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City of New Bedford, Massachusetts
Weston & Sampson Project No. 2100451

August 2, 2012

City of New Bedford
Ms. Cheryl Henlin
Environmental Planner
Department of Environmental Stewardship
133 Williams Street
New Bedford, Massachusetts 02740

Re: Additional Phase II Environmental Site Assessment (ESA)
478-480 Union Street
New Bedford, Massachusetts

Dear Ms. Henlin:

Weston & Sampson is pleased to submit this letter report summarizing the results of an Additional Phase II Environmental Site Assessment (ESA) performed at 478-480 Union Street, New Bedford, Massachusetts (the "Site"), see Figure 1. As you are aware, Weston & Sampson previously performed a Phase I and Phase II ESA of the Site on behalf of the City of New Bedford. Results of the assessment were detailed in our Phase I and Phase II ESA Report, 478-480 Union Street, New Bedford, Massachusetts, dated August 2011.

As detailed in our report, the Site consists of an undeveloped 0.42 acre parcel of land. An automobile service garage existed at the Site between 1915 and the late 1970's. Numerous underground storage tanks (USTs) were historically located at the Site. Information regarding the assessment and closure of the USTs is very limited. Weston & Sampson performed an initial Phase II ESA at the Site in the spring of 2011 which included the performance of a geophysical survey, excavation of 9 test pits, advancement of 11 soil borings, installation of 8 groundwater monitoring wells, and soil/groundwater sampling and analysis. Results of the Phase II ESA identified petroleum impacted soil in exceedance of applicable Massachusetts Department of Environmental Protection (DEP) reportable concentration (RC) S-1 standards at the Site. The impacted soils were identified on the northwestern and northern portion of the Site in the area of former gasoline USTs and on the western portion of the Site in the area of former fuel oil USTs. Additionally, a concentration of Lead was identified in fill material soils on the northern portion of the Site above the RCS-1 standard.

The identification of soil impacted above RCS-1 standards represented a 120-day reportable release condition to the DEP. On October 3, 2011, Weston & Sampson reported the release condition to the DEP on behalf of the City of New Bedford. At that time the DEP assigned Release Tracking Number (RTN) 4-23596 to the Site.

Weston & Sampson performed an Additional Phase II ESA at the Site in May 2012. The purpose of the assessment was to further assess the nature and extent of impacted soil and groundwater at the Site. The assessment included:

- Advancement of thirteen (13) soil borings.

- Installation of two (2) monitoring wells.
- Field screening soil for the presence of total volatile organics.
- Collection and analysis of soil and groundwater samples.

The following is a summary of the results of the assessment. Please see Figure 2 for a depiction of the Site sample locations.

SOIL BORING / MONITORING WELL INSTALLATION

On May 11, 2012, Weston & Sampson documented the advancement of 13 soil borings (WS-12 through WS-24) at the Site. The borings were advanced by New England Geotech of Jamestown, Rhode Island utilizing Geoprobe drilling techniques. Two (2) of the borings (WS-12 and WS-23) were completed as groundwater monitoring wells. As depicted in Figure 2, the soil borings were installed in the following areas:

Area 1 - Former Gasoline USTs - Northwestern Portion of Site: Borings WS-12 through 15 were advanced. WS-12 was completed as a groundwater monitoring well.

Area 2 - Former Gasoline USTs - Northern Portion of Site: Borings WS-16 through 19 were advanced.

Area 3 - Former Fuel Oil USTs - Western Portion of Site: Borings WS-20 through 24 were advanced. WS-23 was completed as a groundwater monitoring well.

The borings were installed to depths between 15 and 20 feet below grade surface (bgs). Monitoring wells WS-12 and WS-23 were installed at 16 and 18 feet bgs, respectively. Boring logs and groundwater monitoring well construction logs are included as Appendix A.

SOIL AND GROUNDWATER SAMPLING

Soil samples were collected by a Weston & Sampson geologist from each soil boring at continuous intervals during the advancement of the borings. In general, soils encountered consisted of fine to medium sand and gravel with some cobbles to depths of approximately 10 to 13 feet bgs; followed by silty sand from approximately 10 to 18 feet bgs; and fine to course sand and gravel from 18 to 20 feet bgs, the maximum depth of investigation. Fill material was identified in each of the areas of investigation at varying depths ranging from 0 feet to approximately 10 feet bgs. The overlying fill consisted of fine to coarse sand with some ash, and some brick and weathered concrete pieces.

Each soil sample was field-screened for visual and olfactory evidence of impacts (odor, color, staining, etc.), and total volatile organics (TVOCs) using a photoionization detector (PID). Field screening of the soil samples from the respective areas detected concentrations of TVOCs ranging from 5.4 to 2,478 parts per million by volume (ppmv) as identified in Tables 1a, 1b and 1c. Complete field screening results are included in the attached boring logs.

Eighteen (18) soil samples were selected for analysis based on location and field screening results, and to obtain data for risk characterization purposes. The samples were placed in pre-labeled laboratory supplied containers, preserved on ice in a cooler, and transported to Premier Laboratory, Inc. in Dayville, Connecticut for varying laboratory analyses including Extractable Petroleum Hydrocarbons (EPH) with targeted Polynuclear Aromatic Hydrocarbons (PAHs) via DEP methodology, Volatile Petroleum Hydrocarbons (VPH) with targeted Volatile Organic

Compounds (VOCs) via DEP methodology, and Trace Metals (Lead) via EPA method 6010B. Summary tables of the soil analytical results are attached as Tables 2a and 2b. Complete copies of laboratory analytical reports are attached as Appendix B.

On May 25, 2012, Weston & Sampson collected groundwater samples from each of the newly installed groundwater monitoring wells (WS-12 and 23) using EPA's low flow groundwater sampling procedures. Parameters including pH, temperature, specific conductivity, dissolved oxygen, oxidation reduction potential (ORP) and turbidity were recorded using a groundwater quality meter. Groundwater samples were collected from the monitoring wells upon parameter stabilization. The groundwater samples were submitted to Premier Laboratory for varying laboratory analyses including EPH with targeted PAHs and VPH with targeted VOCs. A summary table of the groundwater analytical results is attached as Table 3. Complete copies of laboratory analytical reports are attached as Appendix B.

SUMMARY OF FIELD SCREENING AND ANALYTICAL RESULTS

As shown the attached tables, Weston & Sampson's field screening and analysis of soil and groundwater samples detected the following:

Area 1 - Former Gasoline USTs - Northwestern Portion of Site: Field screening of soil samples collected from borings WS-12, 14 and 15 identified impacted soil between 12.5 and 18 feet bgs with TVOCs ranging from 101.7 to 2,478 ppmv. Analysis of soil samples WS-12 (13.5-15') and WS-15 (13.5-15') identified VPH fractions above DEP Method 1 S-1 soil standards. Analysis of samples WS-13 (13.5-15') and WS-14 (13.5-15') identified VPH fractions below S-1 standards. Targeted VOCs were not detected above S-1 standards in any of the soil samples. Analysis of the groundwater sample collected from monitoring well WS-12 did not identify detectable concentrations of VPH or targeted VOCs.

Area 2 - Former Gasoline USTs - Northern Portion of Site: Field screening of soil samples collected from borings WS-16, 17 and 19 identified impacted soil between 10 and 19 feet bgs with TVOCs ranging from 101.7 to 1,652 ppmv. Analysis of soil samples WS-16 (15-19') and WS-17 (15-19') identified VPH fractions above S-1 soil standards. Concentrations identified in WS-16 (15-19') were also above S-3 standards. Analysis of samples WS-18 (15-19') and WS-19 (15-19') did not identified detectable concentrations of VPH. Targeted VOC were not detected above S-1 standards in any of the soil samples. Analysis of soil sample WS-19 (0-5') identified a concentration of Lead at the S-1 standard. Analysis of soil samples WS-16 (0-5'), WS-17 (0-5') and WS-18 (0-5') identified concentrations of Lead below the S-1 standard.

Area 3 - Former Fuel Oil USTs - Western Portion of Site: Field screening of soil samples collected from borings WS-20, 21, 22, 23 and 24 identified impacted soil between 11 and 15 feet bgs with TVOCs ranging from 121.8 to 385.9 ppmv. Analysis of soil samples WS-20 (13-15'), WS-21 (13-15'), WS-22 (13-15'), WS-23 (13-15') and WS-24 (13-15') identified concentrations of EPH, PAHs, and VPH fractions above S-1 standards. In addition, concentrations of EPH fractions were also identified above Method 3 Upper Concentration Limits (UCLs) in samples WS-20 (13-15'), WS-21 (13-15') and WS-23 (13-15'). Analysis of the groundwater sample collected from monitoring well WS-23 identified detectable concentrations of EPH, PAHs, VPH and targeted VOCs below applicable Method 1 GW-2/3 standards.

CONCLUSIONS

In summary, the results of the assessments performed to date have confirmed that petroleum impacted soil remains in the following areas of the Site:

Area 1 - Former Gasoline USTs - Northwestern Portion of Site: Petroleum impacted soil exists in this area above S-1 standards with maximum concentrations located between 10 and 19 feet bgs. Additional assessment is required to evaluate potential impacts to the neighboring property to the west.

Area 2 - Former Gasoline USTs - Northern Portion of Site: Petroleum impacted soil exists in this area above S-1 standards with maximum concentrations located between 10 and 19 feet bgs.

Area 3 - Former Fuel Oil USTs - Western Portion of Site: Petroleum impacted soil exists in this area above S-1 standards and UCLs with maximum concentrations located between 11 and 15 feet bgs. Additional assessment is required to evaluate potential impacts to the neighboring property to the west and south.

Analysis of groundwater samples collected throughout the Site has not identified detectable concentrations above applicable GW-2/3 standards.

RECOMMENDATIONS

Based on the results of our assessments performed at the Site, Weston & Sampson recommends the following:

1) Additional assessment should be performed to determine the possible extent of impacts to neighboring properties to the west and south of the Site. Additional assessment should also be performed at the Site to confirm the nature and extent of impacts and collect additional data for remedial planning / risk characterization purposes.

2) Preparation of a Phase I Initial Site Investigation and Report and Tier Classification for submittal to the DEP. A Phase I Report and Tier Classification submittal is due on October 3, 2012 for the Site (RTN 4-23596). Assessment activities performed to date are sufficient for the preparation of this submittal.

If you have any questions regarding this letter report, please do not hesitate to contact the undersigned at (978) 532-1900.

Very truly yours,
WESTON & SAMPSON INC.

Sean Healey

Sean F. Healey, LSP
Project Manager

George D. Naslas

George Naslas, P.G., LSP
Associate

Attachments: Figures, Tables, Appendix A, B

FIGURES

FIGURE 1
NEW BEDFORD, MASSACHUSETTS
478-480 UNION STREET

LOCUS MAP

0 2,000 4,000 Feet

Weston&Sampson

O:\New Bedford\Reports\Union Street Site\Figure 1 - Locus Map.mxd 9/10/2010 12:01:45 PM commonuse

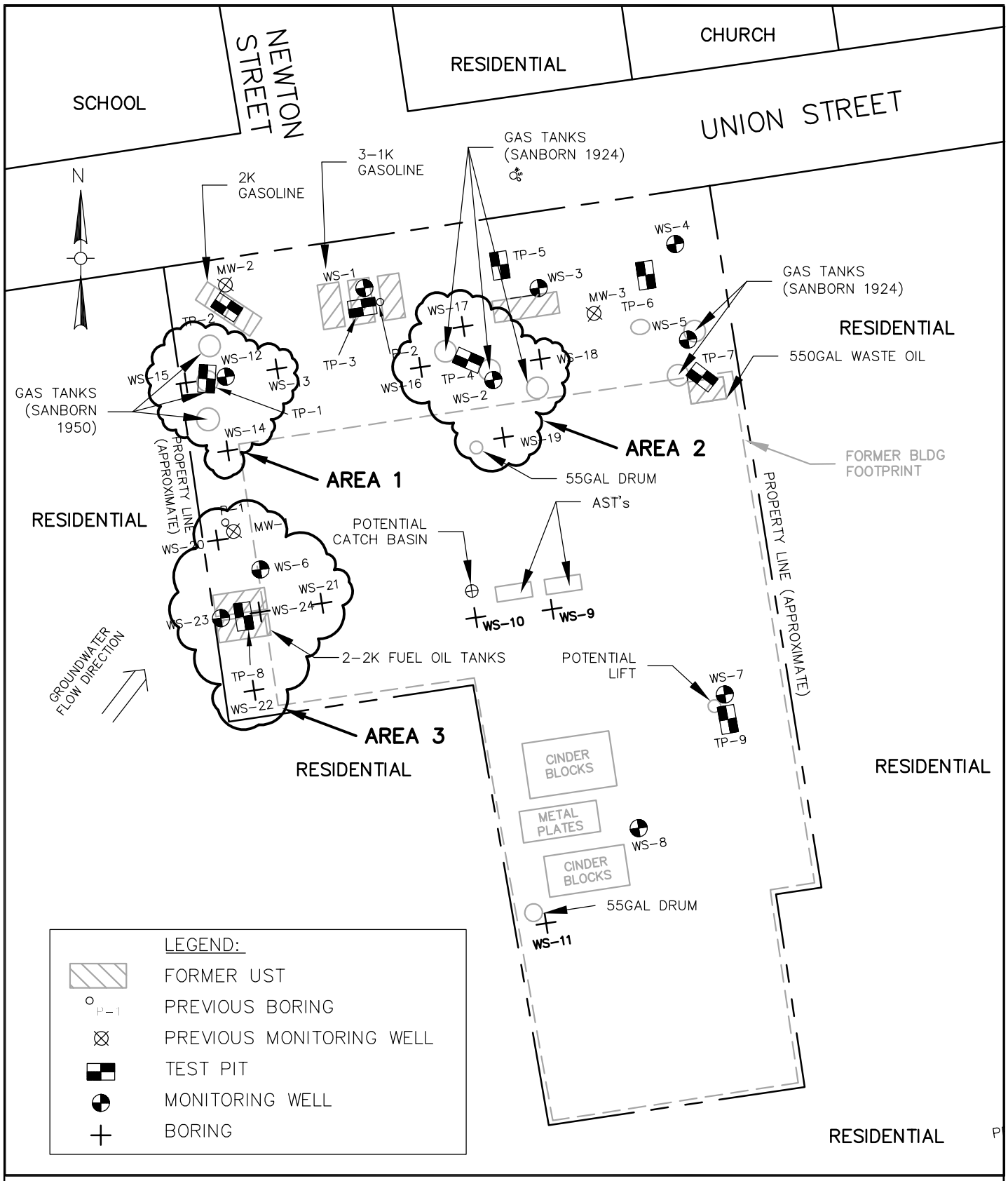

FIGURE 2
478-480 UNION STREET
NEW BEDFORD, MASSACHUSETTS

SITE PLAN

SCALE: 1"=30'

0 30 60

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TABLES

Table 1a Area 1 Former Gasoline USTs - Northwestern Portion of Site (1950 Sanborn) Field Screening Results – Soil Sampling		
Location	**Sample ID**	**TVOCs (ppmv)**
Area of Former Gasoline USTs - Northwestern Portion of Site (1950 Sanborn)	TP-1 (6-9’)	31.9
	TP-1 (10-12’)	360
	WS-12 (13.5-15’)	2,478
	WS-12 (15-16’)	1,044
	WS-12 (16-18’)	101.7
	WS-12 (16-18’)	23.3
	WS-13 (13.5 -15)	19.5
	WS-14 (7-10’)	335.1
	WS-14 (13.5-15’)	173.8
	WS-14 (15-19’)	160
	WS-14 (19-20’)	19.1
	WS-15 (12.5-13.5’)	847.1
	WS-15 (13.5-15’)	1,566
	WS-15 (15-19’)	1,175
	WS-15 (19 -20’)	37.1

Table 1b Area 2 Former Gasoline USTs - Northern Portion of Site (1924 Sanborn) Field Screening Results – Soil Sampling		
Location	**Sample ID**	**TVOCs (ppmv)**
Area of Former Gasoline USTs - Northern Portion of Site (1924 Sanborn)	TP-4 (11.5-12.5’)	249
	WS-2 (10-15’) WS-2 (15-19’) WS-2 (19-20’)	518 564 25
	WS-16 (10-13’) WS-16 (13-15’) WS-16 (15-17’) WS-16 (17-20’)	1,355 1,208 935.2 981.3
	WS-17 (13-15’) WS-17 (15-19’) WS-17 (19-20’)	1,652 971 52.6
	WS-18 (13-15’) WS-18 (15-18’) WS-18 (18-20)	18.7 28.7 27.2
	WS-19 (10-15’) WS-19 (15-19’) WS-19 (19-20’)	47.6 101.7 130

Table 1c Area 3 Former 2K Fuel Oil USTs - Western Portion of Site Field Screening Results – Soil Sampling		
Location	**Sample ID**	**TVOCs (ppmv)**
Area of Former Gasoline USTs - Northern Portion of Site (1924 Sanborn)	TP-8 (7-9’)	78
	WS-6 (8-10’) WS-6 (10-15’)	248 155
	WS-20 (12-14’) WS-20 (14-15’) WS-20 (15-19’) WS-20 (19-20’)	12.8 284 121.8 9.6
	WS-21 (8-10’) WS-21 (10-12’) WS-21 (12-15’) WS-21 (15-18’) WS-21 (18-20’)	268.4 211.5 385.9 70.8 5.4
	WS-22 (5-7’) WS-22 (7-10’) WS-22 (10-11’) WS-22 (11-15’) WS-22 (15-20)	19.8 1.7 1.9 141.2 30.3
	WS-23 (13-15’) WS-23 (15-17’) WS-23 (17-19’)	206.9 123.5 41.6
	WS-24 (10-12’) WS-23 (12-13’) WS-23 (13-15’)	265.3 281.4 300.4

Table 2a
Weston & Sampson
Summary of Soil Analytical Results
478-480 Union Street
New Bedford, MA

Sample ID	TP-1 (10-12')	TP-2 (6-9')	DUP-1 TP-2 6-9'	TP-3 (9-12')	TP-4 (2-5')	TP-4 (11.5-12.5')	TP-5 (10-13')	TP-6 (7-9')	TP-7 (9-11')	TP-8 (7-9')	TP-9 (9-11')	Method 1 Soil Standards	
Date Sampled	4/14/11	4/14/11	4/14/11	4/14/11	4/14/11	4/14/11	4/14/11	4/15/11	4/15/11	4/15/11	4/15/11	S1/GW2	S1/GW3
Parameters (mg/kg)												mg/kg	mg/kg
EPH													
C9-C18 Aliphatics	--	--	--	--	--	--	--	--	<34	**1,800**	<32	1,000	1,000
C19-C36 Aliphatics	--	--	--	--	--	--	--	--	<34	**320**	<32	3,000	3,000
C11-C22 Aromatics	--	--	--	--	--	--	--	--	<34	**1,400**	<32	1,000	1,000
PAH's													
Acenapthene	--	--	--	--	<0.55	--	--	--	<0.56	**2.1**	<0.54	1,000	1,000
Acenaphthylene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	600	10
Anthracene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	1,000	1,000
Benzo(a)anthracene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	7	7
Benzo(a)pyrene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	2	2
Benzo(b)fluoranthene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	7	7
Benzo(g,h,i)perylene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	1,000	1,000
Benzo(k)fluoranthene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	70	70
Chrysene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	70	70
Dibenzo(a,h)anthracene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	0.7	0.7
Fluoranthene	--	--	--	--	**0.56**	--	--	--	<0.56	**2.0**	<0.54	1,000	1,000
Fluorene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	1,000	1,000
Indeno(1,2,3-cd) Pyrene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	7	7
2-Methylnaphthalene	--	--	--	--	<0.55	--	--	--	<0.56	**2.2**	<0.54	80	300
Naphthalene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	40	500
Phenanthrene	--	--	--	--	<0.55	--	--	--	<0.56	**2.4**	<0.54	500	500
Pyrene	--	--	--	--	<0.55	--	--	--	<0.56	<0.55	<0.54	1,000	1,000
VPH													
C5-C8 Aliphatics	**45**	**2.6**	**2.4**	**6.2**	**2.8**	**1.7**	<1.0	<1.1	<1.0	**7.4**	<1.2	100	100
C9-C12 Aliphatics	**430**	<1.2	<1.0	**63**	<1.4	**18**	<1.0	<1.1	<1.0	**120**	<1.2	1,000	1,000
C9-C10 Aromatics	**480**	<1.2	<1.0	**53**	<1.4	**16**	<1.0	<1.1	<1.0	**180**	<1.2	100	100
Targeted VOCs													
Benzene	<1.6	**0.14**	**0.13**	<0.22	--	<0.11	<0.10	<0.11	--	<0.29	--	30	30
Toluene	<1.6	**0.39**	**0.38**	<0.22	--	<0.11	<0.10	<0.11	--	<0.29	--	500	500
Ethylbenzene	**10**	<0.12	<0.10	**0.88**	--	**0.23**	<0.10	<0.11	--	**0.74**	--	500	500
Napthalene	<4.0	<0.30	<0.26	<0.55	--	<0.27	<0.26	<0.27	--	**11**	--	40	500
Total Xylenes	**5.8**	**0.59**	**0.55**	**0.27**	--	<0.11	<0.10	<0.11	--	**0.96**	--	300	500
VOCs 8260	--	--	--	--	ND	--	--	--	ND	--	ND	**	**
Trace Metals													
Arsenic	--	<3.5	--	--	<3.5	--	--	--	<3.3	--	<3.3	20	20
Barium	--	**31**	--	--	**120**	--	--	--	**40**	--	**18**	1,000	1,000
Cadmium	--	<0.58	--	--	**0.59**	--	--	--	<0.56	--	<0.55	2	2
Chromium	--	**8.1**	--	--	**12**	--	--	--	**13**	--	**9.6**	30	30
Lead	**10**	**22**	--	<5.3	**370**	<5.3	--	--	<5.6	--	<5.5	300	300
Mercury	--	**0.044**	--	--	<0.34	--	--	--	<0.19	--	<0.018	20	20
PCBs	--	--	--	--	<.093	--			<.088	--	<.082	2	2

Notes:
"--" = Not Analayzed
NS = No Standard
ND= Not Detected. Detection Limit Varies
EPH = Extractable Petroleum Hydrocarbons
PAH = Polycyclic Aromatic Hydrocarbons

VPH = Volatile Petroleum Hydrocarbons
VOCs = Volatile Organic Compounds
SVOCs = Semil-Volatile Organic Compounds
PCBs = Polychlorinated Biphenyls

** Standard Varies with Compound
BOLD = Parameter detected above laboratroy detection limit

Exceeds Method 1 Soil Standards S1/GW2 or S1/
Standards obtained from 310 CMR 40.0000, revised June 26, 2009.

