 Aliphatic Hydroca	arbons [1]	1X	13.7	mg/kg	<13.7	07/31/23 15:08	
C11-C22 Aromatic Hydroca	arbons [1,2]	1X	6.86	mg/kg	<6.86	07/31/23 14:10	
Chlorooctadecane (Sample	e Surrogate)			%	60.5	07/31/23 15:08	
o-Terphenyl (Sample Surro	ogate)			%	52.0	07/31/23 14:10	
2-Fluorobiphenyl (Fraction	ation Surrogate)			%	79.5	07/31/23 14:10	
2-Bromonaphthalene (Frac	ctionation Surrogate)			%	80.6	07/31/23 14:10	
Surrogate Acceptance Range [3]			%	40 - 140		

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.

[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.

 $\ensuremath{\left[3\right]}$ See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

Extractable Petroleum Hydrocarbons Sample: Vent @ 90 #2 (3G26052-03)

SAMPLE INFORMATION

Matrix	Soil
Containers	Satisfactory
Aqueous Preservatives	NA
Temperature	Received on Ice Received at: 4+/-2 C°
Extraction Method	EPA Method 3546

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP E	PH 4-1.1			Client ID	Vent @ 90 #2		
Method for Target Analytes:	Madep EPH 4-1.1	Lab ID			3G26052-03		
EPH Surrogate Standards:		Date Collected			07/24/23		
Aliphatic: Chlorooctadecane			Da	te Received	07/26/23		
Aromatic: o-Terphenyl			D	ate Thawed	NA	NA	
			Dat	e Extracted	07/27/23		
EPH Fractionation Surrogates	:		Perce	nt Moisture	7.60		
(1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene							
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed	
Unadjusted C11-C22 Arom	atic Hydrocarbons [1]	1X	7.17	ma/ka	<7.17	07/31/23 16:01	
	Naphthalene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
Diesel PAH	2-Methylnaphthalene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
Analytes	Phenanthrene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
	Acenaphthene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
	Acenaphthylene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
	Fluorene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
	Anthracene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
	Fluoranthene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
	Pyrene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
	Benzo(a)anthracene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
Other	Chrysene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
Target PAH	Benzo(b)fluoranthene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
Analytes	Benzo(k)fluoranthene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
	Benzo(a)pyrene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
	Indeno(1,2,3-cd)pyrene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
	Dibenz(a,h)anthracene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
	Benzo(g,h,i)perylene	1X	0.35	mg/kg	<0.35	07/31/23 16:01	
C9-C18 Aliphatic Hydrocarbons [1]		1X	14.3	mg/kg	<14.3	07/31/23 15:33	
C19-C36 Aliphatic Hydrocarbons [1]		1X	14.3	mg/kg	<14.3	07/31/23 15:33	
C11-C22 Aromatic Hydroca	arbons [1,2]	1X	7.17	mg/kg	<7.17	07/31/23 16:01	
Chlorooctadecane (Sample	e Surrogate)			%	67.4	07/31/23 15:33	
o-Terphenyl (Sample Surrogate)				%	61.9	07/31/23 16:01	
2-Fluorobiphenyl (Fraction	ation Surrogate)			%	82.5	07/31/23 16:01	
2-Bromonaphthalene (Frac	ctionation Surrogate)			%	82.9	07/31/23 16:01	
Surrogate Acceptance Range [3]			%	40 - 140		

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.

[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.

 $\ensuremath{\left[3\right]}$ See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

Extractable Petroleum Hydrocarbons Sample: BOH @ 14' Comp (3G26052-04)

SAMPLE INFORMATION

Matrix	Soil
Containers	Satisfactory
Aqueous Preservatives	NA
Temperature	Received on Ice Received at: 4+/-2 C°
Extraction Method	EPA Method 3546