Table 2b
Weston & Sampson
Summary of Soil Analytical Results
478-480 Union Street
New Bedford, MA

Sample ID	WS-2 (15-19')	WS-6 (8-10')	WS-8 (9')	WS-9 (6-10')	WS-10 (10-15')	WS-11 (0.5-2')	WS-12 (13.5-15')	WS-12 (13.5-15') DUP-1	WS-13 (13.5-15')	WS-14 (13.5-15')	WS-15 (13.5-15')	WS-16 (0-5')	WS-16 (15-19')	WS-16 (0-5') DUP-2	WS-17 (0-5')	WS-17 (15-19')	WS-18 (0-5')	WS-18 (15-19')	WS-19 (0-5')	WS-19 (15-19')	WS-20 (13-15')	WS-21 (13-15')	WS-22 (13-15')	WS-23 (13-15')	WS-23 (13-15') DUP 3	WS-24 (13-15')	Method 3 UCLs	Method 1 Soil Standards			
Date Sampled	4/21/2011	4/21/2011	4/22/11	4/22/11	4/22/11	4/22/11	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12		S1/GW2	S1/GW3	S3/GW2	S3/GW3
Parameters (mg/kg)																											mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EPH																															
C9-C18 Aliphatics	--	**4,300**	<34	<34	<32	<31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**32,000**	**55,000**	**16,000**	**10,000**	**20,000**	**19,000**	20,000	1,000	1,000	5,000	5,000
C19-C36 Aliphatics	--	**700**	<34	<34	<32	<31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**3,900**	**8,200**	**2,000**	**1,400**	**3,400**	**3,000**	20,000	3,000	3,000	5,000	5,000
C11-C22 Aromatics	--	**3,900**	<34	<34	<32	**33**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**11,000**	**14,000**	**4,400**	**4,000**	**11,000**	**8,900**	10,000	1,000	1,000	5,000	5,000
								--						--																	
PAH's								--						--																	
Acenapthene	--	**9.4**	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**27**	**40**	**10**	**8.9**	**22**	**20**	10,000	1,000	1,000	5,000	5,000
Acenapthylene	--	<3.0	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**65**	**110**	**18**	**27**	**59**	**55**	10,000	600	10	600	10
Anthracene	--	<3.0	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**3.3**	**5.5**	**1.9**	**1.5**	**9.4**	**8.4**	10,000	1,000	1,000	5,000	5,000
Benzo(a)anthracene	--	<3.0	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5	<1.6	<1.3	<1.1	<1.9	<2.4	3,000	7	7	300	300
Benzo(a)pyrene	--	<3.0	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5	<1.6	<1.3	<1.1	<1.9	<2.4	300	2	2	30	30
Benzo(b)fluoranthene	--	<3.0	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5	<1.6	<1.3	<1.1	<1.9	<2.4	3,000	7	7	300	300
Benzo(g,h,i)perylene	--	<3.0	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5	<1.6	<1.3	<1.1	<1.9	<2.4	10,000	1,000	1,000	5,000	5,000
Benzo(k)fluoranthene	--	<3.0	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5	<1.6	<1.3	<1.1	<1.9	<2.4	10,000	70	70	3,000	3,000
Chrysene	--	<3.0	<0.57	<0.57	<0.53	**0.57**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5	<1.6	<1.3	<1.1	<1.9	<2.4	10,000	70	70	3,000	3,000
Dibenz(a,h)antracene	--	<3.0	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5	<1.6	<1.3	<1.1	<1.9	<2.4	300	0.7	0.7	30	30
Fluoranthene	--	<3.0	<0.57	<0.57	<0.53	**0.81**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2.9**	**4.1**	<1.3	<1.1	**4.0**	**3.1**	10,000	1,000	1,000	5,000	5,000
Fluorene	--	**8.6**	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**66**	**110**	**25**	**27**	**62**	**58**	10,000	1,000	1,000	5,000	5,000
Indeno(1,2,3-cd)pyrene	--	<3.0	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5	<1.6	<1.3	<1.1	<1.9	<2.4	3,000	7	7	300	300
2-Methylnaphthalene	--	**69**	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**170**	**470**	**12**	**68**	**150**	**230**	5,000	80	300	80	500
Naphthalene	--	**9.6**	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**47**	**120**	**14**	**21**	**51**	**64**	10,000	40	500	40	3,000
Phenanthrene	--	**10**	<0.57	<0.57	<0.53	<0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**45**	**73**	**23**	**17**	**42**	**40**	10,000	500	500	3,000	3,000
Pyrene	--	<3.0	<0.57	<0.57	<0.53	**0.98**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**3.4**	**5.6**	**1.6**	**2.2**	**7.7**	**7**	10,000	1,000	1,000	5,000	5,000
VPH																															
C5-C8 Aliphatics	**240**	**61**	<1.0	<1.1	<1.3	<1.1	**370**	**480**	**63**	<5	**4,400**	--	**3,000**	--	--	**170**	--	<6.7	--	<5.6	**46**	**100**	**51**	**120**	--	**31**	5,000	100	100	500	500
C9-C12 Aliphatics	**230**	**340**	<1.0	<1.1	**1.6**	<1.1	**360**	**530**	<6.2	**66**	**2,800**	--	**2,000**	--	--	**120**	--	<6.7	--	<5.6	**240**	**820**	**87**	**980**	--	**320**	20,000	1,000	1,000	5,000	5,000
C9-C10 Aromatics	**220**	**510**	<1.0	<1.1	<1.3	<1.1	**220**	**240**	<6.2	**62**	**1,400**	--	**1,100**	--	--	**74**	--	<6.7	--	<5.6	**180**	**590**	**90**	**670**	--	**220**	5,000	100	100	500	500
Targeted VOCs																															
Benzene	**0.54**	<0.66	--	<0.06	--	--	<0.70	<0.34	<0.31	<0.25	<2.6	--	<2.3	--	--	<0.37	--	<0.33	--	<0.28	<0.29	<0.66	<0.34	<0.72	--	<0.25	9,000	30	30	700	900
Ethlybenzene	**9.5**	**3.4**	--	<0.11	--	--	<0.70	<0.34	<0.31	<0.25	<2.6	--	<2.3	--	--	<0.37	--	<0.33	--	<0.28	<0.29	<0.66	<0.34	<0.72	--	<0.25	10,000	500	500	1,000	3,000
Methyl tert-butyl ether	ND	ND	--	ND	--	--	<0.14	<0.07	<0.06	<0.05	<0.52	--	<0.46	--	--	<0.08	--	<0.07	--	<0.06	<0.06	<0.13	<0.07	<0.72	--	<0.25	5,000	100	100	100	500
Naphthalene	<1.3	**32**	--	<0.28	--	--	<0.70	<0.34	<0.31	<0.25	**9.6**	--	<2.3	--	--	<0.37	--	<0.33	--	<0.28	**2.9**	**16**	**0.75**	**23**	--	**6**	10,000	40	500	40	3,000
Toluene	**1.8**	<0.66	--	<0.11	--	--	<0.70	<0.34	<0.31	<0.25	<2.6	--	<2.3	--	--	<0.37	--	<0.33	--	<0.28	<0.29	<0.66	<0.34	<0.72	--	<0.25	10,000	500	500	2,000	3,000
Total Xylenes	**4.1**	**5.4**	--	<0.33	--	--	<1.4	<0.68	<0.62	<0.50	<5.2	--	<4.6	--	--	<0.74	--	<0.66	--	<0.56	<0.58	<1.32	<0.68	<1.4	--	<0.50	10,000	300	500	300	3,000
VOCs 8260B	--	--	ND	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**	**	**	**	**
Trace Metals																															
Barium	--	--	**10**	--	**15**	**50**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10,000	1,000	1,000	5,000	5,000
Chromium	--	--	**9.4**	--	**14**	**11**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,000	30	30	200	200
Lead	--	--	--	--	--	--	--	--	--	--	--	**48**	--	**20**	**150**	--	**70**	--	**300**	--	--	--	--	--	--	--	3,000	300	300	300	300
PCBs	--	--	<0.092	--	<0.089	<0.087	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100	2	2	3	3

Notes:
"--" = Not Analyzed
NS = No Standard
ND= Not Detected. Detection Limit Varies
EPH = Extractable Petroleum Hydrocarbons
PAH = Polycyclic Aromatic Hydrocarbons

VPH = Volatile Petroleum Hydrocarbons
VOCs = Volatile Organic Compounds
SVOCs = Semil-Volatile Organic Compounds
PCBs = Polychlorinated Biphenyls

** Standard Varies with Compound
BOLD = Parameter detected above laboratroy detection limit

BOLD = Exceeds MCP Soil Standards

Standards obtained from 310 CMR 40.0000, revised June 26, 2009.

Table 3
Weston & Sampson
Summary of Groundwater Analytical Results
478-480 Union Street
New Bedford, MA

Sample ID	MW-1	MWS-1	MWS-2	MW-2	MWS-3	MWS-4	MWS-5	MWS-6	MWS-7	MWS-8	WS-12	WS-23	WS-23 DUP-1	Method 1 Groundwater Standards	
Date Sampled	4/29/2011	4/29/2011	4/29/2011	4/29/2011	4/28/2011	4/28/2011	4/28/2011	4/29/2011	4/28/2011	4/28/2011	5/25/2012	5/25/2012	5/25/2012		
														GW-2	GW-3
Parameters (Units)															
EPH (ug/l)															
C9-C18 Aliphatics	<100	--	--	--	--	--	<200	**320**	<200	<120	--	**260**	**250**	5,000	50,000
C19-C36 Aliphatics	**130**	--	--	--	--	--	<200	**160**	<200	<120	--	<100	<100	NS	50,000
C11-C22 Aromatics	**190**	--	--	--	--	--	<200	**1,100**	<200	<120	--	**730**	**770**	50,000	5,000
PAHs (ug/l)															
Acenaphthene	<0.5	--	--	--	--	--	<0.5	**3.4**	<0.5	<0.5	--	**11**	**13**	NS	6,000
Acenapthylene	<0.5	--	--	--	--	--	<0.5	**0.8**	<0.5	<0.5	--	<2	<2	10,000	40
Fluorene	<0.5	--	--	--	--	--	<0.5	**6.4**	<0.5	<0.5	--	**8.7**	**9.2**	NS	40
2-Methylnaphthalene	<0.5	--	--	--	--	--	<0.5	**160**	<0.5	<0.5	--	**130**	**140**	2,000	20,000
Naphthalene	**1.7**	--	--	--	--	--	<0.5	**100**	<0.5	<0.5	--	**120**	**130**	1,000	20,000
Phenanthrene	<0.5	--	--	--	--	--	<0.5	**5.4**	<0.5	<0.5	--	**3.7**	**4.0**	NS	10,000
VPH (ug/l)															
C5-C8 Aliphatics	<20	**1,400**	**910**	<20	<20	<20	<20	<40	<20	<20	<100	<100	<100	3,000	50,000
C9-C12 Aliphatics	<20	**440**	**320**	<20	<20	<20	<20	**510**	<20	<20	<100	**410**	**460**	5,000	50,000
C9-C10 Aromatics	<20	**930**	**440**	<20	<20	<20	<20	**1,100**	<20	<20	<100	**780**	**840**	7,000	50,000
Targeted VOCs (ug/l)															
Ethlybenzene	<5	**7**	**8**	<5	<5	<5	--	**27**	--	--	<5	**12**	**12**	20,000	5,000
Naphthalene	<5	<5	<5	<5	<5	<5	--	**210**	--	--	<5	**190**	**200**	1,000	20,000
Xylenes	**5**	<10	**5**	<10	<10	<10	--	**46**	--	--	<10	**33**	**34**	9,000	5,000
VOCs 8260B (ug/l)															
Acetone	--	--	--	--	--	<10	<10	--	<10	<10	--	--	--	50,000	50,000
Benzene	--	--	--	--	--	<0.50	<0.50	--	<0.50	<0.50	--	--	--	2,000	10,000
Naphthalene	--	--	--	--	--	<0.50	<0.50	--	<0.50	<0.50	--	--	--	1,000	20,000
Toluene	--	--	--	--	--	<0.50	<0.50	--	<0.50	<0.50	--	--	--	50,000	40,000
PCBs (ug/l)	--	--	<0.2	--	--	<0.2	<0.2	--	<0.2	<0.2	--	--	--	5	10
Trace Metals (mg/l)															
Barium	--	--	--	--	--	--	**0.19**	--	<0.05	**0.07**	--	--	--	NS	50
Mercury	--	--	--	--	--	--	<0.0002	--	<0.0002	**0.0002**	--	--	--	NS	0.02
SVOCs 8270 (ug/l)															
Benzo(a)anthracene	--	--	--	--	--	--	--	--	--	--	--	<0.025	<0.025	NS	1,000
Benzo(b)fluoranthene	--	--	--	--	--	--	--	--	--	--	--	<0.025	<0.025	NS	400
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	--	--	--	--	<0.025	<0.025	NS	20
Benzo(k)fluoranthene	--	--	--	--	--	--	--	--	--	--	--	<0.025	<0.025	NS	100
Chrysene	--	--	--	--	--	--	--	--	--	--	--	<0.025	<0.025	NS	70
Dibenzo(a,h)anthracene	--	--	--	--	--	--	--	--	--	--	--	<0.025	<0.025	NS	40
Indeno(1,2,3-cd)pyrene	--	--	--	--	--	--	--	--	--	--	--	<0.025	<0.025	NS	100

Notes:
Only compounds detected are listed
-- = Not Analyzed
NS = No Standard Established
ug/l = micrograms per liter
mg/l = milligram per liter
EPH = Extractable Petroleum Hydrocarbons

PAH = Polycyclic Aromatic Hydrocarbons
VPH = Volatile Petroelum Hydrocarbons
VOCs = Volatile Organic Compounds
PCBs = Polychlorinated Biphenyls
SVOCs = Semi-Volatile Organic Compounds
BOLD = Parameter detected above laboratory detection limit
BOLD Exceeds RCGW-2 or Method 1 GW-2/3
MCP Method 1 Standards are from the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000, revised June 26, 2009

APPENDIX A

SOIL BORING / MONITORING WELL CONSTRUCTION LOGS

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-12 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co.	New England Geotech	BORING LOCATION	See attached plan
FOREMAN	Hayes	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Joseph Spencer	DATE START 5/11/12	DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig

CASING:

CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME
		11		

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/18	0-5		0	0-3' Brown med to coarse SAND with some GRAVEL		
							3-4' med SAND with black ASH		
							4-5' Brown med to coarse SAND with some GRAVEL		
5			60/30	5-10		0	5-8' Brown med to coarse SAND		
							8-10'' Tan fine to med SAND with some 'GRAVEL		
10			60/60	10-15		1.4	10-11' Brown med to coarse SAND		
						5.6	11-13.5' Tan med SAND (moist)		
						2475	13.5-15' Grey fine to med SAND (saturated)		
15			60/60	15-20		1044	15-16' Grey fine to med SAND (saturated)		
						101.7	16-18' Grey fine to med SAND (saturated)		
						23.3	18-19' Tan fine SILTY SAND (saturated)		
							19-20' Brown fine SILTY SAND (moist)		
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:

Monitoring Well WS-12 installed here. TD = 16.15; DTW = 11.0

VPH sample taken @ 13.5-15' DUP-1 taken here

NOTES:

1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-12

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-13 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co.	New England Geotech	BORING LOCATION	See attached plan
FOREMAN	Hayes	GROUND SURFACE ELEV.	DATUM
WSE GEOLOGIST:	Joseph Spencer	DATE START 5/11/12	DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig

CASING:

CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/36	0-5		0.2	0-1' Tan med to coarse SAND		
						0.8	1-4' Tan med to coarse SILTY SAND with some GRAVEL		
						0.2	4-5' Black fine organic SILTY SAND		
5			60/48	5-10		0.4	5-10' med to coarse SAND with weathered concrete		FILL
10			60/54	10-15		0.7	10-11' Grey med to coarse SAND with GRAVEL		
						0.8	11-13.5' Coarse red/brown SAND		
						19.5	13.5-15' Grey fine to med SAND		(Petroleum Odor)
15			60/54	15-20			15-17' Tan medto coarse SAND		
							17-18' Grey fine to med SILTY SAND		
							18-20' Tan fine to med SILTY SAND		
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:

VPH sample taken @ 13.5-15'

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-13

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-14 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. New England Geotech
FOREMAN Hayes
WSE GEOLOGIST: Joseph Spencer

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 5/11/12 DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig
CASING:
CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/30	0-5		0.3	0-3' Tan med to coarse SAND with some GRAVEL		
						0.2	3-4' med SAND with black ASH		
						0.1	4-5' Tan med to coarse SILTY SAND with some GRAVEL		
5			60/36	5-10		1.1	5-7' Tan med to coarse SILTY SAND with some GRAVEL		
						335.1	7-10' med SAND with weathered concrete		FILL
10			60/54	10-15		6.5	10-12' Grey/tan med SAND		
						6	12-14' Red/brown SILTY SAND		
						173.8	14-15' Grey coarse SAND with GRAVEL		
15			60/54	15-20		160	15-19' Grey fine to med SILTY SAND		
						19.1	19-20' Grey fine to med SAND (saturated)		
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:

VPH sample taken @ 13.5-15'

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-14

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-15 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. New England Geotech
FOREMAN Hayes
WSE GEOLOGIST: Joseph Spencer

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 5/11/12 DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig
CASING:
CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/30	0-5		0	0-2' Tan med to coarse SAND		
						0.9	2-5' Tan med SAND with GRAVEL		
5			60/30	5-10		0.1	5-10' Tan med to coarse SAND		
10			60/60	10-15		0.8	10-12.5' Tan med to coarse SAND		
						847.1	12.5-13.5' Tan/Grey med to coarse SAND with GRAVEL		
						1566	13.5-15' Grey fine SILTY SAND		
15			60/60	15-20		1175	15-19' Grey fine to med SILTY SAND		
						37.1	19-20' Tan fine SILTY SAND		
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:

VPH sample taken @ 13.5-15'

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-15

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-16 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. New England Geotech
FOREMAN Hayes
WSE GEOLOGIST: Joseph Spencer

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 5/11/12 DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig
CASING:
CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/30	0-5		3.0	0-5' Brown med SAND and SOIL with some BRICK		FILL
5			60/54	5-10		0.3	5-10' Tan med to coarse SAND with little GRAVEL		
10			60/60	10-15		1355	10-13' Grey fine to med SILTY SAND		
						1208	13-15' Grey fine to med SILTY SAND with fractured ROCK		
15			60/30	15-20		935.2	15-17' Grey coarse SAND		
						981.3	17-20' Grey med to coarse SILTY SAND		
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:

VPH sample taken @ 15-19'
Pb sample taken @ 0-5' DUP-2 taken here

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-16

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-17 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. New England Geotech
FOREMAN Hayes
WSE GEOLOGIST: Joseph Spencer

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 5/11/12 DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig
CASING:
CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/36	0-5		0.5	0-2' Fine to coarse SANDY SOIL with pockets little ASH		FILL
						0	2-5' Brown med to coarse SAND with some GRAVEL		FILL
5			60/42	5-10		0	5-10' Tan fine to med SAND with some some GRAVEL and const debris		FILL
10			60/40	10-15		1.6	10-13' Tan fine to med SAND with some some GRAVEL and const debris		FILL
						1652	13-15' Grey and black fine to med SAND		
15			60/12	15-20		971	15-19' Grey med to coarse SAND (saturated)		
						52.6	19-20' Tan med SILTY SAND		
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:

VPH sample taken @ 15-19'
Pb sample taken @ 0-5'