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP E	PH 4-1.1			Client ID	BOH @ 14' Comp			
Method for Target Analytes:	Madep EPH 4-1.1			Lab ID	3G26052-04			
EPH Surrogate Standards:			Dat	te Collected	07/24/23			
Aliphatic: Chlorooctadecane			Da	te Received	07/26/23			
Aromatic: o-Terphenyl			D	ate Thawed	NA			
			Dat	e Extracted	07/27/23			
EPH Fractionation Surrogates	:		Perce	nt Moisture	3.70			
(1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene								
RANGE/TARGET ANALYTE	Dilution	RL	Units	Result	Analyzed			
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	6.88	mg/kg	<6.88	07/31/23 14:38		
	Naphthalene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
Diesel PAH	2-Methylnaphthalene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
Analytes	Phenanthrene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
	Acenaphthene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
	Acenaphthylene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
	Fluorene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
	Anthracene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
	Fluoranthene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
	Pyrene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
	Benzo(a)anthracene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
Other	Chrysene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
Target PAH	Benzo(b)fluoranthene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
Analytes	Benzo(k)fluoranthene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
	Benzo(a)pyrene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
	Indeno(1,2,3-cd)pyrene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
	Dibenz(a,h)anthracene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
	Benzo(g,h,i)perylene	1X	0.34	mg/kg	<0.34	07/31/23 14:38		
C9-C18 Aliphatic Hydrocar	bons [1]	1X	13.7	mg/kg	<13.7	07/31/23 15:57		
C19-C36 Aliphatic Hydrocarbons [1]		1X	13.7	mg/kg	<13.7	07/31/23 15:57		
C11-C22 Aromatic Hydrocarbons [1,2]		1X	6.88	mg/kg	<6.88	07/31/23 14:38		
Chlorooctadecane (Sample Surrogate)				%	70.5	07/31/23 15:57		
o-Terphenyl (Sample Surrogate)				%	81.7	07/31/23 14:38		
2-Fluorobiphenyl (Fractionation Surrogate)				%	105	07/31/23 14:38		
2-Bromonaphthalene (Fra	ctionation Surrogate)			%	103	07/31/23 14:38		
Surrogate Acceptance Range [3]			%	40 - 140			

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.

[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.

[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

Quality Control

Volatile Petroleum Hydrocarbons (MADEP-VPH)

Analyte	Result	Oual	Reporting Limit	Units	Spike Level	Source	%REC	%REC	RPD	RPD Limit
	Titouti			011100	2010.	·····	,01120	2		
Batch: B3G1105 - MADEP VPH										
Blank (B3G1105-BLK1)					Prepared 8	& Analyzed: 07	7/27/23			
Unadjusted C5-C8 Aliphatic	ND		5.0	mg/kg						
Hydrocarbons	ND		10.0	ma/ka						
Hydrocarbons	ND		10.0	iiig/itg						
Benzene	ND		0.2	mg/kg						
Ethylbenzene	ND		0.2	mg/kg						
Methyl t-butyl ether (MTBE)	ND		0.05	mg/kg						
Naphthalene	ND		0.5	mg/kg						
Toluene	ND		0.2	mg/kg						
m&p-Xylene	ND		0.5	mg/kg						
o-Xylene	ND		0.5	mg/kg						
Total xylenes	ND		0.5	mg/kg						
C5-C8 Aliphatic Hydrocarbons	ND		5.0	mg/kg						
C9-C12 Aliphatic Hydrocarbons	ND		10.0	mg/kg						
C9-C10 Aromatic Hydrocarbons	ND		5.0	mg/kg						
Surrogate: 2,5- Dibromotoluene-PID			51.4	ug/l	50.0		103	70-130		
Surrogate: 2,5- Dibromotoluene-FID			54.8	ug/l	50.0		110	70-130		
LCS (B3G1105-BS1)					Prepared 8	& Analyzed: 07	7/27/23			
Benzene	2.5		0.2	mg/kg	2.50		98.5	70-130		
Ethylbenzene	2.3		0.2	mg/kg	2.50		93.9	70-130		
Methyl t-butyl ether (MTBE)	2.5		0.05	mg/kg	2.50		100	70-130		
Naphthalene	2.3		0.5	mg/kg	2.50		92.0	70-130		
Toluene	2.4		0.2	mg/kg	2.50		94.7	70-130		
m&p-Xylene	4.5		0.5	mg/kg	5.00		89.5	70-130		
2-Methylpentane	2.4		250	mg/kg	2.50		97.3	70-130		
n-Nonane	2.0		250	mg/kg	2.50		80.8	70-130		
o-Xylene	2.0		0.5	mg/kg	2.50		80.5	70-130		
Decane	2.3		250	mg/kg	2.50		90.2	70-130		
n-Butylcylohexane	2.0		250	mg/kg	2.50		81.8	70-130		
n-Pentane	2.5		250	mg/kg	2.50		98.2	70-130		
1,2,4-Trimethylbenzene	2.2		0.5	mg/kg	2.50		89.1	70-130		
VPH_LCS_Aliphatic_C5-C8	7.4		0.5	mg/kg	7.50		98.1	70-130		
VPH_LCS_Aliphatic_C9-C12	4.3		0.5	mg/kg	5.00		86.0	70-130		
2,2,4-Trimethylpentane	2.5		0.2	mg/kg	2.50		98.8	70-130		
VPH_LCS_Aromatic_C9-C10	2.2		0.5	mg/kg	2.50		89.1	70-130		
Surrogate: 2,5- Dibromotoluene-PID			50.4	ug/l	50.0		101	70-130		
Surrogate: 2,5- Dibromotoluene-FID			51.4	ug/l	50.0		103	70-130		