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-17

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-18 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. New England Geotech
FOREMAN Hayes
WSE GEOLOGIST: Joseph Spencer

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 5/11/12 DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig
CASING:
CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/30	0-5		0.1	0-5' med to coarse SAND and GRAVEL with some CONCRETE		FILL
5			60/54	5-10		0.1	5-6' med to coarse SAND and GRAVEL		FILL
						0.1	6-10' Tan med SAND with little GRAVEL		
10			60/48	10-15		0	10-13' Tan med SAND with little GRAVEL		
						18.7	13-15' Tan fine to med SILTY SAND		
15			60/48	15-20			15-17' Tan/brown fine to med SILTY SAND		
						28.7	17-18' Grey med to coarse SAND		
						27.2	18-20' Tan/brown fine to med SILTY SAND		
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:

VPH sample taken @ 15-19'
Pb sample taken @ 0-5'

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-18

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-19 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. New England Geotech
FOREMAN Hayes
WSE GEOLOGIST: Joseph Spencer

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 5/11/12 DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig
CASING:
CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/30	0-5		0.1	0-5' Brown med SAND with SOIL and ASH and little GRAVEL		FILL
5			60/36	5-10		5.0	5-8' Tan med SAND with some weathered CONCRETE		FILL
							8-10' Tan fine to med SILTY SAND		
10			60/48	10-15		47.6	10-15' Tan med SILTY SAND		
15			60/18	15-20		101.7	15-19' Tan med to coarse SAND (saturated)		
						130.0	19-20' med to coarse SILTY SAND and GRAVEL		
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:

VPH sample taken @ 15-19'
Pb sample taken @ 0-5'

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-19

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-20 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. New England Geotech
FOREMAN Hayes
WSE GEOLOGIST: Joseph Spencer

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 5/11/12 DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig
CASING:
CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/24	0-5		0.0	0-5' Med to coarse SAND and SOIL with little GRAVEL		FILL
5			60/48	5-10		0.0	5-10' Tan fine to med SAND		
10			60/48	10-15		0.5	10-12' Tan med SAND		
						12.8	12-14' Grey med SAND		
						284	14-15' Grey med to coarse SAND		
15			60/48	15-20		121.8	15-19' Grey med to coarse SAND		
						9.6	19-20' Tan fine to med SILTY SAND		
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:

VPH sample taken @ 13-15'
EPH sample taken @ 13-15'

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-20

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-21 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. New England Geotech
FOREMAN Hayes
WSE GEOLOGIST: Joseph Spencer

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 5/11/12 DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig
CASING:
CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/30	0-5		0.0	0-5' Brown med to coarse SAND and SOIL with some GRAVEL and BRICK		FILL
5			60/48	5-10		3.2	5-8' Tan med to coarse SAND with some GRAVEL		
						268.4	8-10" Grey fine to med SAND		
10			60/48	10-15		211.5	10-12' Grey fine to med SAND with GRAVEL		
						385.9	12-15' Grey med SAND and GRAVEL		
15			60/48	15-20		70.8	15-18' Grey med to coarse SAND		
						5.4	18-20' Tan/red fine to med SILTY SAND		
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:

VPH sample taken @ 13-15'
EPH sample taken @ 13-15'

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-21

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-22 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. New England Geotech
FOREMAN Hayes
WSE GEOLOGIST: Joseph Spencer

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 5/11/12 DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig
CASING:
CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/30	0-5		0.1	0-5' Brown med SANDY SOIL (organic)		
5			60/48	5-10		19.8	5-7' Brown med SANDY SOIL (organic)		
						1.7	7-10' Tan med to coarse SILTY SAND with some GRAVEL		
10			60/42	10-15		1.9	10-11' Tan med to coarse SILTY SAND with some GRAVEL		
						141.2	11-15' Grey med to coarse SAND		
15			60/42	15-20		30.3	15-20' TAN fine to med SILTY SAND		
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:

VPH sample taken @ 13-15'
EPH sample taken @ 13-15'

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-22

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-23 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. New England Geotech
FOREMAN Hayes
WSE GEOLOGIST: Joseph Spencer

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 5/11/12 DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig
CASING:
CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/42	0-5		0.0	0-1' Top soil and pea stone		
						0.6	1-5' Tan fine SILTY SAND with some SOIL		
5			60/54	5-10		0.0	5-8' Tan fine SAND and SILT		
						0	8-10' Coarse SAND with some GRAVEL		
10			60/54	10-15		1	10-13' Coarse SAND and GRAVEL		
						206.9	13-15' Grey fine to med SILTY SAND		
15			60/48	15-20		123.5	15-17' Grey coarse SAND with GRAVEL		
						41.6	17-19' Grey fine SILTY SAND		
						8.5	10-13' Tan fine SILTY SAND		
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:
Monitoring Well WS-23 installed here.
VPH sample taken @ 13-15'
EPH sample taken @ 13-15' DUP-3 taken here

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

BORING No. WS-23

Weston & Sampson	PROJECT 478-480 Union Street New Bedford, MA	REPORT OF BORING No. WS-24 SHEET 1 OF 1 Project No. 2100451 CHKD BY

BORING Co. New England Geotech
FOREMAN Hayes
WSE GEOLOGIST: Joseph Spencer

BORING LOCATION See attached plan
GROUND SURFACE ELEV. DATUM
DATE START 5/11/12 DATE END 5/11/12

SAMPLER: Geoprobe Truck Rig
CASING:
CASING SIZE: N/A Method Direct push

GROUNDWATER READINGS

DATE	TIME	WATER AT	CASING AT	STABILIZATION TIME

DEPTH (feet)	CASING (lb/ft)	SAMPLE No.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	PID (ppm)	SAMPLE DESCRIPTION Burmister Classification	NOTES	STRATUM DESCRIPTION
			60/42	0-5		0.0	0-1' Pea stone		
						0	1-5' Tan/brown fine to med SAND and SOIL		FILL
5			60/60	5-10		0.1	5-10' Med to coarse SAND with some GRAVEL and little CLAY		FILL
10			60/54	10-15		265.3	10-12' Med to coarse SAND with some GRAVEL and little CLAY		FILL
						281.4	12-13' Grey fine SILTY SAND		
						300.4	13-15' Grey med SILTY SAND		
15			0/0	15-20					
20									
25									
30									
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY
0-4	V. LOOSE	0-2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
> 50	V. DENSE	15-30	V. STIFF
		> 30	HARD

REMARKS:

VPH sample taken @ 13-15'
EPH sample taken @ 13-15'

Driller did not want to drill past 15'. He said it felt as though he would lose the barrel (which happened at WS-16).

NOTES:
1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THIS BORING LOG. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS ARE MADE.

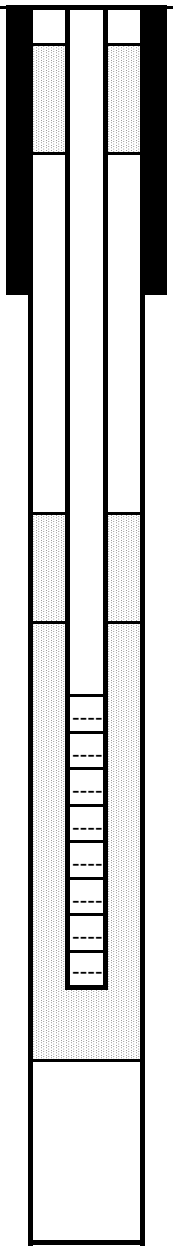
BORING No. WS-24

GROUNDWATER MONITORING WELL INSTALLATION REPORT

PROJECT NAME/NO.	478 Union Street/2120144			**MONITORING WELL NO.**	
LOCATION	Bedford, MA			**WS-12**	
CLIENT	City of New Bedford			ELEVATION	
CONTRACTOR	N.E. Geotech	DRILLER	Hayes	TOP OF PVC	
OBSERVED BY	JRS	DATE	5/11/12	DEPTH TO GROUNDWATER FROM	
CHECKED BY		DATE		TOP OF PVC	11 feet

GROUND ELEVATION <--------- FLUSH-MOUNTED ROADBOX (GROUND SURFACE)

GENERAL SOIL CONDITIONS (NOT TO SCALE)



	THICKNESS OF SURFACE SEAL(S)	6 inch
<---------	TYPE OF SURFACE SEAL(S)	concrete
	TYPE OF SURFACE CASING	cast aluminum
<---------	ID OF SURFACE CASING	4 inch
<---------	DEPTH BOTTOM OF CASING	10 inch
	ID OF RISER PIPE	2 inch
<---------	TYPE OF RISER PIPE	Schedule 40 PVC
<---------	TYPE OF BACKFILL AROUND RISER PIPE	Native
	DEPTH TOP OF SEAL	4.5 ft
<---------	TYPE OF SEAL	Bentonite
	DEPTH BOTTOM OF SEAL/TOP OF SAND COLUMN	5.5 ft
<---------	DEPTH TOP OF SCREEN	6.15 ft
	TYPE OF SCREEN	Schedule 40 PVC
<---------	SIZE OPENINGS	0.010 inch
	ID OF SCREEN	2 inch
<---------	TYPE OF BACKFILL AROUND SCREEN	#1 Sand
<---------	DEPTH BOTTOM OF SCREEN	16.15 ft
<---------	DEPTH BOTTOM OF SAND COLUMN	17 ft
<---------	TYPE OF BACKFILL BELOW SCREEN	#1 Sand/Native
<---------	DIAMETER OF BOREHOLE	3.125
<---------	DEPTH BOTTOM OF BOREHOLE	20 ft

NOTES:

MONITORING WELL NO.
WS-12

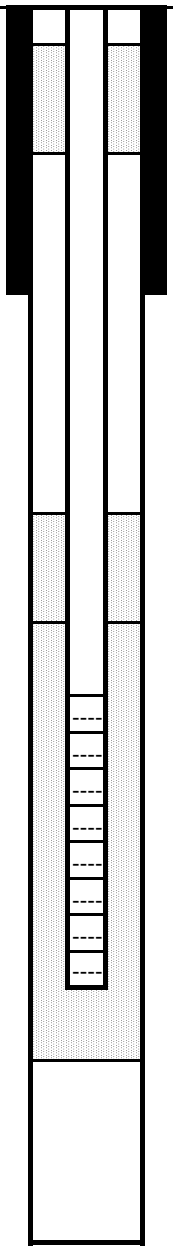
WESTON & SAMPSON ENGINEERS, INC.

GROUNDWATER MONITORING WELL INSTALLATION REPORT

PROJECT NAME/NO.	478 Union Street/2120144			**MONITORING WELL NO.**	
LOCATION	Bedford, MA			**WS-23**	
CLIENT	City of New Bedford			ELEVATION	
CONTRACTOR	N.E. Geotech	DRILLER	Hayes	TOP OF PVC	
OBSERVED BY	JRS	DATE	5/11/12	DEPTH TO GROUNDWATER FROM	
CHECKED BY		DATE		TOP OF PVC	12 ft

GROUND ELEVATION <--------- FLUSH-MOUNTED ROADBOX (GROUND SURFACE)

GENERAL SOIL CONDITIONS (NOT TO SCALE)



	THICKNESS OF SURFACE SEAL(S)	6 inch
<---------	TYPE OF SURFACE SEAL(S)	concrete
	TYPE OF SURFACE CASING	cast aluminum
<---------	ID OF SURFACE CASING	4 inch
<---------	DEPTH BOTTOM OF CASING	10 inch
	ID OF RISER PIPE	2 inch
<---------	TYPE OF RISER PIPE	Schedule 40 PVC
<---------	TYPE OF BACKFILL AROUND RISER PIPE	#1 Sand
	DEPTH TOP OF SEAL	6 ft
<---------	TYPE OF SEAL	Bentonite chips
	DEPTH BOTTOM OF SEAL/TOP OF SAND COLUMN	7 ft
<---------	DEPTH TOP OF SCREEN	8 ft
	TYPE OF SCREEN	Schedule 40 PVC
<---------	SIZE OPENINGS	0.010 inch
	ID OF SCREEN	2 inch
<---------	TYPE OF BACKFILL AROUND SCREEN	#1 Sand
<---------	DEPTH BOTTOM OF SCREEN	18 ft
<---------	DEPTH BOTTOM OF SAND COLUMN	19 ft
<---------	TYPE OF BACKFILL BELOW SCREEN	#1 Sand/Native
<---------	DIAMETER OF BOREHOLE	3.125
<---------	DEPTH BOTTOM OF BOREHOLE	20 ft

NOTES:

MONITORING WELL NO.
WS-23

WESTON & SAMPSON ENGINEERS, INC.

APPENDIX B

LABORATORY ANALAYTICAL REPORTS

PREMIER LABORATORY, INC.
A BWMi NETWORK LABORATORY

61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
Phone: 860-774-6814
Toll-Free: 800-334-0103

ANALYTICAL DATA REPORT

prepared for:

Weston and Sampson
5 Centennial Drive
Peabody, MA 01960
Jim Currier

Report Number: E205960
Revision 7
Project: 478 - 480 Union Street

Received Date: 05/15/2012
Report Date: 06/13/2012
Revision Date: 08/10/2012

Premier Laboratory, Inc
Authorized Signature

Certified and Compliant with:
CT (PH-0465), EPA (CT00008), MA (M-CT008), ME (CT0050), NH (2020), NJ (CT007), NY (11549), PA (68-04413), RI (LAO00300), VT (VT11549)

101-000000337972

PREMIER LABORATORY, INC.
A BWMi NETWORK LABORATORY
61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
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MADEP Analytical Protocol Certification Form

Laboratory Name: Premier Laboratory, Inc — Project #: E205960

Project Location: New Bedford, MA — RTN :

This Form provides certifications for the following data set:[list Laboratory Sample ID Number(s)]

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26

Matrices: ☑ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH CAM IV A ☑	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP EPH CAM IV B ☑	8151A Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII 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[1]
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all indentified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes	☐ No[1]
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☑ Yes	☐ No[1]
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
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[1]

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[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40 (2)(k) and WSC-07-350*

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1]*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: R. Warila — Position: Laboratory Director

Printed Name: Ronald Warila — Date: 8/3/2012

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Report No: E205960
Client: Weston and Sampson
Project: 478 - 480 Union Street

CASE NARRATIVE / METHOD CONFORMANCE SUMMARY

Premier Laboratory, Inc received 22 samples from Weston and Sampson on 05/15/2012. The samples were analyzed for the following list of analyses:

Subcontract - EPH
MADEP EPH
Volatile Petroleum Hydrocarbon (VPH)
MADEP VPH
Trace Metals by 6010B
6010B[3000]

The requested compound list is not inclusive of all of the MCP Target Analytes for Method 6010B.

Non-Conformances:

Work Order:

None

Sample:

None

Analysis:

Sample 12B, WS-21 (13-15'), Volatile Petroleum Hydrocarbon (VPH): One surrogate spike was outside quality control limits for the sample due to matrix interference.

Sample 12B, WS-21 (13-15'), Volatile Petroleum Hydrocarbon (VPH): The CAM reporting limits were not met due to sample dilution.

Sample 14B, WS-23 (13-15'), Volatile Petroleum Hydrocarbon (VPH): One surrogate spike was outside quality control limits for the sample due to matrix interference.

Sample 14B, WS-23 (13-15'), Volatile Petroleum Hydrocarbon (VPH): The CAM reporting limits were not met due to sample dilution.

Sample 15B, WS-24 (13-15'), Volatile Petroleum Hydrocarbon (VPH): One surrogate spike was outside quality control limits for the sample, due to matrix interference. The sample was re-analyzed and the surrogate was still outside control limits.

Sample 1B, WS-12 (13.5-15'), Volatile Petroleum Hydrocarbon (VPH): The CAM reporting limits were not met due to sample dilution.

Sample 25, WS-18 (0-5') [Matrix Spike], Trace Metals by 6010B: Lead recovery for the matrix spike was above the established control limits.

Sample 26, WS-18 (0-5') [Matrix Spike Duplicate], Trace Metals by 6010B: Lead recovery for the matrix spike duplicate was above the established control limits.

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Report No: E205960
Client: Weston and Sampson
Project: 478 - 480 Union Street

CASE NARRATIVE / METHOD CONFORMANCE SUMMARY

Non-Conformances:

Analysis:

Sample 4B, WS-15 (13.5-15'), Volatile Petroleum Hydrocarbon (VPH): The CAM reporting limits were not met due to sample dilution.

Sample 9B, WS-16 (15-19'), Volatile Petroleum Hydrocarbon (VPH): The CAM reporting limits were not met due to sample dilution.

Premier Laboratory, Inc
Analytical Data Report

Report No: E205960
Date Received: 05/15/2012 16:38

Customer: Weston and Sampson
Project: 478 - 480 Union Street

Parameter	Result	DL	Units	Completed	By	Dilution
(16) WS-18 (0-5')						
Date Collected: 05/11/2012 12:00	**Matrix: Solid**					
Trace Metals by 6010B						
Lead	70	0.11	mg/kg	05/29/2012 14:22	NJB	
(17) WS-16 (0-5')						
Date Collected: 05/11/2012 16:30	**Matrix: Solid**					
Trace Metals by 6010B						
Lead	48	0.11	mg/kg	05/29/2012 14:25	NJB	
(18) WS-17 (0-5')						
Date Collected: 05/11/2012 12:30	**Matrix: Solid**					
Trace Metals by 6010B						
Lead	150	0.11	mg/kg	05/29/2012 14:28	NJB	
(19) WS-19 (0-5')						
Date Collected: 05/11/2012 13:00	**Matrix: Solid**					
Trace Metals by 6010B						
Lead	300	0.11	mg/kg	05/29/2012 14:37	NJB	
(20) DUP-2						
Date Collected: 05/11/2012	**Matrix: Solid**					
Trace Metals by 6010B						
Lead	20	0.11	mg/kg	05/29/2012 14:39	NJB	
(24) WS-18 (0-5') [Standard Sample]						
Date Collected: 05/11/2012 12:00	**Matrix: Solid**					
Trace Metals by 6010B						
Lead	87	0.11	mg/kg	08/01/2012 13:13	AJR	
(25) WS-18 (0-5') [Matrix Spike]						
Date Collected: 05/11/2012 12:00	**Matrix: Solid**					
Trace Metals by 6010B						
Lead	140	0.11	mg/kg	08/01/2012 13:19	AJR	
(26) WS-18 (0-5') [Matrix Spike Duplicate]						
Date Collected: 05/11/2012 12:00	**Matrix: Solid**					
Trace Metals by 6010B						
Lead	150	0.11	mg/kg	08/01/2012 13:21	AJR	

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	1	Sample Description:	WS-12 (13.5-15')
Preservative:			
		Dilution (Target):	100
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	20
Date Analyzed:	6/6/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	100	370000	14000	ug/kg
C9-C12 Aliphatics**	100	360000	14000	ug/kg
C9-C10 Aromatics***	100	220000	14000	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	105%	70%-130%
2,5-dibromotoluene	110%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	140	ug/kg
Benzene	ND	700	ug/kg
Toluene	ND	700	ug/kg
Ethylbenzene	ND	700	ug/kg
m,p-Xylenes	ND	700	ug/kg
o-Xylene	ND	700	ug/kg
Naphthalene	ND	700	ug/kg

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	2	Sample Description:	WS-13 (13.5-15')
Preservative:			
		Dilution (Target):	50
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	19
Date Analyzed:	6/5/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	50	63000	6200	ug/kg
C9-C12 Aliphatics**	50	ND	6200	ug/kg
C9-C10 Aromatics***	50	ND	6200	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	95%	70%-130%
2,5-dibromotoluene	96%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	62	ug/kg
Benzene	ND	310	ug/kg
Toluene	ND	310	ug/kg
Ethylbenzene	ND	310	ug/kg
m,p-Xylenes	ND	310	ug/kg
o-Xylene	ND	310	ug/kg
Naphthalene	ND	310	ug/kg

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	3	Sample Description:	WS-14 (13.5-15')
Preservative:			
		Dilution (Target):	50
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	9.7
Date Analyzed:	6/5/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	50	ND	5000	ug/kg
C9-C12 Aliphatics**	50	66000	5000	ug/kg
C9-C10 Aromatics***	50	62000	5000	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	77%	70%-130%
2,5-dibromotoluene	106%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	50	ug/kg
Benzene	ND	250	ug/kg
Toluene	ND	250	ug/kg
Ethylbenzene	ND	250	ug/kg
m,p-Xylenes	ND	250	ug/kg
o-Xylene	ND	250	ug/kg
Naphthalene	ND	250	ug/kg

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	4	Sample Description:	WS-15 (13.5-15')
Preservative:			
		Dilution (Target):	400
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	24
Date Analyzed:	6/6/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	400	4400000	52000	ug/kg
C9-C12 Aliphatics**	400	2800000	52000	ug/kg
C9-C10 Aromatics***	400	1400000	52000	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	88%	70%-130%
2,5-dibromotoluene	105%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	520	ug/kg
Benzene	ND	2600	ug/kg
Toluene	ND	2600	ug/kg
Ethylbenzene	ND	2600	ug/kg
m,p-Xylenes	ND	2600	ug/kg
o-Xylene	ND	2600	ug/kg
Naphthalene	9600	2600	ug/kg

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	5	Sample Description:	DUP-1
Preservative:			
		Dilution (Target):	50
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	18
Date Analyzed:	6/5/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	50	480000	6800	ug/kg
C9-C12 Aliphatics**	50	530000	6800	ug/kg
C9-C10 Aromatics***	50	240000	6800	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	109%	70%-130%
2,5-dibromotoluene	107%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	68	ug/kg
Benzene	ND	340	ug/kg
Toluene	ND	340	ug/kg
Ethylbenzene	ND	340	ug/kg
m,p-Xylenes	ND	340	ug/kg
o-Xylene	ND	340	ug/kg
Naphthalene	ND	340	ug/kg

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	8	Sample Description:	WS-17 (15-19')
Preservative:			
		Dilution (Target):	50
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	26
Date Analyzed:	6/5/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	50	170000	7500	ug/kg
C9-C12 Aliphatics**	50	120000	7500	ug/kg
C9-C10 Aromatics***	50	74000	7500	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	104%	70%-130%
2,5-dibromotoluene	107%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	75	ug/kg
Benzene	ND	370	ug/kg
Toluene	ND	370	ug/kg
Ethylbenzene	ND	370	ug/kg
m,p-Xylenes	ND	370	ug/kg
o-Xylene	ND	370	ug/kg
Naphthalene	ND	370	ug/kg

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	9	Sample Description:	WS-16 (15-19')
Preservative:			
		Dilution (Target):	400
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	14
Date Analyzed:	6/6/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	400	3000000	46000	ug/kg
C9-C12 Aliphatics**	400	2000000	46000	ug/kg
C9-C10 Aromatics***	400	1100000	46000	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	92%	70%-130%
2,5-dibromotoluene	114%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	460	ug/kg
Benzene	ND	2300	ug/kg
Toluene	ND	2300	ug/kg
Ethylbenzene	ND	2300	ug/kg
m,p-Xylenes	ND	2300	ug/kg
o-Xylene	ND	2300	ug/kg
Naphthalene	ND	2300	ug/kg

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	10	Sample Description:	WS-19 (15-19')
Preservative:			
		Dilution (Target):	50
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	10
Date Analyzed:	6/5/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	50	ND	5600	ug/kg
C9-C12 Aliphatics**	50	ND	5600	ug/kg
C9-C10 Aromatics***	50	ND	5600	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	87%	70%-130%
2,5-dibromotoluene	98%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	56	ug/kg
Benzene	ND	280	ug/kg
Toluene	ND	280	ug/kg
Ethylbenzene	ND	280	ug/kg
m,p-Xylenes	ND	280	ug/kg
o-Xylene	ND	280	ug/kg
Naphthalene	ND	280	ug/kg

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	11	Sample Description:	WS-20 (13-15')
Preservative:			
		Dilution (Target):	50
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	8.0
Date Analyzed:	6/5/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	50	46000	5800	ug/kg
C9-C12 Aliphatics**	50	240000	5800	ug/kg
C9-C10 Aromatics***	50	180000	5800	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	76%	70%-130%
2,5-dibromotoluene	78%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	58	ug/kg
Benzene	ND	290	ug/kg
Toluene	ND	290	ug/kg
Ethylbenzene	ND	290	ug/kg
m,p-Xylenes	ND	290	ug/kg
o-Xylene	ND	290	ug/kg
Naphthalene	2900	290	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E205960
Sample No: 11
Sample Description: WS-20 (13-15')

Customer: Weston and Sampson
Project: 478 - 480 Union Street

Date Collected: 05/11/2012 14:30
Date Received: 05/15/2012 16:38
Date Analyzed: 06/07/2012 00:00 By: SUB
Analytical Method: MADEP EPH

Matrix: Solid
Percent Moisture: 8.0
Dilution Factor: 1
Lab Data File:

CAS No.	Parameter	Result	DL	Units
	Subcontract EPH	Attached		ug/L

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	12	Sample Description:	WS-21 (13-15')
Preservative:			
		Dilution (Target):	100
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	12
Date Analyzed:	6/6/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	100	100000	13000	ug/kg
C9-C12 Aliphatics**	100	820000	13000	ug/kg
C9-C10 Aromatics***	100	590000	13000	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	24%	70%-130%
2,5-dibromotoluene	24%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	130	ug/kg
Benzene	ND	660	ug/kg
Toluene	ND	660	ug/kg
Ethylbenzene	ND	660	ug/kg
m,p-Xylenes	ND	660	ug/kg
o-Xylene	ND	660	ug/kg
Naphthalene	16000	660	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E205960
Sample No: 12
Sample Description: WS-21 (13-15')

Customer: Weston and Sampson
Project: 478 - 480 Union Street

Date Collected: 05/11/2012 15:00
Date Received: 05/15/2012 16:38
Date Analyzed: 06/07/2012 00:00 By: SUB
Analytical Method: MADEP EPH

Matrix: Solid
Percent Moisture: 12
Dilution Factor: 1
Lab Data File:

CAS No.	Parameter	Result	DL	Units
	Subcontract EPH	Attached		ug/L

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	13	Sample Description:	WS-22 (13-15')
Preservative:			
		Dilution (Target):	50
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	16
Date Analyzed:	6/6/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	50	51000	6800	ug/kg
C9-C12 Aliphatics**	50	87000	6800	ug/kg
C9-C10 Aromatics***	50	90000	6800	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	75%	70%-130%
2,5-dibromotoluene	102%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	68	ug/kg
Benzene	ND	340	ug/kg
Toluene	ND	340	ug/kg
Ethylbenzene	ND	340	ug/kg
m,p-Xylenes	ND	340	ug/kg
o-Xylene	ND	340	ug/kg
Naphthalene	750	340	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E205960
Sample No: 13
Sample Description: WS-22 (13-15')

Customer: Weston and Sampson
Project: 478 - 480 Union Street

Date Collected: 05/11/2012 16:00
Date Received: 05/15/2012 16:38
Date Analyzed: 06/07/2012 00:00 By: SUB
Analytical Method: MADEP EPH

Matrix: Solid
Percent Moisture: 16
Dilution Factor: 1
Lab Data File:

CAS No.	Parameter	Result	DL	Units
	Subcontract EPH	Attached		ug/L

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	14	Sample Description:	WS-23 (13-15')
Preservative:			
		Dilution (Target):	100
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	18
Date Analyzed:	6/6/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	100	120000	14000	ug/kg
C9-C12 Aliphatics**	100	980000	14000	ug/kg
C9-C10 Aromatics***	100	670000	14000	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	3.9%	70%-130%
2,5-dibromotoluene	8.1%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	140	ug/kg
Benzene	ND	720	ug/kg
Toluene	ND	720	ug/kg
Ethylbenzene	ND	720	ug/kg
m,p-Xylenes	ND	720	ug/kg
o-Xylene	ND	720	ug/kg
Naphthalene	23000	720	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E205960
Sample No: 14
Sample Description: WS-23 (13-15')

Customer: Weston and Sampson
Project: 478 - 480 Union Street

Date Collected: 05/11/2012 15:30
Date Received: 05/15/2012 16:38
Date Analyzed: 06/07/2012 00:00 By: SUB
Analytical Method: MADEP EPH

Matrix: Solid
Percent Moisture: 18
Dilution Factor: 1
Lab Data File:

CAS No.	Parameter	Result	DL	Units
	Subcontract EPH	Attached		ug/L

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	15	Sample Description:	WS-24 (13-15')
Preservative:			
		Dilution (Target):	50
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	8.3
Date Analyzed:	6/5/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	50	31000	5000	ug/kg
C9-C12 Aliphatics**	50	320000	5000	ug/kg
C9-C10 Aromatics***	50	220000	5000	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	26%	70%-130%
2,5-dibromotoluene	18%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	50	ug/kg
Benzene	ND	250	ug/kg
Toluene	ND	250	ug/kg
Ethylbenzene	ND	250	ug/kg
m,p-Xylenes	ND	250	ug/kg
o-Xylene	ND	250	ug/kg
Naphthalene	6000	250	ug/kg

Premier Laboratory, Inc
Analytical Data Report

Report No: E205960
Sample No: 15
Sample Description: WS-24 (13-15')

Customer: Weston and Sampson
Project: 478 - 480 Union Street

Date Collected: 05/11/2012 14:00
Date Received: 05/15/2012 16:38
Date Analyzed: 06/07/2012 00:00 By: SUB
Analytical Method: MADEP EPH

Matrix: Solid
Percent Moisture: 8.3
Dilution Factor: 1
Lab Data File:

CAS No.	Parameter	Result	DL	Units
	Subcontract EPH	Attached		ug/L

Premier Laboratory, Inc
Analytical Data Report

Report No: E205960
Sample No: 21
Sample Description: DUP-3

Customer: Weston and Sampson
Project: 478 - 480 Union Street

Date Collected: 05/11/2012 00:00
Date Received: 05/15/2012 16:38
Date Analyzed: 06/07/2012 00:00 By: SUB
Analytical Method: MADEP EPH

Matrix: Solid
Percent Moisture: 11
Dilution Factor: 1
Lab Data File:

CAS No.	Parameter	Result	DL	Units
	Subcontract EPH	Attached		ug/L

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	22	Sample Description:	Trip Blank
Preservative:			
		Dilution (Target):	50
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Aqueous
Date Extracted:		Percent Moisture:	N/A
Date Analyzed:	6/5/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	50	ND	5000	ug/L
C9-C12 Aliphatics**	50	ND	5000	ug/L
C9-C10 Aromatics***	50	ND	5000	ug/L

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	95%	70%-130%
2,5-dibromotoluene	100%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	50	ug/L
Benzene	ND	250	ug/L
Toluene	ND	250	ug/L
Ethylbenzene	ND	250	ug/L
m,p-Xylenes	ND	250	ug/L
o-Xylene	ND	250	ug/L
Naphthalene	ND	250	ug/L

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205960	Project:	478 - 480 Union Street
Sample No:	23	Sample Description:	WS-18 (15-19')
Preservative:			
		Dilution (Target):	50
Date Collected:	5/11/2012		
Date Received:	5/15/2012	Matrix:	Solid
Date Extracted:		Percent Moisture:	18
Date Analyzed:	6/8/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	50	ND	6700	ug/kg
C9-C12 Aliphatics**	50	ND	6700	ug/kg
C9-C10 Aromatics***	50	ND	6700	ug/kg

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	103%	70%-130%
2,5-dibromotoluene	111%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	67	ug/kg
Benzene	ND	330	ug/kg
Toluene	ND	330	ug/kg
Ethylbenzene	ND	330	ug/kg
m,p-Xylenes	ND	330	ug/kg
o-Xylene	ND	330	ug/kg
Naphthalene	ND	330	ug/kg

FORM 3
Soil 6010B Lab Control Sample

Lab Name: Premier Laboratory, Inc Date Analyzed 5/29/2012

Project No.: E205960 Project: 478 - 480 Union Street

Sample No.: LCS Location: New Bedford, MA

Lab File ID: 100411A.lim Batch No.: 95568

Compound	Spike Added (ppb)	Sample Concentration (ppb)	% Rec #	QC Limits Rec
Aluminum				-
Antimony				-
Arsenic				-
Barium				-
Beryllium				-
Boron				-
Cadmium				-
Calcium				-
Chromium				-
Cobalt				-
Copper				-
Iron				-
Lead				-
Magnesium				-
Manganese				-
Molybdenum				-
Nickel				-
Potassium				-
Selenium				-
Silver				-
Sodium				-
Thallium				-
Tin				-
Titanium				-
Vanadium				-
Zinc				-

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

FORM 3
Soil 6010B Matrix Spike/Matrix Spike Duplicate Recovery

Lab Name: Premier Laboratory, Inc Date Analyzed 8/1/2012 1:19:01PM

Project No.: E205960 Project: 478 - 480 Union Street

Sample No.: E205960-25 Location: New Bedford, MA

Batch No.: 97706

Compound	Spike Added (ppb)	Sample Concentration (ppb)	MS Concentration (ppb)	MS % Rec #	QC Limits Rec
Aluminum					-
Antimony					-
Arsenic					-
Barium					-
Beryllium					-
Boron					-
Cadmium					-
Calcium					-
Chromium					-
Cobalt					-
Copper					-
Iron					-
Lead					-
Magnesium					-
Manganese					-
Molybdenum					-
Nickel					-
Potassium					-
Selenium					-
Silver					-
Sodium					-
Thallium					-
Tin					-
Titanium					-
Vanadium					-
Zinc					-

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 26 outside limits

FORM 3
Soil 6010B Matrix Spike/Matrix Spike Duplicate Recovery

Lab Name: Premier Laboratory, Inc Date Analyzed 8/1/2012 1:21:58PM

Project No.: E205960 Project: 478 - 480 Union Street

Sample No.: E205960-26 Location: New Bedford, MA

Batch No.: 97706

Compound	Spike Added (ppb)	MSD Concentration (ppb)	MSD % Rec	#	% RPD	#	QC Limits RPD	Rec
Aluminum								-
Antimony								-
Arsenic								-
Barium								-
Beryllium								-
Boron								-
Cadmium								-
Calcium								-
Chromium								-
Cobalt								-
Copper								-
Iron								-
Lead								-
Magnesium								-
Manganese								-
Molybdenum								-
Nickel								-
Potassium								-
Selenium								-
Silver								-
Sodium								-
Thallium								-
Tin								-
Titanium								-
Vanadium								-
Zinc								-

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 26 outside limits

Spike Recovery: 0 out of 26 outside limits

FORM 4
6010B Method Blank Summary

Project No.: E205960 Project: 478 - 480 Union Street

Lab File ID: 100411A.lim Lab Sample ID: Blank

Matrix: Soil Date Analyzed: 5/29/2012

Instrument ID: VarICP

Batch No.: 95568 Time Analyzed: 1326

This Method Blank Applies To The Following Samples, MS and MSD:

	Lab Sample No.	Client Sample ID	Lab File ID	Date Analyzed
1	E205960-16	WS-18 (0-5')		5/29/2012
2	E205960-17	WS-16 (0-5')		5/29/2012
3	E205960-18	WS-17 (0-5')		5/29/2012
4	E205960-19	WS-19 (0-5')		5/29/2012
5	E205960-20	DUP-2		5/29/2012
6	0552801A LFM	0552801A LFM	100411A.lim	5/29/2012
7	0552801A LFMD	0552801A LFMD	100411A.lim	5/29/2012
8	LCS	LCS	100411A.lim	5/29/2012

FORM 4
6010B Method Blank Summary

Project No.: E205960 Project: 478 - 480 Union Street

Lab File ID: 100411A.lim Lab Sample ID: Blank

Matrix: Soil Date Analyzed: 8/3/2012

Instrument ID: VarICP

Batch No.: 97706 Time Analyzed: 1215

This Method Blank Applies To The Following Samples, MS and MSD:

	Lab Sample No.	Client Sample ID	Lab File ID	Date Analyzed
1	E205960-24	WS-18 (0-5') [		8/1/2012
2	0596025 LFM	0596025 LFM	100411A.lim	8/3/2012
3	0596026 LFMD	0596026 LFMD	100411A.lim	8/3/2012

FORM 2
Water MADEP VPH Surrogate Recovery

Lab Name: Premier Laboratory, Inc

Project No.: E205960 Project: 478 - 480 Union Street

Batch No.: 95893 Location: New Bedford, MA

	Lab Sample No.	S1 %Rec #	S2 %Rec #	S3 %Rec #	S4 %Rec #	S5 %Rec #	S6 %Rec #	Tot Out
1	VBLK0607	105	104					0
2	VLCS0607	110	112					0

QC Limits

S1 = 2,5-dibromotoluene (70-130)
S2 = 2,5-dibromotoluene #2 #2 (70-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 2
Water MADEP VPH Surrogate Recovery

Lab Name: Premier Laboratory, Inc

Project No.: E205960 Project: 478 - 480 Union Street

Batch No.: 95898 Location: New Bedford, MA

	Lab Sample No.	S7 %Rec #	S8 %Rec #	S9 %Rec #	S10 %Rec #	S11 %Rec #	S12 %Rec #	Tot Out
1	E205960-22	100	95					0
2	VBLK0604	92	83					0
3	VLCS0604	93	94					0
4	VLCSICV	98	99					0

QC Limits

S7 = 2,5-dibromotoluene (70-130)
S8 = 2,5-dibromotoluene #2 #2 (70-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 2
Water MADEP VPH Surrogate Recovery

Lab Name: Premier Laboratory, Inc

Project No.: E205960 Project: 478 - 480 Union Street

Batch No.: 95973 Location: New Bedford, MA

	Lab Sample No.	S13 %Rec #	S14 %Rec #	S15 %Rec #	S16 %Rec #	S17 %Rec #	S18 %Rec #	Tot Out
1	VBLK0606	107	102					0
2	VLCS0606	110	110					0

QC Limits

S13= 2,5-dibromotoluene (70-130)
S14= 2,5-dibromotoluene #2 #2 (70-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 2
Soil MADEP VPH Surrogate Recovery

Lab Name: Premier Laboratory, Inc

Project No.: E205960 Project: 478 - 480 Union Street

Batch No.: 95893 Location: New Bedford, MA

	Lab Sample No.	S1 %Rec #	S2 %Rec #	S3 %Rec #	S4 %Rec #	S5 %Rec #	S6 %Rec #	Tot Out
1	E205960-23B	111	103					0
2	E205960-6B	105	108					0
3	E205960-7B	105	108					0

QC Limits

S1 = 2,5-dibromotoluene (70-130)
S2 = 2,5-dibromotoluene #2 #2 (70-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 2
Soil MADEP VPH Surrogate Recovery

Lab Name: Premier Laboratory, Inc

Project No.: E205960 Project: 478 - 480 Union Street

Batch No.: 95898 Location: New Bedford, MA

	Lab Sample No.	S7 %Rec #	S8 %Rec #	S9 %Rec #	S10 %Rec #	S11 %Rec #	S12 %Rec #	Tot Out
1	E205960-10B	98	87					0
2	E205960-11B	88	78					0
3	E205960-15B	30 *	12 *					2
4	E205960-2B	96	95					0
5	E205960-3B	110	77					0
6	E205960-5B	110	109					0
7	E205960-8B	107	104					0

QC Limits

S7 = 2,5-dibromotoluene (70-130)
S8 = 2,5-dibromotoluene #2 #2 (70-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 2
Soil MADEP VPH Surrogate Recovery

Lab Name: Premier Laboratory, Inc

Project No.: E205960 Project: 478 - 480 Union Street

Batch No.: 95973 Location: New Bedford, MA

	Lab Sample No.	S13 %Rec #	S14 %Rec #	S15 %Rec #	S16 %Rec #	S17 %Rec #	S18 %Rec #	Tot Out
1	E205960-12B	23 *	24 *					2
2	E205960-13B	102	75					0
3	E205960-14B	8.1 *	3.9 *					2
4	E205960-1B	110	105					0
5	E205960-4B	105	88					0
6	E205960-9B	114	92					0

QC Limits

S13= 2,5-dibromotoluene (70-130)
S14= 2,5-dibromotoluene #2 #2 (70-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
Water MADEP VPH Lab Control Sample

Lab Name: Premier Laboratory, Inc Date Analyzed 6/7/2012

Project No.: E205960 Project: 478 - 480 Union Street

Sample No.: VLCS0607 Location: New Bedford, MA

Lab File ID: 2060702.D Batch No.: 95893

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	QC Limits Rec
1,2,4-Trimethylbenzene	20.00	21.22	106	70-130
2-Methylpentane	20.00	21.54	108	70-130
Benzene	20.00	20.89	104	70-130
C5-C8 Aliphatics	60.00	63.08	105	70-130
C9-C10 Aromatics	20.00	22.27	111	70-130
C9-C12 Aliphatics	60.00	64.24	107	70-130
Decane	20.00	20.84	104	70-130
Ethylbenzene	20.00	20.21	101	70-130
m,p-Xylenes	40.00	40.61	102	70-130
Methyl tert-butyl ether (M	20.00	21.06	105	70-130
n-Butylcyclohexane	20.00	21.88	109	70-130
Naphthalene	20.00	24.15	121	70-130
Nonane	20.00	21.53	108	70-130
o-Xylene	20.00	19.56	98	70-130
Toluene	20.00	20.19	101	70-130
Benzene #2	20.00	20.09	100	70-130
Ethylbenzene #2	20.00	21.08	105	70-130
m,p-Xylenes #2	40.00	43.39	108	70-130
Methyl tert-butyl ether (M	20.00	19.81	99	70-130
Naphthalene #2	20.00	25.47	127	70-130
o-Xylene #2	20.00	20.75	104	70-130
Toluene #2	20.00	20.59	103	70-130