Quality Control (Continued)

Volatile Petroleum Hydrocarbons (MADEP-VPH) (Continued)

			Reporting		Spike	Source		%REC		RPD
Analyte	Result	Qual	Limit	Units	Level	Result	%REC	Limits	RPD	Limit
Batch: B3G1105 - MADEP VPH (Co	ntinued)									
LCS Dup (B3G1105-BSD1)					Prepared 8	& Analyzed: 07	7/27/23			
Benzene	2.5		0.2	mg/kg	2.50		101	70-130	2.37	25
Ethylbenzene	2.4		0.2	mg/kg	2.50		97.4	70-130	3.64	25
Methyl t-butyl ether (MTBE)	2.5		0.05	mg/kg	2.50		100	70-130	0.219	25
Naphthalene	2.4		0.5	mg/kg	2.50		96.7	70-130	4.94	25
Toluene	2.4		0.2	mg/kg	2.50		97.2	70-130	2.65	25
m&p-Xylene	4.7		0.5	mg/kg	5.00		93.2	70-130	4.09	25
2-Methylpentane	2.5		250	mg/kg	2.50		99.1	70-130	1.81	25
n-Nonane	2.0		250	mg/kg	2.50		78.5	70-130	2.96	25
o-Xylene	2.1		0.5	mg/kg	2.50		83.6	70-130	3.75	25
Decane	2.4		250	mg/kg	2.50		94.4	70-130	4.55	25
n-Butylcylohexane	2.1		250	mg/kg	2.50		84.2	70-130	2.91	25
n-Pentane	2.5		250	mg/kg	2.50		99.4	70-130	1.23	25
1,2,4-Trimethylbenzene	2.3		0.5	mg/kg	2.50		91.6	70-130	2.81	25
VPH_LCS_Aliphatic_C5-C8	7.6		0.5	mg/kg	7.50		101	70-130	2.70	25
VPH_LCS_Aliphatic_C9-C12	4.5		0.5	mg/kg	5.00		89.3	70-130	3.78	25
2,2,4-Trimethylpentane	2.6		0.2	mg/kg	2.50		104	70-130	4.98	25
VPH_LCS_Aromatic_C9-C10	2.3		0.5	mg/kg	2.50		91.6	70-130	2.81	25
Surrogate: 2,5- Dibromotoluene-PID			50.0	ug/l	50.0		99.9	70-130		
Surrogate: 2,5- Dibromotoluene-FID			54.0	ug/l	50.0		108	70-130		

Item	Definition
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.