FORM 3
Water MADEP VPH Lab Control Sample Duplicate

Lab Name: Premier Laboratory, Inc Date Analyzed 6/7/2012

Project No.: E205960 Project: 478 - 480 Union Street

Sample No.: VLCS0607 Location: New Bedford, MA

Lab File ID: 2060703.D Batch No.: 95893

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	RPD #	QC Limits RPD	QC Limits Rec
1,2,4-Trimethylbenzene	20.00	20.70	103	2.87	25	70-130
2-Methylpentane	20.00	20.66	103	4.74	25	70-130
Benzene	20.00	20.22	101	2.93	25	70-130
C5-C8 Aliphatics	60.00	62.46	104	0.96	25	70-130
C9-C10 Aromatics	20.00	21.65	108	2.74	25	70-130
C9-C12 Aliphatics	60.00	62.35	104	2.84	25	70-130
Decane	20.00	20.25	101	2.93	25	70-130
Ethylbenzene	20.00	19.69	98	3.02	25	70-130
m,p-Xylenes	40.00	39.56	99	2.98	25	70-130
Methyl tert-butyl ether (M	20.00	20.69	103	1.92	25	70-130
n-Butylcyclohexane	20.00	21.18	106	2.79	25	70-130
Naphthalene	20.00	23.24	116	4.22	25	70-130
Nonane	20.00	20.92	105	2.82	25	70-130
o-Xylene	20.00	19.09	95	3.11	25	70-130
Toluene	20.00	19.82	99	2.00	25	70-130
Benzene #2	20.00	19.60	98	2.02	25	70-130
Ethylbenzene #2	20.00	20.46	102	2.90	25	70-130
m,p-Xylenes #2	40.00	42.18	105	2.82	25	70-130
Methyl tert-butyl ether (M	20.00	19.15	96	3.08	25	70-130
Naphthalene #2	20.00	24.34	122	4.02	25	70-130
o-Xylene #2	20.00	20.25	101	2.93	25	70-130
Toluene #2	20.00	19.95	100	2.96	25	70-130

FORM 3
Water MADEP VPH Lab Control Sample

Lab Name: Premier Laboratory, Inc Date Analyzed 6/4/2012

Project No.: E205960 Project: 478 - 480 Union Street

Sample No.: VLCSICV Location: New Bedford, MA

Lab File ID: 2060414.D Batch No.: 95898

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	QC Limits Rec
1,2,4-Trimethylbenzene	50.00	50.56	101	70-130
2-Methylpentane	50.00	49.62	99	70-130
Benzene	50.00	51.21	102	70-130
C5-C8 Aliphatics	150.0	149.2	99	70-130
C9-C10 Aromatics	50.00	50.17	100	70-130
C9-C12 Aliphatics	150.0	136.1	91	70-130
Decane	50.00	45.74	91	70-130
Ethylbenzene	50.00	49.54	99	70-130
m,p-Xylenes	100.0	99.40	99	70-130
Methyl tert-butyl ether (M	50.00	54.20	108	70-130
n-Butylcyclohexane	50.00	42.91	86	70-130
Naphthalene	50.00	50.66	101	70-130
Nonane	50.00	47.43	95	70-130
o-Xylene	50.00	48.75	98	70-130
Toluene	50.00	49.90	100	70-130
Benzene #2	50.00	46.25	92	70-130
Ethylbenzene #2	50.00	48.70	97	70-130
m,p-Xylenes #2	100.0	101.2	101	70-130
Methyl tert-butyl ether (M	50.00	47.09	94	70-130
Naphthalene #2	50.00	51.93	104	70-130
o-Xylene #2	50.00	49.74	99	70-130
Toluene #2	50.00	46.76	94	70-130

FORM 3
Water MADEP VPH Lab Control Sample Duplicate

Lab Name: Premier Laboratory, Inc Date Analyzed 6/4/2012

Project No.: E205960 Project: 478 - 480 Union Street

Sample No.: VLCSICV Location: New Bedford, MA

Lab File ID: 2060419.D Batch No.: 95898

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	RPD #	QC Limits RPD	QC Limits Rec
1,2,4-Trimethylbenzene	20.00	18.80	94	2.10	25	70-130
2-Methylpentane	20.00	19.75	99	3.96	25	70-130
Benzene	20.00	19.65	98	3.02	25	70-130
C5-C8 Aliphatics	60.00	59.57	99	2.00	25	70-130
C9-C10 Aromatics	20.00	19.60	98	1.02	25	70-130
C9-C12 Aliphatics	60.00	53.62	89	4.40	25	70-130
Decane	20.00	18.15	91	3.24	25	70-130
Ethylbenzene	20.00	19.15	96	2.06	25	70-130
m,p-Xylenes	40.00	38.52	96	2.06	25	70-130
Methyl tert-butyl ether (M	20.00	19.62	98	1.02	25	70-130
n-Butylcyclohexane	20.00	16.55	83	3.55	25	70-130
Naphthalene	20.00	18.03	90	1.12	25	70-130
Nonane	20.00	18.92	95	4.12	25	70-130
o-Xylene	20.00	18.77	94	2.10	25	70-130
Toluene	20.00	19.28	96	2.06	25	70-130
Benzene #2	20.00	18.80	94	2.15	25	70-130
Ethylbenzene #2	20.00	19.56	98	2.06	25	70-130
m,p-Xylenes #2	40.00	40.60	102	.930	25	70-130
Methyl tert-butyl ether (M	20.00	18.20	91	1.10	25	70-130
Naphthalene #2	20.00	19.11	96	2.10	25	70-130
o-Xylene #2	20.00	19.64	98	1.02	25	70-130
Toluene #2	20.00	18.89	94	1.07	25	70-130

FORM 3
Water MADEP VPH Lab Control Sample

Lab Name: Premier Laboratory, Inc Date Analyzed 6/4/2012

Project No.: E205960 Project: 478 - 480 Union Street

Sample No.: VLCS0604 Location: New Bedford, MA

Lab File ID: 2060418.D Batch No.: 95898

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	QC Limits Rec
1,2,4-Trimethylbenzene	20.00	19.17	96	70-130
2-Methylpentane	20.00	20.59	103	70-130
Benzene	20.00	20.14	101	70-130
C5-C8 Aliphatics	60.00	60.57	101	70-130
C9-C10 Aromatics	20.00	19.86	99	70-130
C9-C12 Aliphatics	60.00	55.90	93	70-130
Decane	20.00	18.82	94	70-130
Ethylbenzene	20.00	19.57	98	70-130
m,p-Xylenes	40.00	39.37	98	70-130
Methyl tert-butyl ether (M	20.00	19.89	99	70-130
n-Butylcyclohexane	20.00	17.24	86	70-130
Naphthalene	20.00	17.84	89	70-130
Nonane	20.00	19.85	99	70-130
o-Xylene	20.00	19.15	96	70-130
Toluene	20.00	19.69	98	70-130
Benzene #2	20.00	18.50	92	70-130
Ethylbenzene #2	20.00	19.27	96	70-130
m,p-Xylenes #2	40.00	40.98	102	70-130
Methyl tert-butyl ether (M	20.00	17.93	90	70-130
Naphthalene #2	20.00	18.82	94	70-130
o-Xylene #2	20.00	19.87	99	70-130
Toluene #2	20.00	18.58	93	70-130

FORM 3
Water MADEP VPH Lab Control Sample

Lab Name: Premier Laboratory, Inc Date Analyzed 6/6/2012

Project No.: E205960 Project: 478 - 480 Union Street

Sample No.: VLCS0606 Location: New Bedford, MA

Lab File ID: 2060603.D Batch No.: 95973

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	QC Limits Rec
1,2,4-Trimethylbenzene	20.00	20.37	102	70-130
2-Methylpentane	20.00	20.46	102	70-130
Benzene	20.00	19.99	100	70-130
C5-C8 Aliphatics	60.00	60.03	100	70-130
C9-C10 Aromatics	20.00	21.51	108	70-130
C9-C12 Aliphatics	60.00	61.34	102	70-130
Decane	20.00	19.90	99	70-130
Ethylbenzene	20.00	19.54	98	70-130
m,p-Xylenes	40.00	39.28	98	70-130
Methyl tert-butyl ether (M	20.00	19.86	99	70-130
n-Butylcyclohexane	20.00	20.80	104	70-130
Naphthalene	20.00	21.53	108	70-130
Nonane	20.00	20.63	103	70-130
o-Xylene	20.00	18.82	94	70-130
Toluene	20.00	19.53	98	70-130
Benzene #2	20.00	19.40	97	70-130
Ethylbenzene #2	20.00	20.43	102	70-130
m,p-Xylenes #2	40.00	42.04	105	70-130
Methyl tert-butyl ether (M	20.00	18.49	92	70-130
Naphthalene #2	20.00	22.70	114	70-130
o-Xylene #2	20.00	20.09	100	70-130
Toluene #2	20.00	19.83	99	70-130

FORM 3
Water MADEP VPH Lab Control Sample Duplicate

Lab Name: Premier Laboratory, Inc Date Analyzed 6/6/2012

Project No.: E205960 Project: 478 - 480 Union Street

Sample No.: VLCS0606 Location: New Bedford, MA

Lab File ID: 2060604.D Batch No.: 95973

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	RPD #	QC Limits RPD	QC Limits Rec
1,2,4-Trimethylbenzene	20.00	20.14	101	0.98	25	70-130
2-Methylpentane	20.00	19.95	100	1.98	25	70-130
Benzene	20.00	19.62	98	2.02	25	70-130
C5-C8 Aliphatics	60.00	58.55	98	2.02	25	70-130
C9-C10 Aromatics	20.00	21.19	106	1.87	25	70-130
C9-C12 Aliphatics	60.00	59.50	99	2.98	25	70-130
Decane	20.00	19.49	97	2.04	25	70-130
Ethylbenzene	20.00	19.12	96	2.06	25	70-130
m,p-Xylenes	40.00	38.53	96	2.06	25	70-130
Methyl tert-butyl ether (M	20.00	19.95	100	1.00	25	70-130
n-Butylcyclohexane	20.00	20.04	100	3.92	25	70-130
Naphthalene	20.00	21.76	109	0.92	25	70-130
Nonane	20.00	19.96	100	2.96	25	70-130
o-Xylene	20.00	18.44	92	2.15	25	70-130
Toluene	20.00	19.15	96	2.06	25	70-130
Benzene #2	20.00	19.49	97	0	25	70-130
Ethylbenzene #2	20.00	20.12	101	0.98	25	70-130
m,p-Xylenes #2	40.00	41.31	103	1.92	25	70-130
Methyl tert-butyl ether (M	20.00	18.64	93	1.08	25	70-130
Naphthalene #2	20.00	22.92	115	0.87	25	70-130
o-Xylene #2	20.00	19.86	99	1.00	25	70-130
Toluene #2	20.00	19.68	98	1.02	25	70-130

FORM 4
MADEP VPH Method Blank Summary

Project No.: E205960 Project: 478 - 480 Union Street

Lab File ID: 2060421.D Lab Sample ID: VBLK0604

Matrix: Water Date Analyzed: 6/4/2012

Instrument ID: GC2

Batch No.: 95898 Time Analyzed: 2238

This Method Blank Applies To The Followinq Samples, MS and MSD:

	Lab Sample No.	Client Sample ID	Lab File ID	Date Analyzed
1	E205960-2B	WS-13 (13.5-15	2060426.D	6/5/2012
2	E205960-3B	WS-14 (13.5-15	2060433.D	6/5/2012
3	E205960-5B	DUP-1	2060427.D	6/5/2012
4	E205960-8B	WS-17 (15-19')	2060428.D	6/5/2012
5	E205960-10B	WS-19 (15-19')	2060429.D	6/5/2012
6	E205960-11B	WS-20 (13-15')	2060439.D	6/5/2012
7	E205960-15B	WS-24 (13-15')	2060444.D	6/5/2012
8	E205960-22	Trip Blank	2060425.D	6/5/2012
9	VLCS0604	VLCS0604	2060418.D	6/4/2012
10	VLCSD0604	VLCSD0604	2060419.D	6/4/2012
11	VLCSICV	VLCSICV	2060414.D	6/4/2012

FORM 4
MADEP VPH Method Blank Summary

Project No.: E205960 Project: 478 - 480 Union Street

Lab File ID: 2060606.D Lab Sample ID: VBLK0606

Matrix: Water Date Analyzed: 6/6/2012

Instrument ID: GC2

Batch No.: 95973 Time Analyzed: 1153

This Method Blank Applies To The Following Samples, MS and MSD:

	Lab Sample No.	Client Sample ID	Lab File ID	Date Analyzed
1	E205960-1B	WS-12 (13.5-15	2060617.D	6/6/2012
2	E205960-4B	WS-15 (13.5-15	2060619.D	6/6/2012
3	E205960-9B	WS-16 (15-19')	2060621.D	6/6/2012
4	E205960-12B	WS-21 (13-15')	2060623.D	6/6/2012
5	E205960-13B	WS-22 (13-15')	2060615.D	6/6/2012
6	E205960-14B	WS-23 (13-15')	2060625.D	6/6/2012
7	VLCS0606	VLCS0606	2060603.D	6/6/2012
8	VLCSD0606	VLCSD0606	2060604.D	6/6/2012

FORM 4
MADEP VPH Method Blank Summary

Project No.: E205960 Project: 478 - 480 Union Street

Lab File ID: 2060708.D Lab Sample ID: VBLK0607

Matrix: Water Date Analyzed: 6/7/2012

Instrument ID: GC2

Batch No.: 95893 Time Analyzed: 1305

This Method Blank Applies To The Following Samples, MS and MSD:

	Lab Sample No.	Client Sample ID	Lab File ID	Date Analyzed
1	E205960-6B	WS-18 (15-19')	2060721.D	6/7/2012
2	E205960-7B	WS-18 (15-19')	2060722.D	6/7/2012
3	E205960-23B	WS-18 (15-19')	2060806.D	6/8/2012
4	VLCS0607	VLCS0607	2060702.D	6/7/2012
5	VLCSD0607	VLCSD0607	2060703.D	6/7/2012

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June 11, 2012

Brad Gauthier
Premier Laboratory
61 Louisa Viens Drive
Dayville, CT 06241

Project Location: New Bedford, MA
Client Job Number:
Project Number: E205G37
Laboratory Work Order Number: 12E1131

Enclosed are results of analyses for samples received by the laboratory on May 31, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Premier Laboratory
61 Louisa Viens Drive
Dayville, CT 06241
ATTN: Brad Gauthier

REPORT DATE: 6/11/2012

PURCHASE ORDER NUMBER: E205G37

PROJECT NUMBER: E205G37

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E1131

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
E205960-11C	12E1131-01	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
E205960-12C	12E1131-02	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
E205960-13C	12E1131-03	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
E205960-14C	12E1131-04	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
E205960-15C	12E1131-05	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
E205960-21C	12E1131-06	Soil		MADEP-EPH-04-1.1	
				SM 2540G	
LCS	12E1131-07	Soil		MADEP-EPH-04-1.1	
LCS 2	12E1131-08	Soil		MADEP-EPH-04-1.1	
LCS 3	12E1131-09	Soil		MADEP-EPH-04-1.1	
Blank	12E1131-10	Soil		MADEP-EPH-04-1.1	

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CASE NARRATIVE SUMMARY

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

For MA EPH analysis, Con-Test Analytical Laboratory performed only the analysis, not the extraction.

MADEP-EPH-04-1.1

Qualifications:

Surrogate recovery outside of control limits due to suspected sample matrix interference.

Analyte & Samples(s) Qualified:

o-Terphenyl (OTP)

12E1131-02[E205960-12C]

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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Project Location: New Bedford, MA | Sample Description: | Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: E205960-11C | Sampled: 5/11/2012 14:30

Sample ID: 12E1131-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	32000	4900	mg/Kg dry	20		MADEP-EPH-04-1.1	6/4/12	6/7/12 10:25	SCS
C19-C36 Aliphatics	3900	250	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Unadjusted C11-C22 Aromatics	11000	1200	mg/Kg dry	5		MADEP-EPH-04-1.1	6/4/12	6/7/12 10:25	SCS
C11-C22 Aromatics	11000	1200	mg/Kg dry	5		MADEP-EPH-04-1.1	6/4/12	6/7/12 10:25	SCS
Acenaphthene	27	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Acenaphthylene	65	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Anthracene	3.3	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Benzo(a)anthracene	ND	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Benzo(a)pyrene	ND	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Benzo(b)fluoranthene	ND	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Benzo(g,h,i)perylene	ND	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Benzo(k)fluoranthene	ND	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Chrysene	ND	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Dibenz(a,h)anthracene	ND	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Fluoranthene	2.9	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Fluorene	66	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Indeno(1,2,3-cd)pyrene	ND	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
2-Methylnaphthalene	170	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Naphthalene	47	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Phenanthrene	45	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS
Pyrene	3.4	2.5	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 19:46	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	64.0	40-140		6/6/12 19:46
o-Terphenyl (OTP)	109	40-140		6/6/12 19:46
2-Bromonaphthalene	62.6	40-140		6/6/12 19:46
2-Fluorobiphenyl	77.8	40-140		6/6/12 19:46

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Project Location: New Bedford, MA
Sample Description:
Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: E205960-11C
Sampled: 5/11/2012 14:30

Sample ID: 12E1131-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	8.04		% Wt	1		SM 2540G	6/5/12	6/5/12 14:45	FWD

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Project Location: New Bedford, MA | Sample Description: | Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: E205960-12C | Sampled: 5/11/2012 15:00

Sample ID: 12E1131-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	55000	8200	mg/Kg dry	50		MADEP-EPH-04-1.1	6/4/12	6/6/12 12:19	SCS
C19-C36 Aliphatics	8200	8200	mg/Kg dry	50		MADEP-EPH-04-1.1	6/4/12	6/6/12 12:19	SCS
Unadjusted C11-C22 Aromatics	15000	1600	mg/Kg dry	10		MADEP-EPH-04-1.1	6/4/12	6/6/12 12:19	SCS
C11-C22 Aromatics	14000	1600	mg/Kg dry	10		MADEP-EPH-04-1.1	6/4/12	6/6/12 12:19	SCS
Acenaphthene	40	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Acenaphthylene	110	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Anthracene	5.5	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Benzo(a)anthracene	ND	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Benzo(a)pyrene	ND	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Benzo(b)fluoranthene	ND	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Benzo(g,h,i)perylene	ND	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Benzo(k)fluoranthene	ND	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Chrysene	ND	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Dibenz(a,h)anthracene	ND	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Fluoranthene	4.1	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Fluorene	110	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Indeno(1,2,3-cd)pyrene	ND	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
2-Methylnaphthalene	470	16	mg/Kg dry	10		MADEP-EPH-04-1.1	6/4/12	6/6/12 12:19	SCS
Naphthalene	120	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Phenanthrene	73	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS
Pyrene	5.6	1.6	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 17:41	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	76.3	40-140		6/5/12 17:41
o-Terphenyl (OTP)	**156** *	40-140	S-03	6/5/12 17:41
2-Bromonaphthalene	50.2	40-140		6/5/12 17:41
2-Fluorobiphenyl	98.7	40-140		6/5/12 17:41

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Project Location: New Bedford, MA
Sample Description:
Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: E205960-12C
Sampled: 5/11/2012 15:00

Sample ID: 12E1131-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	12.2		% Wt	1		SM 2540G	6/5/12	6/5/12 14:45	FWD

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

Project Location: New Bedford, MA | Sample Description: | Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: E205960-13C | Sampled: 5/11/2012 16:00

Sample ID: 12E1131-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	16000	2500	mg/Kg dry	20		MADEP-EPH-04-1.1	6/4/12	6/6/12 14:50	SCS
C19-C36 Aliphatics	2000	130	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Unadjusted C11-C22 Aromatics	4500	630	mg/Kg dry	5		MADEP-EPH-04-1.1	6/4/12	6/6/12 14:50	SCS
C11-C22 Aromatics	4400	630	mg/Kg dry	5		MADEP-EPH-04-1.1	6/4/12	6/6/12 14:50	SCS
Acenaphthene	10	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Acenaphthylene	18	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Anthracene	1.9	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Benzo(a)anthracene	ND	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Benzo(a)pyrene	ND	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Benzo(b)fluoranthene	ND	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Benzo(g,h,i)perylene	ND	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Benzo(k)fluoranthene	ND	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Chrysene	ND	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Dibenz(a,h)anthracene	ND	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Fluoranthene	ND	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Fluorene	25	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Indeno(1,2,3-cd)pyrene	ND	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
2-Methylnaphthalene	12	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Naphthalene	14	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Phenanthrene	23	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS
Pyrene	1.6	1.3	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	72.5	40-140		6/5/12 18:02
o-Terphenyl (OTP)	112	40-140		6/5/12 18:02
2-Bromonaphthalene	42.1	40-140		6/5/12 18:02
2-Fluorobiphenyl	96.2	40-140		6/5/12 18:02

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

Project Location: New Bedford, MA
Sample Description:
Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: E205960-13C
Sampled: 5/11/2012 16:00

Sample ID: 12E1131-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	15.5		% Wt	1		SM 2540G	6/5/12	6/5/12 14:45	FWD

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Project Location: New Bedford, MA | Sample Description: | Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: E205960-14C | Sampled: 5/11/2012 15:30

Sample ID: 12E1131-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	10000	1100	mg/Kg dry	10		MADEP-EPH-04-1.1	6/4/12	6/6/12 15:11	SCS
C19-C36 Aliphatics	1400	110	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Unadjusted C11-C22 Aromatics	4100	540	mg/Kg dry	5		MADEP-EPH-04-1.1	6/4/12	6/6/12 15:11	SCS
C11-C22 Aromatics	4000	540	mg/Kg dry	5		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Acenaphthene	8.9	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Acenaphthylene	27	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Anthracene	1.5	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Benzo(a)anthracene	ND	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Benzo(a)pyrene	ND	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Benzo(b)fluoranthene	ND	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Benzo(g,h,i)perylene	ND	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Benzo(k)fluoranthene	ND	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Chrysene	ND	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Dibenz(a,h)anthracene	ND	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Fluoranthene	ND	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Fluorene	27	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Indeno(1,2,3-cd)pyrene	ND	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
2-Methylnaphthalene	68	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Naphthalene	21	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Phenanthrene	17	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS
Pyrene	2.2	1.1	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 18:23	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	76.5	40-140		6/5/12 18:23
o-Terphenyl (OTP)	84.1	40-140		6/5/12 18:23
2-Bromonaphthalene	62.5	40-140		6/5/12 18:23
2-Fluorobiphenyl	95.9	40-140		6/5/12 18:23

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

Project Location: New Bedford, MA
Sample Description:
Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: E205960-14C
Sampled: 5/11/2012 15:30

Sample ID: 12E1131-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	18.3		% Wt	1		SM 2540G	6/5/12	6/5/12 14:45	FWD

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Project Location: New Bedford, MA | Sample Description: | Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: E205960-15C | Sampled: 5/11/2012 14:00

Sample ID: 12E1131-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	19000	2400	mg/Kg dry	10		MADEP-EPH-04-1.1	6/4/12	6/7/12 10:46	SCS
C19-C36 Aliphatics	3000	240	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Unadjusted C11-C22 Aromatics	9300	1200	mg/Kg dry	5		MADEP-EPH-04-1.1	6/4/12	6/7/12 10:46	SCS
C11-C22 Aromatics	8900	1200	mg/Kg dry	5		MADEP-EPH-04-1.1	6/4/12	6/7/12 10:46	SCS
Acenaphthene	20	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Acenaphthylene	55	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Anthracene	8.4	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Benzo(a)anthracene	ND	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Benzo(a)pyrene	ND	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Benzo(b)fluoranthene	ND	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Benzo(g,h,i)perylene	ND	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Benzo(k)fluoranthene	ND	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Chrysene	ND	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Dibenz(a,h)anthracene	ND	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Fluoranthene	3.1	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Fluorene	58	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Indeno(1,2,3-cd)pyrene	ND	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
2-Methylnaphthalene	230	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Naphthalene	64	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Phenanthrene	40	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS
Pyrene	7.0	2.4	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	66.2	40-140		6/6/12 20:07
o-Terphenyl (OTP)	73.5	40-140		6/6/12 20:07
2-Bromonaphthalene	49.5	40-140		6/6/12 20:07
2-Fluorobiphenyl	84.4	40-140		6/6/12 20:07

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

Project Location: New Bedford, MA
Sample Description:
Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: E205960-15C
Sampled: 5/11/2012 14:00

Sample ID: 12E1131-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	8.32		% Wt	1		SM 2540G	6/5/12	6/5/12 14:45	FWD

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Project Location: New Bedford, MA | Sample Description: | Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: E205960-21C | Sampled: 5/11/2012 00:00

Sample ID: 12E1131-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	20000	1900	mg/Kg dry	10		MADEP-EPH-04-1.1	6/4/12	6/6/12 15:32	SCS
C19-C36 Aliphatics	3400	1900	mg/Kg dry	10		MADEP-EPH-04-1.1	6/4/12	6/6/12 15:32	SCS
Unadjusted C11-C22 Aromatics	11000	1900	mg/Kg dry	10		MADEP-EPH-04-1.1	6/4/12	6/6/12 15:32	SCS
C11-C22 Aromatics	11000	1900	mg/Kg dry	10		MADEP-EPH-04-1.1	6/4/12	6/6/12 15:32	SCS
Acenaphthene	22	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Acenaphthylene	59	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Anthracene	9.4	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Benzo(a)anthracene	ND	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Benzo(a)pyrene	ND	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Benzo(b)fluoranthene	ND	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Benzo(g,h,i)perylene	ND	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Benzo(k)fluoranthene	ND	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Chrysene	ND	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Dibenz(a,h)anthracene	ND	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Fluoranthene	4.0	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Fluorene	62	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Indeno(1,2,3-cd)pyrene	ND	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
2-Methylnaphthalene	150	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Naphthalene	51	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Phenanthrene	42	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS
Pyrene	7.7	1.9	mg/Kg dry	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:05	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	76.9	40-140		6/5/12 19:05
o-Terphenyl (OTP)	95.7	40-140		6/5/12 19:05
2-Bromonaphthalene	64.3	40-140		6/5/12 19:05
2-Fluorobiphenyl	106	40-140		6/5/12 19:05

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Project Location: New Bedford, MA
Sample Description:
Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: E205960-21C
Sampled: 5/11/2012 00:00

Sample ID: 12E1131-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	10.6		% Wt	1		SM 2540G	6/5/12	6/5/12 14:45	FWD

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

Project Location: New Bedford, MA | Sample Description: | Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: LCS | Sampled: 5/11/2012 00:00

Sample ID: 12E1131-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	36	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
C19-C36 Aliphatics	46	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Unadjusted C11-C22 Aromatics	71	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
C11-C22 Aromatics	ND	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Acenaphthene	3.9	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Acenaphthylene	3.3	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Anthracene	3.4	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Benzo(a)anthracene	3.9	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Benzo(a)pyrene	3.3	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Benzo(b)fluoranthene	3.6	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Benzo(g,h,i)perylene	3.7	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Benzo(k)fluoranthene	3.7	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Chrysene	3.7	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Dibenz(a,h)anthracene	3.9	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Fluoranthene	3.8	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Fluorene	3.5	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Indeno(1,2,3-cd)pyrene	3.5	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
2-Methylnaphthalene	2.8	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Naphthalene	2.6	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Phenanthrene	3.5	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS
Pyrene	3.5	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:26	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	79.4	40-140		6/5/12 19:26
o-Terphenyl (OTP)	79.4	40-140		6/5/12 19:26
2-Bromonaphthalene	85.8	40-140		6/5/12 19:26
2-Fluorobiphenyl	97.2	40-140		6/5/12 19:26

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

Project Location: New Bedford, MA | Sample Description: | Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: LCS 2 | Sampled: 5/11/2012 00:00

Sample ID: 12E1131-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	34	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
C19-C36 Aliphatics	45	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Unadjusted C11-C22 Aromatics	73	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
C11-C22 Aromatics	ND	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Acenaphthene	3.9	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Acenaphthylene	3.3	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Anthracene	3.6	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Benzo(a)anthracene	4.1	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Benzo(a)pyrene	3.4	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Benzo(b)fluoranthene	3.8	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Benzo(g,h,i)perylene	3.8	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Benzo(k)fluoranthene	3.9	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Chrysene	3.8	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Dibenz(a,h)anthracene	4.0	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Fluoranthene	4.0	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Fluorene	3.6	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Indeno(1,2,3-cd)pyrene	3.6	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
2-Methylnaphthalene	2.8	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Naphthalene	2.8	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Phenanthrene	3.6	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS
Pyrene	3.7	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 19:47	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	77.5	40-140		6/5/12 19:47
o-Terphenyl (OTP)	80.9	40-140		6/5/12 19:47
2-Bromonaphthalene	90.5	40-140		6/5/12 19:47
2-Fluorobiphenyl	102	40-140		6/5/12 19:47

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

Project Location: New Bedford, MA | Sample Description: | Work Order: 12E1131

Date Received: 5/31/2012

Field Sample #: LCS 3 | Sampled: 5/11/2012 00:00

Sample ID: 12E1131-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	38	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
C19-C36 Aliphatics	49	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Unadjusted C11-C22 Aromatics	80	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
C11-C22 Aromatics	ND	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Acenaphthene	4.5	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Acenaphthylene	3.6	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Anthracene	3.9	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Benzo(a)anthracene	4.4	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Benzo(a)pyrene	3.6	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Benzo(b)fluoranthene	4.0	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Benzo(g,h,i)perylene	4.1	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Benzo(k)fluoranthene	4.2	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Chrysene	4.1	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Dibenz(a,h)anthracene	4.3	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Fluoranthene	4.4	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Fluorene	4.1	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Indeno(1,2,3-cd)pyrene	3.9	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
2-Methylnaphthalene	3.2	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Naphthalene	2.9	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Phenanthrene	4.0	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS
Pyrene	4.0	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/6/12 20:28	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	80.4	40-140		6/6/12 20:28
o-Terphenyl (OTP)	89.1	40-140		6/6/12 20:28
2-Bromonaphthalene	94.5	40-140		6/6/12 20:28
2-Fluorobiphenyl	107	40-140		6/6/12 20:28

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

Project Location: New Bedford, MA
Sample Description:
Work Order: 12E1131
Date Received: 5/31/2012
Field Sample #: Blank
Sampled: 5/11/2012 00:00
Sample ID: 12E1131-10
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
C19-C36 Aliphatics	ND	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Unadjusted C11-C22 Aromatics	ND	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
C11-C22 Aromatics	ND	20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Acenaphthene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Acenaphthylene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Anthracene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Benzo(a)anthracene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Benzo(a)pyrene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Benzo(b)fluoranthene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Benzo(g,h,i)perylene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Benzo(k)fluoranthene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Chrysene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Dibenz(a,h)anthracene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Fluoranthene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Fluorene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
2-Methylnaphthalene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Naphthalene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Phenanthrene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS
Pyrene	ND	0.20	mg/Kg wet	1		MADEP-EPH-04-1.1	6/4/12	6/5/12 20:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	79.4	40-140		6/5/12 20:29
o-Terphenyl (OTP)	82.3	40-140		6/5/12 20:29
2-Bromonaphthalene	96.6	40-140		6/5/12 20:29
2-Fluorobiphenyl	99.8	40-140		6/5/12 20:29

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

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E1131-01 [E205960-11C]	B052670	10.1	2.00	06/04/12
12E1131-02 [E205960-12C]	B052670	10.0	2.00	06/04/12
12E1131-03 [E205960-13C]	B052670	10.2	2.00	06/04/12
12E1131-04 [E205960-14C]	B052670	10.2	2.00	06/04/12
12E1131-05 [E205960-15C]	B052670	10.1	2.00	06/04/12
12E1131-06 [E205960-21C]	B052670	10.0	2.00	06/04/12
12E1131-07 [LCS]	B052670	10.0	2.00	06/04/12
12E1131-08 [LCS 2]	B052670	10.0	2.00	06/04/12
12E1131-09 [LCS 3]	B052670	10.0	2.00	06/04/12
12E1131-10 [Blank]	B052670	10.0	2.00	06/04/12

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12E1131-01 [E205960-11C]	B052791	06/05/12
12E1131-02 [E205960-12C]	B052791	06/05/12
12E1131-03 [E205960-13C]	B052791	06/05/12
12E1131-04 [E205960-14C]	B052791	06/05/12
12E1131-05 [E205960-15C]	B052791	06/05/12
12E1131-06 [E205960-21C]	B052791	06/05/12

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052670 - SW-846 3546										
Blank (B052670-BLK1)				Prepared & Analyzed: 06/05/12						
C9-C18 Aliphatics	ND	20	mg/Kg wet							
C19-C36 Aliphatics	ND	20	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	20	mg/Kg wet							
C11-C22 Aromatics	ND	20	mg/Kg wet							
Acenaphthene	ND	0.20	mg/Kg wet							
Acenaphthylene	ND	0.20	mg/Kg wet							
Anthracene	ND	0.20	mg/Kg wet							
Benzo(a)anthracene	ND	0.20	mg/Kg wet							
Benzo(a)pyrene	ND	0.20	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.20	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.20	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.20	mg/Kg wet							
Chrysene	ND	0.20	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.20	mg/Kg wet							
Fluoranthene	ND	0.20	mg/Kg wet							
Fluorene	ND	0.20	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg wet							
2-Methylnaphthalene	ND	0.20	mg/Kg wet							
Naphthalene	ND	0.20	mg/Kg wet							
Phenanthrene	ND	0.20	mg/Kg wet							
Pyrene	ND	0.20	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.17*		mg/Kg wet	3.99		79.4	40-140			
Surrogate: o-Terphenyl (OTP)	*3.29*		mg/Kg wet	4.00		82.3	40-140			
Surrogate: 2-Bromonaphthalene	*9.66*		mg/Kg wet	10.0		96.6	40-140			
Surrogate: 2-Fluorobiphenyl	*9.98*		mg/Kg wet	10.0		99.8	40-140			
LCS (B052670-BS1)				Prepared & Analyzed: 06/05/12						
Acenaphthene	3.88	0.20	mg/Kg wet	5.00		77.6	40-140			
Acenaphthylene	3.28	0.20	mg/Kg wet	5.00		65.7	40-140			
Anthracene	3.41	0.20	mg/Kg wet	5.00		68.3	40-140			
Benzo(a)anthracene	3.92	0.20	mg/Kg wet	5.00		78.4	40-140			
Benzo(a)pyrene	3.28	0.20	mg/Kg wet	5.00		65.6	40-140			
Benzo(b)fluoranthene	3.60	0.20	mg/Kg wet	5.00		72.0	40-140			
Benzo(g,h,i)perylene	3.67	0.20	mg/Kg wet	5.00		73.5	40-140			
Benzo(k)fluoranthene	3.73	0.20	mg/Kg wet	5.00		74.5	40-140			
Chrysene	3.65	0.20	mg/Kg wet	5.00		73.0	40-140			
Dibenz(a,h)anthracene	3.86	0.20	mg/Kg wet	5.00		77.2	40-140			
Fluoranthene	3.83	0.20	mg/Kg wet	5.00		76.6	40-140			
Fluorene	3.54	0.20	mg/Kg wet	5.00		70.8	40-140			
Indeno(1,2,3-cd)pyrene	3.48	0.20	mg/Kg wet	5.00		69.7	40-140			
2-Methylnaphthalene	2.81	0.20	mg/Kg wet	5.00		56.2	40-140			
Naphthalene	2.56	0.20	mg/Kg wet	5.00		51.2	40-140			
Phenanthrene	3.48	0.20	mg/Kg wet	5.00		69.7	40-140			
Pyrene	3.50	0.20	mg/Kg wet	5.00		70.0	40-140			
n-Decane	3.19	0.20	mg/Kg wet	5.00		63.8	40-140			
n-Docosane	5.20	0.20	mg/Kg wet	5.00		104	40-140			
n-Dodecane	3.88	0.20	mg/Kg wet	5.00		77.5	40-140			
n-Eicosane	5.11	0.20	mg/Kg wet	5.00		102	40-140			
n-Hexacosane	4.89	0.20	mg/Kg wet	5.00		97.8	40-140			
n-Hexadecane	5.29	0.20	mg/Kg wet	5.00		106	40-140			
n-Hexatriacontane	4.51	0.20	mg/Kg wet	5.00		90.2	40-140			
n-Nonadecane	4.95	0.20	mg/Kg wet	5.00		99.1	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052670 - SW-846 3546										
LCS (B052670-BS1)				Prepared & Analyzed: 06/05/12						
n-Nonane	2.35	0.20	mg/Kg wet	5.00		47.1	30-140			
n-Octacosane	4.89	0.20	mg/Kg wet	5.00		97.7	40-140			
n-Octadecane	5.40	0.20	mg/Kg wet	5.00		108	40-140			
n-Tetracosane	4.87	0.20	mg/Kg wet	5.00		97.4	40-140			
n-Tetradecane	4.49	0.20	mg/Kg wet	5.00		89.8	40-140			
n-Triacontane	4.82	0.20	mg/Kg wet	5.00		96.4	40-140			
Naphthalene-aliphatic fraction	ND	0.20	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.20	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.17*		mg/Kg wet	3.99		79.4	40-140			
Surrogate: o-Terphenyl (OTP)	*3.18*		mg/Kg wet	4.00		79.4	40-140			
Surrogate: 2-Bromonaphthalene	*8.58*		mg/Kg wet	10.0		85.8	40-140			
Surrogate: 2-Fluorobiphenyl	*9.72*		mg/Kg wet	10.0		97.2	40-140			
LCS Dup (B052670-BSD1)				Prepared & Analyzed: 06/05/12						
Acenaphthene	3.92	0.20	mg/Kg wet	5.00		78.5	40-140	1.13	25	
Acenaphthylene	3.31	0.20	mg/Kg wet	5.00		66.3	40-140	0.885	25	
Anthracene	3.57	0.20	mg/Kg wet	5.00		71.4	40-140	4.51	25	
Benzo(a)anthracene	4.14	0.20	mg/Kg wet	5.00		82.8	40-140	5.49	25	
Benzo(a)pyrene	3.45	0.20	mg/Kg wet	5.00		69.0	40-140	5.09	25	
Benzo(b)fluoranthene	3.81	0.20	mg/Kg wet	5.00		76.2	40-140	5.63	25	
Benzo(g,h,i)perylene	3.81	0.20	mg/Kg wet	5.00		76.1	40-140	3.53	25	
Benzo(k)fluoranthene	3.91	0.20	mg/Kg wet	5.00		78.3	40-140	4.90	25	
Chrysene	3.85	0.20	mg/Kg wet	5.00		76.9	40-140	5.20	25	
Dibenz(a,h)anthracene	4.03	0.20	mg/Kg wet	5.00		80.6	40-140	4.27	25	
Fluoranthene	4.03	0.20	mg/Kg wet	5.00		80.6	40-140	5.19	25	
Fluorene	3.63	0.20	mg/Kg wet	5.00		72.6	40-140	2.40	25	
Indeno(1,2,3-cd)pyrene	3.64	0.20	mg/Kg wet	5.00		72.8	40-140	4.44	25	
2-Methylnaphthalene	2.82	0.20	mg/Kg wet	5.00		56.4	40-140	0.362	25	
Naphthalene	2.81	0.20	mg/Kg wet	5.00		56.3	40-140	9.45	25	
Phenanthrene	3.64	0.20	mg/Kg wet	5.00		72.8	40-140	4.34	25	
Pyrene	3.71	0.20	mg/Kg wet	5.00		74.1	40-140	5.71	25	
n-Decane	3.08	0.20	mg/Kg wet	5.00		61.6	40-140	3.53	25	
n-Docosane	5.25	0.20	mg/Kg wet	5.00		105	40-140	1.04	25	
n-Dodecane	3.76	0.20	mg/Kg wet	5.00		75.2	40-140	3.04	25	
n-Eicosane	5.15	0.20	mg/Kg wet	5.00		103	40-140	0.800	25	
n-Hexacosane	4.88	0.20	mg/Kg wet	5.00		97.6	40-140	0.197	25	
n-Hexadecane	5.26	0.20	mg/Kg wet	5.00		105	40-140	0.573	25	
n-Hexatriacontane	4.38	0.20	mg/Kg wet	5.00		87.6	40-140	3.00	25	
n-Nonadecane	4.96	0.20	mg/Kg wet	5.00		99.2	40-140	0.141	25	
n-Nonane	2.24	0.20	mg/Kg wet	5.00		44.7	30-140	5.15	25	
n-Octacosane	4.89	0.20	mg/Kg wet	5.00		97.8	40-140	0.0532	25	
n-Octadecane	5.44	0.20	mg/Kg wet	5.00		109	40-140	0.778	25	
n-Tetracosane	4.87	0.20	mg/Kg wet	5.00		97.4	40-140	0.0370	25	
n-Tetradecane	4.38	0.20	mg/Kg wet	5.00		87.7	40-140	2.41	25	
n-Triacontane	4.81	0.20	mg/Kg wet	5.00		96.3	40-140	0.0997	25	
Naphthalene-aliphatic fraction	ND	0.20	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.20	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.09*		mg/Kg wet	3.99		77.5	40-140			
Surrogate: o-Terphenyl (OTP)	*3.24*		mg/Kg wet	4.00		80.9	40-140			
Surrogate: 2-Bromonaphthalene	*9.05*		mg/Kg wet	10.0		90.5	40-140			
Surrogate: 2-Fluorobiphenyl	*10.2*		mg/Kg wet	10.0		102	40-140			

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
S-03	Surrogate recovery outside of control limits due to suspected sample matrix interference.