New England Testing Laboratory

59 Greenhill Street West Warwick, RI 02893



N,



Chain of Custody Record

Project No. K11482	Project Na Closure (1	ime/ 40 C	Loca Old C	ation: Town of Barnstable UST Dyster Rd, Cotuit MA)									Т	ests	\$ **	<u> </u>			
Client: B	ennett Envir	onm	enta	l Associates, LLC		Vlatr	ix			-									
Report To: jtadema-wiel Invoice To:	John Taden andt@nsuw Kara Risk -	na-W vater. krisk	/ielai .com @ns	ndt uwater.com; Denise Agans -					servative										
dagans@nsi Date Sampled	Time	Comp	Grab	Sample I.D.	Aqueous	Soil	Other	No. of Containers	Pres	EPH w/ PAHs	VPH w/ BTEX								,
7/24/2023	11:05am	X	<u> </u>	Feed/Return 2/3 Comp	-	X		2 • •	lce	X	X				†				
7/24/2023	11:10am	X		Feed/Return 4/5 Comp		X		2. •	Ice	Х	X				1				
7/24/2023	1:00pm		X	Vent @ 90 #2		Х		2 • •	lce	X	Х					1			
7/24/2023	5:45pm	X		BOH @ 14' Comp		X		2. •	lce	X	Х								
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JANO	NPad	lo	712	6 1. Atom 9/26														Pa	age 16 of 17
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	MassDEP Analytical Protocol Certification Form											
Labo	oratory Na	ame: New England	d Testing Laboratory	, Inc.	Project #: K11482							
Proje	ect Locati	on: Cotuit, MA			RTN:							
This 3	Form pro	ovides certificatio	ons for the followin	g data set: list Lab	ooratory Sample ID N	lumber(s):						
Matri	ces: 🗆 G	roundwater/Surfac	ce Water 🗵 Soil/Se	diment 🛛 Drinking	Water 🛛 Air 🗆 Oth	ier:						
CAM	Protoc	ol (check all that a	apply below):									
8260 CAM	VOC II A □	7470/7471 Hg CAM III B □	MassDEP VPH (GC/PID/FID) CAM IV A ⊠	8082 PCB CAM V A □	9014 Total Cyanide/PAC CAM VI A □	6860 Perchlorate CAM VIII B □						
8270 CAM	SVOC II B □	7010 Metals CAM III C □	MassDEP VPH (GC/MS) CAM IV C □	8081 Pesticides CAM V B □	7196 Hex Cr CAM VI B □	MassDEP APH CAM IX A □						
6010 CAM	6010 Metals CAM III A6020 Metals CAM III DMassDEP EPH CAM IV B8151 Herbicides CAM V C8330 Explosives CAM VIII ATO-15 VOC 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												
с	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 "Quality Analytica	e laboratory report Assurance and C al Data"?	comply with all the re quality Control Guide	porting requirements lines for the Acquis	specified in CAM VII A ition and Reporting c	,, of ⊠Yes □No						
Е	VPH, EP a. VPH, modifica b. APH a	PH, APH, and TO-15 EPH, and APH I tion(s)? (Refer to the and TO-15 Methods	only Methods only: Was e individual method(s) only: Was the complet	each method condu for a list of significant te analyte list reported	icted without significar modifications). I for each method?	ıt ⊠ Yes □ No □ Yes □ No						
F	Were all and eval	applicable CAM prused in a laborator	otocol QC and perform y narrative (including a	mance standard non- Ill "No" responses to C	conformances identifie Questions A through E)?	d ⊠ Yes □ No						
Res	sponses	to Questions G,	H and I below are re	equired for "Presu	mptive Certainty" st	tatus						
G	Were the protocol	e reporting limits at ((s)?	or below all CAM repor	ting limits specified in	the selected CAM	⊠ Yes □ No ¹						
<u>Da</u> re	ata User Ne presentati	<u>ote</u> : Data that achiev veness requirements	ve "Presumptive Certain s described in 310 CMR	nty" status may not ne 40. 1056 (2)(k) and WS	cessarily meet the data (SC-07-350.	usability and						
н	Were all	QC performance st	andards specified in th	ne CAM protocol(s) ac	chieved?	⊠ Yes □ No ¹						
I	I Were results reported for the complete analyte list specified in the selected CAM protocol(s)? ⊠ Yes □ No ¹											
¹ All I	¹ All negative responses must be addressed in an attached laboratory narrative.											
l, the respo and be	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, is accurate and complete.											
Sign	ature: 🖗	ACUDA		Positio	DN: Laboratory Director							
Prin	ted Name	e: Richard Warila		Date:_	8/1/2023							