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME
C19-C36 Aliphatics	CT,NC,WA,ME
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME
C11-C22 Aromatics	CT,NC,WA,ME
Acenaphthene	CT,NC,WA,ME
Acenaphthylene	CT,NC,WA,ME
Anthracene	CT,NC,WA,ME
Benzo(a)anthracene	CT,NC,WA,ME
Benzo(a)pyrene	CT,NC,WA,ME
Benzo(b)fluoranthene	CT,NC,WA,ME
Benzo(g,h,i)perylene	CT,NC,WA,ME
Benzo(k)fluoranthene	CT,NC,WA,ME
Chrysene	CT,NC,WA,ME
Dibenz(a,h)anthracene	CT,NC,WA,ME
Fluoranthene	CT,NC,WA,ME
Fluorene	CT,NC,WA,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME
2-Methylnaphthalene	CT,NC,WA,ME
Naphthalene	CT,NC,WA,ME
Phenanthrene	CT,NC,WA,ME
Pyrene	CT,NC,WA,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

12E1131

SUB TO:

Con-Test Laboratory
39 Spruce Street
East Longmeadow, MA 01028
Attn: Meghan Kelley

Chain of Custody

WWW.PREMIERLABORATORY.COM

Lab WO#:

Project Manager:

Copy of Report To		Billing Information		Project Information	
CUSTOMER:	Premier Laboratory Inc.	BILL TO:	Premier Laboratory Inc.	Project:	**E205960**
ADDRESS:	61 Louisa Viens Drive	ADDRESS:	61 Louisa Viens Drive	Project Location:	New Bedford, MA
	Dayville, CT 06241		Dayville, CT 06241	Project Manager:	Bradford Gauthier
				IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:	
ATTENTION:	Bradford Gauthier	ATTENTION:	Accounts Payable	E-MAIL:	BradG@PremierLaboratory.com
E-MAIL:	BradG@PremierLaboratory.com	TELEPHONE:	860-774-6814	TELEPHONE:	860-774-6814
PHONE:	860-774-6814 Fax: 860-774-2689	PURCHASE ORDER # :	E205960	FAX:	860-774-2689

Sample Identification	Date Collected	Time Collected	Sample Type: COMPOSITE	Sample Type: EXTRACT	Sample Matrix	Bottles	EPH - MCP Compliant	Analysis							Preservatives: H2SO4	HCL	HNO3	NAOH	NON-PRES	MeOH
-01 E205960-11C [WS-20 (13-15')]	5/11/12	14:30		X	Soil	1	X												X	
-02 E205960-12C [WS-21 (13-15')]	5/11/12	15:00		X	Soil	1	X												X	
-03 E205960-13C [WS-22 (13-15')]	5/11/12	16:00		X	Soil	1	X												X	
-04 E205960-14C [WS-23 (13-15')]	5/11/12	15:30		X	Soil	1	X												X	
-05 E205960-15C [WS-24 (13-15')]	5/11/12	14:00		X	Soil	1	X												X	
-06 E205960-21C																				
-07 LCS																				
-08 LCS-2																				
-09 LCS-3																				
-10 Blank																				

(*) See attached sheet. MEP

CUSTODY TRANSFER		DATE	TIME
SAMPLER:	Weston & Sampson	5/11/2012	See Above
RECEIVED:			
RELINQUISHED:			
RECEIVED:	Stacy Dyhan 4.8	5/31/12	11:00
RELINQUISHED:			
RECEIVED:			

TURNAROUND (INDICATE IN CALENDAR DAYS): 14 FAX 14 HARD COPY 14 E-MAIL

EXPEDITED SERVICE MAY BE SUBJECT TO SURCHARGE

COMMENTS: **Also included are the QA/QC requirements for EPH: Blank, LCS, LCS Dup. - SEE ATTACHMENT**

CONDITIONS UPON RECEIPT: (CHECK ONE)

■ COOLED ☐ AMBIENT 4.8° °C Upon Receipt at LAB

(*) Run per Brad G. MEP 5/31/12

E205960

SAMPLE	WEIGHT (G)
BLANK	10
LCS	10
LCS DUPLICATE	10
E205960-11C	10.1
E205960-12C	10.04
E205960-13C	10.22
E205960-14C	10.15
E205960-15C	10.14
E205960-21	10

All samples and QC were spiked with 1 mL of a 40 mg/L surrogate solution.
Surrogates are 1-chlorooctadecane and o-terphenyl
LCS and LCS duplicate were spiked with 1 mL of a 50 mg/L solution containing both aliphatic and aromatic hydrocarbons per MCP method.

Premier
Laboratory, Inc

61 Louisa Viens Drive
Dayville, CT 06241
860-774-2689
860-774-6814 800-932-1150

Order: BE205451
ID: 57338

** L

Company: **Con-Test Laboratory**
Address: Con-Test Laboratory
39 Spruce Street
East Longmeadow, MA 01028
413-525-2332

n: 05/30/2012 17:21
ct: EPH Drop-off
t: Meghan Kelly
: Bradford Gauthier

Bottle Order must be delivered no later than: 05/31/20 me

Method of shipment: LAB Driver

Matrix	ST	C/G	Qty	Size	Type	Preservative	Anal s

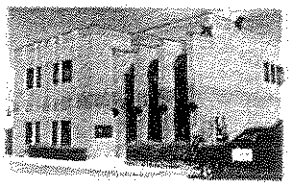
Preservatives:
ST: S = Sample; TB = Trip Blank; FB = Field Blank
C/G: C = Composite; G = Grab

Ice Packs No Coolers No Labels No COC No Custody Seals No
Field Blanks No Trip Blanks No DI Water No Volume ___
Protective Wrap No Cooler Qty ___

Comments: Please deliver a cooler w/ packaged samples to the attention of Meghan Kelly at Contest. The cooler is in the middle walk-in cooler with a copy of this sheet taped to the lid.

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Premier + Weston + Sampson RECEIVED BY: SD DATE: 5/31/12

1) Was the chain(s) of custody relinquished and signed? Yes (No) No CoC Included

2) Does the chain agree with the samples? Yes (No)
If not, explain:

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) How were the samples received:
On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.8

5) Are there Dissolved samples for the lab to filter? Yes (No)
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No (N/A) _____

9) Do all samples have the proper Base pH: Yes No (N/A) _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
250mL Other clear glass	10	Other	

Laboratory Comments: See Premiers second sheet. Has all the I.D.'s of samples we received that are not on COC (Blank, LCS, LCSDup, E205960-21 ~~Sample LCS is not on COC or 2nd page~~

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E1131
Project Location: New Bedford, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E1131-01 thru 12E1131-10

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A (X)	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is 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[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes ☐ No[1]
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[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes ☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☑ Yes ☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes ☐ No[1]

A response to questions G, H and I below is 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[1]

***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 perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case 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: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 06/11/12

FORM 3

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: PREMIER LABORATORY, LLC Date Analyzed: 08/01/2012

Project No.: Project: 97625

Sample No.: 0596025 LFM Location:

COMPOUND	SPIKE ADDED (ppb)	SAMPLE CONCENTRATION (ppb)	MS CONCENTRATION (ppb)	MS % REC #	QC LIMITS REC
Lead	27960	87000	135900	175*	70-130

COMPOUND	SPIKE ADDED (ppb)	MSD CONCENTRATION (ppb)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
Lead	27960	148400	220*	22.8*	20	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 1 outside limits
Spike Recovery: 2 out of 2 outside limits

COMMENTS: _____

FILE: 100411A.lim

Premier Laboratory
61 Louisa Viens Drive
Dayville, CT 06241
Phone: (800) 334-0103
Fax: (860) 774-2689

Chain of Custody

WWW.PREMIERLABORATORY.COM

Lab WO#: E205960
Project Manager: BG

Copy of Report To	Billing Information	Project Information
CUSTOMER: WESTON & SAMPSON	BILL TO: GSD, NEW BEDFORD	Project: 478-480 UNION STREET
ADDRESS: 1000 FOXBOROUGH BLVD, FOXBOROUGH, MA	ADDRESS: 133 WILLIAM STREET, RM 354, NEW BEDFORD, MA 02740	Project Location: NEW BEDFORD, MA
		Project Manager: SEAN HEALEY
ATTENTION: SEAN HEALEY	ATTENTION: CHERYL HENLIN	IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL: E-MAIL: healeys@wseinc.com
E-MAIL: healeys@wseinc.com; pittsm@wseinc.com	TELEPHONE:	TELEPHONE: 800 SAMPSON
PHONE: 800 SAMPSON Fax:	PURCHASE ORDER # :	FAX:

Sample Identification	Date Collected	Time Collected	Sample Type: COMPOSITE	Sample Type: GRAB	Sample Matrix DW, WW, GW, Solid	# OF BOTTLES	Analysis: VPH in Tracks	Analysis: EPH in Tracks	Preservatives: H2SO4	HCL	HNO3	NAOH	NON-PRES	MeOH
WS-12 (13.5-15')	5.11.12	0930	☐	☒	SOLID	2	X							X
WS-13 (13.5-15')		0950	☐	☒										
WS-14 (13.5-15')		1115	☐	☒										
WS-15 (13.5-15')		1130	☐	☒										
DUP-1		—	☐	☒										
WS-18 (15-19') ms/msd		1200	☐	☒										
WS-17 (15-19')		1230	☐	☒										
WS-16 (15-19')		1630	☐	☒										
WS-19 (15-19')		1300	☐	☒										
WS-20 (13-15')		1430	☐	☒		3								

CUSTODY TRANSFER	DATE	TIME
SAMPLER: Joe Spencer	5-14-12	0700
RECEIVED: Cathy Horton	5-15-12	1230
RELINQUISHED: Cathy Horton	5-15-12	1638
RECEIVED:		
RELINQUISHED:		
RECEIVED: Michael Noble	5/15/12	16:38

TURNAROUND (INDICATE IN CALENDAR DAYS): STANDARD
____ FAX ____ HARD COPY ____ E-MAIL
EXPEDITED SERVICE MAY BE SUBJECT TO SURCHARGE

COMMENTS: % SOLID PROVIDED IN JARS FOR ALL VPH SAMPLES. DO NOT USE PB labeled jars for % solid ANALYSIS, DEPTHS ARE DIFFERENT. NEED MCP PRES CERT.

CONDITIONS UPON RECEIPT: (CHECK ONE)
☒ COOLED ☐ AMBIENT 3.0 °C Upon Receipt at LAB

Premier Laboratory
61 Louisa Viens Drive
Dayville, CT 06241
Phone: (800) 334-0103
Fax: (860) 774-2689

Chain of Custody

WWW.PREMIERLABORATORY.COM

Lab WO#: E205960
Project Manager: TJCS

Copy of Report To	Billing Information	Project Information
CUSTOMER: WESTON & SAMPSON	BILL TO: GSD, NEW BEDFORD	Project: 478-480 UNION STREET
ADDRESS: 100 FOXBOROUGH BLVD	ADDRESS: 133 WILLIAM STREET, Rm 304	Project Location: NEW BEDFORD, MA
FOXBOROUGH, MA	NEW BEDFORD, MA 02740	Project Manager: SEAN HEALEY
ATTENTION: SEAN HEALEY	ATTENTION: CHERYL HEWLIN	IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:
E-MAIL: healeys@wseinc.com; pittsn@wseinc.com	TELEPHONE:	E-MAIL: healeys@wseinc.com
PHONE: 800 SAMPSON Fax:	PURCHASE ORDER # :	TELEPHONE: 800 SAMPSON
		FAX:

Sample Identification	Date Collected	Time Collected	Sample Type: COMPOSITE	Sample Type: GRAB	Sample Matrix: DW, WW, SW, Soil	# OF BOTTLES	Analysis: VPH	Analysis: EPH & Tri	Analysis: Pb							Preservatives: H2SO4	HCL	HNO3	NAOH	NONPRES	MeOH
WS-21 (13-15')	5/11/12	1500		X	.	3	X	X													X
WS-22 (13-15')		1600		X	.	3	X	X													X
WS-23 (13-15')		1530		X	.	3	X	X													X
WS-24 (13-15')		1400		X	.	3	X	X													X
WS-18 (0-5')		1200		X	.	1			X												
WS-16 (0-5')		1630		X	.	1			X												
WS-17 (0-5')		1230		X	.	1			X												
WS-19 (0-5')		1300		X	.	1			X												
DUP-2		—		X	.	1			X												
DUP-3		—		X	.	1		X													

CUSTODY TRANSFER		DATE	TIME
SAMPLER:	Joe Spencer	5-14-12	0700
RECEIVED:	[illegible]	5-15-12	1230
RELINQUISHED:	[illegible]	5-15-12	1638
RECEIVED:			
RELINQUISHED:			
RECEIVED:	Michael Noble	5/15/12	16:38

TURNAROUND (INDICATE IN CALENDAR DAYS): STANDARD
____ FAX ____ HARD COPY ____ E-MAIL
EXPEDITED SERVICE MAY BE SUBJECT TO SURCHARGE

COMMENTS: Please also Run TRIP BLANKS FOR VPH

CONDITIONS UPON RECEIPT: (CHECK ONE)
☒ COOLED ☐ AMBIENT 3.0 °C Upon Receipt at LAB

Premier
Laboratory, Inc

61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
Phone: 860-774-6814
Toll-Free: 800-334-0103

ANALYTICAL DATA REPORT

prepared for:

Weston and Sampson
5 Centennial Drive
Peabody, MA 01960
Jim Currier

Report Number: E205G37
Revision 2
Project: 478 - 480 Union Street

Received Date: 05/25/2012
Report Date: 06/12/2012
Revision Date: 06/15/2012

Premier Laboratory, Inc
Authorized Signature

Certified and Compliant with:
CT (PH-0465), EPA (CT00008), MA (M-CT008), ME (CT0050), NH (2020), NJ (CT007), NY (11549), PA (68-04413), RI (LAO00300), UCMR2 (CT00008), VT (VT11549)

101-000000338967

Premier
Laboratory, Inc

61 Louisa Viens Drive
Dayville, CT 06241
Fax: 860-774-2689
Phone: 860-774-6814
Toll-Free: 800-334-0103

MADEP Analytical Protocol Certification Form

Laboratory Name: Premier Laboratory, Inc — Project #: E205G37

Project Location: New Bedford, MA — RTN :

This Form provides certifications for the following data set:[list Laboratory Sample ID Number(s)]

1,2,3,4

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☐	MassDEP VPH CAM IV A ☑	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP EPH CAM IV B ☑	8151A Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII 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[1]
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all indentified performance standard non-conformances?	☑ Yes ☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No[1]
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☑ Yes ☐ No[1]
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No[1]
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[1]

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[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40 (2)(k) and WSC-07-350*

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

[1]*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: R. Warila — Position: Laboratory Director

Printed Name: Ronald Warila — Date: 6/15/2012

101-000000338967

Premier
Laboratory, Inc

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Report No: E205G37
Client: Weston and Sampson
Project: 478 - 480 Union Street

CASE NARRATIVE / METHOD CONFORMANCE SUMMARY

Premier Laboratory, Inc received four samples from Weston and Sampson on 05/25/2012. The samples were analyzed for the following list of analyses:

Subcontract - EPH
MADEP EPH
Volatiles by 8260B in GW/SW
8260B

Volatile Petroleum Hydrocarbon (VPH)
MADEP VPH

Non-Conformances:

Work Order:

None

Sample:

None

Analysis:

None

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205G37	Project:	478 - 480 Union Street
Sample No:	1	Sample Description:	WS-12
Preservative:			
		Dilution (Target):	1
Date Collected:	5/25/2012		
Date Received:	5/25/2012	Matrix:	Aqueous
Date Extracted:		Percent Moisture:	N/A
Date Analyzed:	6/7/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	1	ND	100	ug/L
C9-C12 Aliphatics**	1	ND	100	ug/L
C9-C10 Aromatics***	1	ND	100	ug/L

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	111%	70%-130%
2,5-dibromotoluene	113%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/L
Benzene	ND	5.0	ug/L
Toluene	ND	5.0	ug/L
Ethylbenzene	ND	5.0	ug/L
m,p-Xylenes	ND	5.0	ug/L
o-Xylene	ND	5.0	ug/L
Naphthalene	ND	5.0	ug/L

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205G37	Project:	478 - 480 Union Street
Sample No:	2	Sample Description:	WS-23
Preservative:			
		Dilution (Target):	1
Date Collected:	5/25/2012		
Date Received:	5/25/2012	Matrix:	Aqueous
Date Extracted:		Percent Moisture:	N/A
Date Analyzed:	6/7/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	1	ND	100	ug/L
C9-C12 Aliphatics**	1	410	100	ug/L
C9-C10 Aromatics***	1	780	100	ug/L

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	87%	70%-130%
2,5-dibromotoluene	96%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/L
Benzene	ND	5.0	ug/L
Toluene	ND	5.0	ug/L
Ethylbenzene	12	5.0	ug/L
m,p-Xylenes	33	5.0	ug/L
o-Xylene	ND	5.0	ug/L
Naphthalene	190	5.0	ug/L

Premier Laboratory, Inc
Analytical Data Report

Report No: E205G37
Sample No: 2
Sample Description: WS-23

Customer: Weston and Sampson
Project: 478 - 480 Union Street

Date Collected: 05/25/2012 15:30
Date Received: 05/25/2012 17:47
Date Analyzed: 06/05/2012 00:00 By: SUB
Analytical Method: MADEP EPH

Matrix: Aqueous
Percent Moisture: N/A
Dilution Factor: 1
Lab Data File:

CAS No.	Parameter	Result	DL	Units
	Subcontract EPH	Attached		ug/L

Premier Laboratory, Inc
Analytical Data Report

VOLATILE PETROLEUM HYDROCARBON (VPH)

Laboratory:	Premier Laboratory, Inc	Client:	Weston and Sampson
		Location:	New Bedford, MA
Report No:	E205G37	Project:	478 - 480 Union Street
Sample No:	3	Sample Description:	Dup-1
Preservative:			
		Dilution (Target):	1
Date Collected:	5/25/2012		
Date Received:	5/25/2012	Matrix:	Aqueous
Date Extracted:		Percent Moisture:	N/A
Date Analyzed:	6/7/2012	Method:	MADEP VPH
		Ext Method:	5030B

(VPH) RANGE RESULTS

Parameter	Parameter Dilution	Results	QL	Units
C5-C8 Aliphatics*	1	ND	100	ug/L
C9-C12 Aliphatics**	1	460	100	ug/L
C9-C10 Aromatics***	1	840	100	ug/L

* Excludes MTBE, Benzene, and Toluene
** Excludes Ethylbenzene, Xylenes
*** Excludes Naphthalene

SURROGATE RECOVERIES

Surrogate	% Recovery	Acceptance Range
2,5-dibromotoluene #2	84%	70%-130%
2,5-dibromotoluene	94%	70%-130%

TARGETED VPH ANALYTES

Parameter	Results	QL	Units
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/L
Benzene	ND	5.0	ug/L
Toluene	ND	5.0	ug/L
Ethylbenzene	12	5.0	ug/L
m,p-Xylenes	34	5.0	ug/L
o-Xylene	ND	5.0	ug/L
Naphthalene	200	5.0	ug/L

Premier Laboratory, Inc
Analytical Data Report

Report No: E205G37
Sample No: 3
Sample Description: Dup-1

Customer: Weston and Sampson
Project: 478 - 480 Union Street

Date Collected: 05/25/2012 00:00
Date Received: 05/25/2012 17:47
Date Analyzed: 06/05/2012 00:00 By: SUB
Analytical Method: MADEP EPH

Matrix: Aqueous
Percent Moisture: N/A
Dilution Factor: 1
Lab Data File:

CAS No.	Parameter	Result	DL	Units
	Subcontract EPH	Attached		ug/L

Premier Laboratory, Inc
Analytical Data Report

Report No: E205G37
Sample No: 4
Sample Description: Trip Blank

Customer: Weston and Sampson
Project: 478 - 480 Union Street

Date Collected: 05/25/2012 00:00
Date Received: 05/25/2012 17:47
Date Analyzed: 05/31/2012 11:49 By: CT
Analytical Method: 8260B

Matrix: Aqueous
Percent Moisture: N/A
Dilution Factor: 1
Lab Data File: Q26033.D
QC Batch#: 95642

CAS No.	Parameter	Result	DL	Units
67-64-1	Acetone	ND	20	ug/L
107-13-1	Acrylonitrile	ND	25	ug/L
71-43-2	Benzene	ND	5.0	ug/L
108-86-1	Bromobenzene	ND	5.0	ug/L
74-97-5	Bromochloromethane	ND	5.0	ug/L
75-27-4	Bromodichloromethane	ND	5.0	ug/L
75-25-2	Bromoform	ND	5.0	ug/L
74-83-9	Bromomethane	ND	5.0	ug/L
78-93-3	2-Butanone (MEK)	ND	10	ug/L
104-51-8	n-Butylbenzene	ND	5.0	ug/L
135-98-8	sec-Butylbenzene	ND	5.0	ug/L
98-06-6	tert-Butylbenzene	ND	5.0	ug/L
75-15-0	Carbon disulfide	ND	5.0	ug/L
56-23-5	Carbon tetrachloride	ND	5.0	ug/L
108-90-7	Chlorobenzene	ND	5.0	ug/L
75-00-3	Chloroethane	ND	5.0	ug/L
67-66-3	Chloroform	ND	5.0	ug/L
74-87-3	Chloromethane	ND	5.0	ug/L
95-49-8	2-Chlorotoluene	ND	5.0	ug/L
106-43-4	4-Chlorotoluene	ND	5.0	ug/L
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	ug/L
124-48-1	Dibromochloromethane	ND	5.0	ug/L
106-93-4	1,2-Dibromoethane (EDB)	ND	5.0	ug/L
74-95-3	Dibromomethane	ND	5.0	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.0	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.0	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.0	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/L
75-34-3	1,1-Dichloroethane	ND	5.0	ug/L
107-06-2	1,2-Dichloroethane	ND	5.0	ug/L
75-35-4	1,1-Dichloroethene	ND	5.0	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.0	ug/L
142-28-9	1,3-Dichloropropane	ND	5.0	ug/L
594-20-7	2,2-Dichloropropane	ND	5.0	ug/L
563-58-6	1,1-Dichloropropene	ND	5.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/L
60-29-7	Diethyl ether	ND	10	ug/L