NETLAB Case Number: 3G26052 Lab Sample Number: Date Sampled: Date Received:		Feed/Return 2/3 Comp 3G26052-01 7/24/2023 11:05 7/26/2023 15:19		Feed/Return 4/5 Comp 3G26052-02 7/24/2023 11:10 7/26/2023 15:19		Vent @ 90 #2 3G26052-03 7/24/2023 13:00 7/26/2023 15:19		BOH @ 14' Comp 3G26052-04 7/24/2023 17:45 7/26/2023 15:19			
Parameter	CAS Number	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Units	MassDEP Reportable Concentration S-1
Extractable Petroleum Hydrocarbons (MA	DEP-EPH)										
Unadjusted C11-C22 Aromatic Hydrocarbor	15	ND	6.8	ND	6.86	ND	7.17	ND	6.88	mg/kg	
Naphthalene	91-20-3	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	4
2-Methylnaphthalene	91-57-6	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	0.7
Phenanthrene	85-01-8	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	10
Acenaphthene	83-32-9	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	4
Acenaphthylene	208-96-8	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	1
Fluorene	86-73-7	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	1000
Anthracene	120-12-7	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	1000
Fluoranthene	206-44-0	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	1000
Pyrene	129-00-0	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	1000
Benzo(a)anthracene	56-55-3	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	7
Chrysene	218-01-9	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	70
Benzo(b)fluoranthene	205-99-2	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	7
Benzo(k)fluoranthene	207-08-9	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	70
Benzo(a)pyrene	50-32-8	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	2
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	7
Dibenz(a,h)anthracene	53-70-3	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	0.7
Benzo(g,h,i)perylene	191-24-2	ND	0.34	ND	0.34	ND	0.35	ND	0.34	mg/kg	1000
C9-C18 Aliphatic Hydrocarbons	C9-C18-Ali	ND	13.6	ND	13.7	ND	14.3	ND	13.7	mg/kg	1000
C19-C36 Aliphatic Hydrocarbons	C19-C36-Ali	ND	13.6	ND	13.7	ND	14.3	ND	13.7	mg/kg	3000
C11-C22 Aromatic Hydrocarbons	C11-C22-Aro	ND	6.8	ND	6.86	ND	7.17	ND	6.88	mg/kg	1000
Volatile Petroleum Hydrocarbons (MADEP	-VPH)										
Unadjusted C5-C8 Aliphatic Hydrocarbons		9.1	5.8	ND	5.8	ND	5.7	ND	5.6	mg/kg	
Unadjusted C9-C12 Aliphatic Hydrocarbons		14.3	11.7	ND	11.6	ND	11.3	ND	11.2	mg/kg	
Benzene	71-43-2	ND	0.3	ND	0.3	ND	0.3	ND	0.3	mg/kg	2
Ethylbenzene	100-41-4	ND	0.3	ND	0.3	ND	0.3	ND	0.3	mg/kg	40
, Methyl t-butyl ether (MTBE)	1634-04-4	ND	0.06	ND	0.06	ND	0.06	ND	0.06	mg/kg	0.1
Naphthalene	91-20-3	ND	0.6	ND	0.6	ND	0.6	ND	0.6	mg/kg	4
Toluene	108-88-3	ND	0.3	ND	0.3	ND	0.3	ND	0.3	mg/kg	30
m&p-Xvlene	1330-20-7	ND	0.6	ND	0.6	ND	0.6	ND	0.6	mg/kg	see Total xylenes
o-Xvlene	95-47-6	ND	0.6	ND	0.6	ND	0.6	ND	0.6	mg/kg	see Total xylenes
Total xylenes	1330-20-7	ND	0.6	ND	0.6	ND	0.6	ND	0.6	mg/kg	100
C5-C8 Aliphatic Hydrocarbons	C5-C8-Ali	9.1	5.8	ND	5.8	ND	5.7	ND	5.6	mg/kg	100
C9-C12 Aliphatic Hydrocarbons	C9-C1-Ali	14.3	11.7	ND	11.6	ND	11.3	ND	11.2	mg/kg	1000
C9-C10 Aromatic Hydrocarbons	C9-C10-Aro	ND	5.8	ND	5.8	ND	5.7	ND	5.6	mg/kg	100



Massachusetts Department of Environmental Protection Bureau of Air & Waste Underground Storage Tank (UST) Program

Former Cotuit Elementary UST Facility

UST1 – Cover Sheet/Certification

UST Facility ID #

Important: When filling out forms on	Check the appropriate category(s). Complete and	attach ONLY the required	l forms.		
the computer, use only the tab key to	Register a New Facility and/or Owner	Register a UST System Rem	oval/Closure & Assessment		
move your cursor - do not use the return key.	UST2–Owner/Operator & Facility Registration	⊠ UST 6–UST System Attached	n Removal/Closure in Place		
Tab	UST3–Financial Responsibility Registration Attached	Update Existing Owner/Operator/Facility Information			
return	UST4–Tank, Piping & Component Registration Attached	UST2–Owner/Oper Attached	ator/Facility Registration		
Notes:	Register a New UST System & Components	Update Financial Respon	sibility Information		
 If this is a new facility registration, MassDEP will 	UST4–Tank, Piping & Component Registration Attached	UST3–Financial Re Attached	sponsibility Registration		
provide you with a Facility Account	Register a Change of Tank Status/Product	Update Existing UST Syst	tem/Component Information		
NumberA New Facility	UST5–Change of Tank Status/Product Attached	UST4–Tank, Piping Attached	& Component Registration		
 the tank(s) receiving regulated product. A New Owner must be registered within 30 days of taking ownership. 	A. Legal Owner Of UST(S) Town of Barnstable a. Individual/Entity Name Mark S. Ells b. Contact Name 367 Main St. d. Address 1 – Note: Enter Mailing Address of the Owner Co	mark.ells@town.barns c. Contact Email Address	stable.ma.us		
	e. Address 2		00004		
	f. City/Town	g. State	h. Zip Code		
ļ	B. UST Facility Information				
	Former Cotuit Elementary School / Waldorf Scho	ol			
	a. Facility Name 140 Old Ovster Road				
	b. Address 1 – Note: Enter Physical Street Address (No P.O.	Boxes).			
	c. Address 2				
	Cotuit (Barnstable)	MA	02635		
	а. Слу/тоwп	e. Siale			

Continue to Next Page ►



Massachusetts Department of Environmental Protection Bureau of Air & Waste Underground Storage Tank (UST) Program

UST1 – Cover Sheet/Certification

Former Cotuit Elementary UST Facility

UST Facility ID #

Notes:

C. Certification Statement

• The Owner must retain a copy of the registration until the UST system is removed or permanently closed in accordance with 310 CMR 80.43(2) or (3).

• Forms may be scanned and submitted electronically to <u>dep.ust@state.ma.us</u> or mailed to:

MassDEP UST Program P.O. Box 120-165 Boston, MA 02112-0165 Important: A new Facility registration and new Owner registration must be certified only by the Owner. The Owner may designate the Operator to certify updated registration submittals.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment." i am the Facility's 🛛 Owner 🖾 Operator

Mark S. Ells 1. Print Name

CATown of Barnstable

2. Owner/Operator Entity Name

3. Signature 69 15/2022

4. Date Signed (MM/DD/YYYY)

Source of Signatory Authority (check only one box below):

If a Corporation or Non-Profit Corporation:

- a. 🗌 President
- b. 🗌 Secretary
- c. 🗌 Treasurer
- d. Uce President (if authorized to bind the corporation)
- Employee of the Corporation (if authorized to bind the corporation)

If a Limited Liability Company (LLC):

f. Person authorized to bind the company

If a Partnership:

g. General Partner (if authorized to bind the partnership)

If a Sole Proprietorship:

h. 🗌 Proprietor

If a Municipality or Public Agency:

- i. X Principal Executive Officer
- j. Ranking Elected Official (if authorized to bind the municipality or public agency)

If a Trust:

k.
□ Trustee or Other Person authorized to bind the trust



Massachusetts Department of Environmental Protection

Bureau of Air & Waste Underground Storage Tank (UST) Program

UST6 – System Removal/Closure in Place

Former Cotuit Elementary UST Facility Name

UST Facility ID #

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Notes:

• Make additional copies as needed.

• If you are replacing a removed tank with a new tank in the same location at the facility, you must register the new tank with MassDEP.

• For unregistered tanks, answer the questions in the appropriate sections. There will be no UST Facility Number assigned to tank systems found at unregistered facilities.

 Check the appropriate action(s) below. Complete ONLY the appropriate section(s) and submit with the UST1-Cover Sheet/Certification Form.

 UST System Removal/Closure Sections A.1.& B.
 UST System Permanent Closure in Place Sections A.2. & B

 Removal of Unregistered UST System Sections A.1., A.3. & B.
 Permanent Closure of Unregistered UST System Sections A.2., A.3. & B

A. UST System Removal/Closure

1. ເ	JST System Removal				
		Tank #1 Tank ID	Tank ID	Tank ID	Tank ID
a.	Date of tank removal:	07/24/23 MM/DD/YYYY	MM/DD/YYYY	MM/DD/YYYY	MM/DD/YYYY
b.	Were all regulated substances removed from the tank managed per applicable requirements?	🛛 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No
C.	Was the tank system rendered inert per 310 CMR 80.47?	🛛 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No
d.	Were all openings secured?	🛛 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No
e.	Was all piping removed?	🛛 Yes 🗌 No	□ Yes □ No	□ Yes □ No	☐ Yes ☐ No
f.	Capacity of Tank:	10,000 Gallons	Gallons	Gallons	Gallons

2.	UST System Permanent Closure i	n Place			
		Tank ID	Tank ID	Tank ID	Tank ID
a.	Date of closure in place:	MM/DD/YYYY	MM/DD/YYYY	MM/DD/YYYY	MM/DD/YYYY
b.	Has a registered professional civil or structural engineer determined that the tank cannot be removed without endangering the structural integrity of another UST system, structure, underground piping or underground utilities, per 310 CMR 80.43(3)(a)(1)?	🗌 Yes 📄 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 📄 No
C.	Were all regulated substances removed from the tank managed per applicable requirements?	🗌 Yes 🗌 No			
d.	Was the tank system rendered inert per 310 CMR 80.47?	🗌 Yes 🗌 No			
e.	Was the tank filled with appropriate material (e.g. concrete slurry mix or approved inert material)?	🗌 Yes 🗌 No			
f.	Capacity of Tank:	Gallons	Gallons	Gallons	Gallons



Massachusetts Department of Environmental Protection Bureau of Air & Waste Underground Storage Tank (UST) Program

Former Cotuit Elementary
UST Facility Name

UST6 – System Removal/Closure in Place

A. UST Removal/Closure (continued)

UST Facility ID #

Notes:

• Make additional copies as needed.

• Removal/closure of a **consumptive use** tank with a capacity of greater than 1,100 gallons must comply with the requirements of 310 CMR 80.43 & 80.47

3. Removal/Permanent Closure of Unregistered UST System									
	Tank 1	Tank 2	Tank 3	Tank 4					
If unregistered, where was this tank	-70.44085								
located?	Longitude	Longitude	Longitude	Longitude					
	41.62390								
	Latitude	Latitude	Latitude	Latitude					

B. Assessment of Release at Removal or Closure

	Tank #1 Tank ID	Tank ID	Tank ID	Tank ID
Was an assessment conducted in accordance with 310 CMR 80.43(4) within 24 hours of the removal or before the closure in place was completed?	🛛 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No