Premier Laboratory, Inc
Analytical Data Report

Report No: E205G37
Sample No: 4
Sample Description: Trip Blank

Customer: Weston and Sampson
Project: 478 - 480 Union Street

Date Collected: 05/25/2012 00:00
Date Received: 05/25/2012 17:47
Date Analyzed: 05/31/2012 11:49 By: CT
Analytical Method: 8260B

Matrix: Aqueous
Percent Moisture: N/A
Dilution Factor: 1
Lab Data File: Q26033.D
QC Batch#: 95642

CAS No.	Parameter	Result	DL	Units
123-91-1	1,4-Dioxane	ND	50	ug/L
100-41-4	Ethylbenzene	ND	5.0	ug/L
87-68-3	Hexachlorobutadiene	ND	5.0	ug/L
591-78-6	2-Hexanone	ND	10	ug/L
98-82-8	Isopropylbenzene	ND	5.0	ug/L
99-87-6	4-Isopropyltoluene	ND	5.0	ug/L
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	ug/L
75-09-2	Methylene chloride	ND	5.0	ug/L
91-20-3	Naphthalene	ND	5.0	ug/L
103-65-1	n-Propylbenzene	ND	5.0	ug/L
100-42-5	Styrene	ND	5.0	ug/L
109-99-9	Tetrahydrofuran	ND	5.0	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	ug/L
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
127-18-4	Tetrachloroethene (PCE)	ND	5.0	ug/L
108-88-3	Toluene	ND	5.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.0	ug/L
79-01-6	Trichloroethene (TCE)	ND	5.0	ug/L
75-69-4	Trichlorofluoromethane	ND	5.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/L
75-01-4	Vinyl chloride	ND	5.0	ug/L
95-47-6	o-Xylene	ND	5.0	ug/L
108-38-3	m,p-Xylenes	ND	10	ug/L

Sample QC

Surrogate	Recovery	QC Limits
Bromofluorobenzene	99%	90%-106%
1,2-Dichloroethane-d4	96%	88%-107%
Toluene-d8	100%	95%-107%

FORM 2
Water 8260B Surrogate Recovery

Lab Name: Premier Laboratory, Inc

Project No.: E205G37 Project: 478 - 480 Union Street

Batch No.: 95642 Location: New Bedford, MA

	Lab Sample No.	S1 %Rec #	S2 %Rec #	S3 %Rec #	S4 %Rec #	S5 %Rec #	S6 %Rec #	Tot Out
1	E205G37-4	96	99	100				0
2	VBLK0531	96	101	100				0
3	VLCS0531	94	106	99				0

QC Limits

S1 = 1,2-Dichloroethane-d4 (88-107)
S2 = Bromofluorobenzene (90-106)
S3 = Toluene-d8 (95-107)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
Water 8260B Lab Control Sample

Lab Name: Premier Laboratory, Inc Date Analyzed 5/31/2012

Project No.: E205G37 Project: 478 - 480 Union Street

Sample No.: VLCS0531 Location: New Bedford, MA

Lab File ID: Q26029.D Batch No.: 95642

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	QC Limits Rec
1,1,1,2-Tetrachloroethane	50.00	54.40	109	70-130
1,1,1-Trichloroethane	50.00	56.65	113	70-130
1,1,2,2-Tetrachloroethane	50.00	54.63	109	70-130
1,1,2-Trichloroethane	50.00	53.09	106	70-130
1,1-Dichloroethane	50.00	49.91	100	70-130
1,1-Dichloroethene	50.00	52.83	106	70-130
1,1-Dichloropropene	50.00	53.29	106	70-130
1,2,3-Trichlorobenzene	50.00	50.73	101	70-130
1,2,4-Trichlorobenzene	50.00	50.85	102	70-130
1,2,4-Trimethylbenzene	50.00	51.69	103	70-130
1,2-Dibromoethane (EDB)	50.00	46.91	94	70-130
1,2-Dichlorobenzene	50.00	48.23	96	70-130
1,2-Dichloroethane	50.00	48.72	97	70-130
1,2-Dichloropropane	50.00	49.30	99	70-130
1,3,5-Trimethylbenzene	50.00	53.07	106	70-130
1,3-Dichlorobenzene	50.00	47.38	95	70-130
1,3-Dichloropropane	50.00	48.66	97	70-130
1,4-Dichlorobenzene	50.00	51.63	103	70-130
1,4-Dioxane	50.00	41.51	83	70-130
2,2-Dichloropropane	50.00	53.80	108	70-130
2-Butanone (MEK)	50.00	47.63	95	70-130
4-Chlorotoluene	50.00	45.90	92	70-130
4-Isopropyltoluene	50.00	49.82	100	70-130
4-Methyl-2-pentanone (MIBK	50.00	44.80	90	70-130
Acetone	50.00	42.87	86	70-130
Benzene	50.00	53.30	106	70-130
Bromobenzene	50.00	53.21	106	70-130
Bromochloromethane	50.00	54.27	108	70-130
Bromodichloromethane	50.00	52.90	106	70-130
Bromoform	50.00	52.41	105	70-130
Bromomethane	50.00	52.72	105	70-130
Carbon disulfide	50.00	62.81	126	70-130
Carbon tetrachloride	50.00	57.57	115	70-130
Chlorobenzene	50.00	48.33	97	70-130
Chloroform	50.00	52.47	105	70-130
Chloromethane	50.00	45.39	91	70-130
cis-1,2-Dichloroethene	50.00	51.86	104	70-130
cis-1,3-Dichloropropene	50.00	55.39	111	70-130
Di-isopropyl ether (DIPE)	50.00	49.45	99	70-130
Dibromochloromethane	50.00	53.21	106	70-130
Dibromomethane	50.00	53.32	107	70-130
Dichlorodifluoromethane	50.00	48.65	97	70-130

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

FORM 3
Water 8260B Lab Control Sample

Lab Name: Premier Laboratory, Inc Date Analyzed 5/31/2012

Project No.: E205G37 Project: 478 - 480 Union Street

Sample No.: VLCS0531 Location: New Bedford, MA

Lab File ID: Q26029.D Batch No.: 95642

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	QC Limits Rec
Ethyl tertiary-butyl ether	50.00	49.73	99	70-130
Ethylbenzene	50.00	51.28	102	70-130
Hexachlorobutadiene	50.00	56.28	112	70-130
Isopropylbenzene	50.00	47.54	95	70-130
m,p-Xylenes	100.0	104.8	105	70-130
Methyl tert-butyl ether (M	50.00	53.33	107	70-130
Methylene chloride	50.00	52.13	104	70-130
n-Butylbenzene	50.00	54.89	110	70-130
n-Propylbenzene	50.00	46.47	93	70-130
Naphthalene	50.00	50.36	101	70-130
o-Xylene	50.00	47.18	94	70-130
sec-Butylbenzene	50.00	49.53	99	70-130
Styrene	50.00	54.24	108	70-130
tert-Butylbenzene	50.00	47.42	95	70-130
Tertiary-amyl methyl ether	50.00	48.46	97	70-130
Tetrachloroethene (PCE)	50.00	57.22	114	70-130
Toluene	50.00	52.21	104	70-130
trans-1,2-Dichloroethene	50.00	54.82	110	70-130
trans-1,3-Dichloropropene	50.00	53.13	106	70-130
Trichloroethene (TCE)	50.00	54.32	109	70-130
Trichlorofluoromethane	50.00	55.86	112	70-130
Vinyl chloride	50.00	53.04	106	70-130

FORM 3
Water 8260B Lab Control Sample Duplicate

Lab Name: Premier Laboratory, Inc Date Analyzed 5/31/2012

Project No.: E205G37 Project: 478 - 480 Union Street

Sample No.: VLCS0531 Location: New Bedford, MA

Lab File ID: Q26030.D Batch No.: 95642

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	RPD #	QC Limits RPD	QC Limits Rec
1,1,1,2-Tetrachloroethane	50.00	52.63	105	3.74	25	70-130
1,1,1-Trichloroethane	50.00	54.70	109	3.60	25	70-130
1,1,2,2-Tetrachloroethane	50.00	54.07	108	0.92	25	70-130
1,1,2-Trichloroethane	50.00	50.98	102	3.85	25	70-130
1,1-Dichloroethane	50.00	48.44	97	3.04	25	70-130
1,1-Dichloroethene	50.00	50.60	101	4.83	25	70-130
1,1-Dichloropropene	50.00	51.52	103	2.87	25	70-130
1,2,3-Trichlorobenzene	50.00	50.42	101	0	25	70-130
1,2,4-Trichlorobenzene	50.00	49.84	100	1.98	25	70-130
1,2,4-Trimethylbenzene	50.00	50.27	100	2.96	25	70-130
1,2-Dibromoethane (EDB)	50.00	46.21	92	2.15	25	70-130
1,2-Dichlorobenzene	50.00	47.30	95	1.05	25	70-130
1,2-Dichloroethane	50.00	47.40	95	2.08	25	70-130
1,2-Dichloropropane	50.00	47.93	96	3.08	25	70-130
1,3,5-Trimethylbenzene	50.00	51.25	102	3.85	25	70-130
1,3-Dichlorobenzene	50.00	46.34	93	2.13	25	70-130
1,3-Dichloropropane	50.00	47.67	95	2.08	25	70-130
1,4-Dichlorobenzene	50.00	50.85	102	0.98	25	70-130
1,4-Dioxane	50.00	42.02	84	1.20	25	70-130
2,2-Dichloropropane	50.00	51.36	103	4.74	25	70-130
2-Butanone (MEK)	50.00	46.41	93	2.13	25	70-130
4-Chlorotoluene	50.00	44.78	90	2.20	25	70-130
4-Isopropyltoluene	50.00	48.65	97	3.04	25	70-130
4-Methyl-2-pentanone (MIBK	50.00	44.08	88	2.25	25	70-130
Acetone	50.00	40.91	82	4.76	25	70-130
Benzene	50.00	51.05	102	3.85	25	70-130
Bromobenzene	50.00	52.36	105	0.95	25	70-130
Bromochloromethane	50.00	52.03	104	3.77	25	70-130
Bromodichloromethane	50.00	51.46	103	2.87	25	70-130
Bromoform	50.00	51.72	103	1.92	25	70-130
Bromomethane	50.00	51.89	104	0.96	25	70-130
Carbon disulfide	50.00	61.07	122	3.22	25	70-130
Carbon tetrachloride	50.00	56.83	114	0.87	25	70-130
Chlorobenzene	50.00	46.10	92	5.29	25	70-130
Chloroform	50.00	51.06	102	2.90	25	70-130
Chloromethane	50.00	43.80	88	3.35	25	70-130
cis-1,2-Dichloroethene	50.00	50.57	101	2.93	25	70-130
cis-1,3-Dichloropropene	50.00	53.97	108	2.74	25	70-130
Di-isopropyl ether (DIPE)	50.00	48.55	97	2.04	25	70-130
Dibromochloromethane	50.00	51.83	104	1.90	25	70-130
Dibromomethane	50.00	52.01	104	2.84	25	70-130
Dichlorodifluoromethane	50.00	47.24	94	3.14	25	70-130

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

FORM 3
Water 8260B Lab Control Sample Duplicate

Lab Name: Premier Laboratory, Inc Date Analyzed 5/31/2012

Project No.: E205G37 Project: 478 - 480 Union Street

Sample No.: VLCS0531 Location: New Bedford, MA

Lab File ID: Q26030.D Batch No.: 95642

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	RPD #	QC Limits RPD	QC Limits Rec
Ethyl tertiary-butyl ether	50.00	48.79	98	1.02	25	70-130
Ethylbenzene	50.00	49.49	99	2.98	25	70-130
Hexachlorobutadiene	50.00	55.44	111	0.90	25	70-130
Isopropylbenzene	50.00	46.39	93	2.13	25	70-130
m,p-Xylenes	100.0	101.4	101	3.88	25	70-130
Methyl tert-butyl ether (M	50.00	52.98	106	0.94	25	70-130
Methylene chloride	50.00	51.06	102	1.94	25	70-130
n-Butylbenzene	50.00	53.93	108	1.83	25	70-130
n-Propylbenzene	50.00	45.40	91	2.17	25	70-130
Naphthalene	50.00	50.08	100	1.0	25	70-130
o-Xylene	50.00	46.04	92	2.15	25	70-130
sec-Butylbenzene	50.00	48.37	97	2.04	25	70-130
Styrene	50.00	52.78	106	1.87	25	70-130
tert-Butylbenzene	50.00	46.82	94	1.06	25	70-130
Tertiary-amyl methyl ether	50.00	48.06	96	1.04	25	70-130
Tetrachloroethene (PCE)	50.00	54.97	110	3.57	25	70-130
Toluene	50.00	50.87	102	1.94	25	70-130
trans-1,2-Dichloroethene	50.00	52.09	104	5.61	25	70-130
trans-1,3-Dichloropropene	50.00	51.65	103	2.87	25	70-130
Trichloroethene (TCE)	50.00	52.97	106	2.79	25	70-130
Trichlorofluoromethane	50.00	55.29	110	1.80	25	70-130
Vinyl chloride	50.00	51.55	103	2.87	25	70-130

FORM 4
8260B Method Blank Summary

Project No.: E205G37 Project: 478 - 480 Union Street

Lab File ID: Q26032.D Lab Sample ID: VBLK0531

Matrix: Water Date Analyzed: 5/31/2012

Instrument ID: GCMS 14

Batch No.: 95642 Time Analyzed: 1126

This Method Blank Applies To The Following Samples, MS and MSD:

	Lab Sample No.	Client Sample ID	Lab File ID	Date Analyzed
1	E205G37-4	Trip Blank	Q26033.D	5/31/2012
2	VLCS0531	VLCS0531	Q26029.D	5/31/2012
3	VLCSD0531	VLCSD0531	Q26030.D	5/31/2012

FORM 2
Water MADEP VPH Surrogate Recovery

Lab Name: Premier Laboratory, Inc

Project No.: E205G37 Project: 478 - 480 Union Street

Batch No.: 95893 Location: New Bedford, MA

	Lab Sample No.	S1 %Rec #	S2 %Rec #	S3 %Rec #	S4 %Rec #	S5 %Rec #	S6 %Rec #	Tot Out
1	E205G37-1	115	111					0
2	E205G37-2A	96	87					0
3	E205G37-3A	94	84					0
4	VBLK0607	105	104					0
5	VLCS0607	110	112					0

QC Limits

S1 = 2,5-dibromotoluene (70-130)
S2 = 2,5-dibromotoluene #2 #2 (70-130)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
Water MADEP VPH Lab Control Sample

Lab Name: Premier Laboratory, Inc Date Analyzed 6/7/2012

Project No.: E205G37 Project: 478 - 480 Union Street

Sample No.: VLCS0607 Location: New Bedford, MA

Lab File ID: 2060702.D Batch No.: 95893

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	QC Limits Rec
1,2,4-Trimethylbenzene	20.00	21.22	106	70-130
2-Methylpentane	20.00	21.54	108	70-130
Benzene	20.00	20.89	104	70-130
C5-C8 Aliphatics	60.00	63.08	105	70-130
C9-C10 Aromatics	20.00	22.27	111	70-130
C9-C12 Aliphatics	60.00	64.24	107	70-130
Decane	20.00	20.84	104	70-130
Ethylbenzene	20.00	20.21	101	70-130
m,p-Xylenes	40.00	40.61	102	70-130
Methyl tert-butyl ether (M	20.00	21.06	105	70-130
n-Butylcyclohexane	20.00	21.88	109	70-130
Naphthalene	20.00	24.15	121	70-130
Nonane	20.00	21.53	108	70-130
o-Xylene	20.00	19.56	98	70-130
Toluene	20.00	20.19	101	70-130
Benzene #2	20.00	20.09	100	70-130
Ethylbenzene #2	20.00	21.08	105	70-130
m,p-Xylenes #2	40.00	43.39	108	70-130
Methyl tert-butyl ether (M	20.00	19.81	99	70-130
Naphthalene #2	20.00	25.47	127	70-130
o-Xylene #2	20.00	20.75	104	70-130
Toluene #2	20.00	20.59	103	70-130

FORM 3
Water MADEP VPH Lab Control Sample Duplicate

Lab Name: Premier Laboratory, Inc Date Analyzed 6/7/2012

Project No.: E205G37 Project: 478 - 480 Union Street

Sample No.: VLCS0607 Location: New Bedford, MA

Lab File ID: 2060703.D Batch No.: 95893

Compound	Spike Added (ug/L)	Sample Concentration (ug/L)	% Rec #	RPD #	QC Limits RPD	QC Limits Rec
1,2,4-Trimethylbenzene	20.00	20.70	103	2.87	25	70-130
2-Methylpentane	20.00	20.66	103	4.74	25	70-130
Benzene	20.00	20.22	101	2.93	25	70-130
C5-C8 Aliphatics	60.00	62.46	104	0.96	25	70-130
C9-C10 Aromatics	20.00	21.65	108	2.74	25	70-130
C9-C12 Aliphatics	60.00	62.35	104	2.84	25	70-130
Decane	20.00	20.25	101	2.93	25	70-130
Ethylbenzene	20.00	19.69	98	3.02	25	70-130
m,p-Xylenes	40.00	39.56	99	2.98	25	70-130
Methyl tert-butyl ether (M	20.00	20.69	103	1.92	25	70-130
n-Butylcyclohexane	20.00	21.18	106	2.79	25	70-130
Naphthalene	20.00	23.24	116	4.22	25	70-130
Nonane	20.00	20.92	105	2.82	25	70-130
o-Xylene	20.00	19.09	95	3.11	25	70-130
Toluene	20.00	19.82	99	2.00	25	70-130
Benzene #2	20.00	19.60	98	2.02	25	70-130
Ethylbenzene #2	20.00	20.46	102	2.90	25	70-130
m,p-Xylenes #2	40.00	42.18	105	2.82	25	70-130
Methyl tert-butyl ether (M	20.00	19.15	96	3.08	25	70-130
Naphthalene #2	20.00	24.34	122	4.02	25	70-130
o-Xylene #2	20.00	20.25	101	2.93	25	70-130
Toluene #2	20.00	19.95	100	2.96	25	70-130

FORM 4
MADEP VPH Method Blank Summary

Project No.: E205G37 Project: 478 - 480 Union Street

Lab File ID: 2060708.D Lab Sample ID: VBLK0607

Matrix: Water Date Analyzed: 6/7/2012

Instrument ID: GC2

Batch No.: 95893 Time Analyzed: 1305

This Method Blank Applies To The Following Samples, MS and MSD:

	Lab Sample No.	Client Sample ID	Lab File ID	Date Analyzed
1	E205G37-1	WS-12	2060709.D	6/7/2012
2	E205G37-2A	WS-23	2060711.D	6/7/2012
3	E205G37-3A	Dup-1	2060713.D	6/7/2012
4	E205960-6B	WS-18 (15-19')	2060721.D	6/7/2012
5	E205960-7B	WS-18 (15-19')	2060722.D	6/7/2012
6	VLCS0607	VLCS0607	2060702.D	6/7/2012
7	VLCSD0607	VLCSD0607	2060703.D	6/7/2012

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

June 7, 2012

Brad Gauthier
Premier Laboratory
61 Louisa Viens Drive
Dayville, CT 06241

Project Location: New Bedford, MA
Client Job Number:
Project Number: E205G37
Laboratory Work Order Number: 12E1143

Enclosed are results of analyses for samples received by the laboratory on May 31, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Premier Laboratory
61 Louisa Viens Drive
Dayville, CT 06241
ATTN: Brad Gauthier

REPORT DATE: 6/7/2012

PURCHASE ORDER NUMBER: E205G37

PROJECT NUMBER: E205G37

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E1143

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: New Bedford, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
E205G37-2B (WS-23)	12E1143-01	Water		MADEP-EPH-04-1.1	
				SW-846 8270D	
E205G37-3B (DUP-1)	12E1143-02	Water		MADEP-EPH-04-1.1	
				SW-846 8270D	

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CASE NARRATIVE SUMMARY

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

For method 8270, only a select list of PAH compounds were analyzed and reported in order to achieve lower detection limits than possible with the EPH analysis.

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C 11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: New Bedford, MA
Sample Description:
Work Order: 12E1143

Date Received: 5/31/2012

Field Sample #: E205G37-2B (WS-23)
Sampled: 5/25/2012 15:30

Sample ID: 12E1143-01

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 17:42	CJM
Benzo(a)pyrene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 17:42	CJM
Benzo(b)fluoranthene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 17:42	CJM
Benzo(g,h,i)perylene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 17:42	CJM
Benzo(k)fluoranthene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 17:42	CJM
Chrysene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 17:42	CJM
Dibenz(a,h)anthracene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 17:42	CJM
Indeno(1,2,3-cd)pyrene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 17:42	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
o-Terphenyl (OTP)	87.2	30-130		6/5/12 17:42

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Project Location: New Bedford, MA | Sample Description: | Work Order: 12E1143

Date Received: 5/31/2012

Field Sample #: E205G37-2B (WS-23) | Sampled: 5/25/2012 15:30

Sample ID: 12E1143-01

Sample Matrix: Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	260	100	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
C19-C36 Aliphatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Unadjusted C11-C22 Aromatics	1000	100	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
C11-C22 Aromatics	730	100	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Acenaphthene	11	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Acenaphthylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Chrysene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Fluorene	8.7	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
2-Methylnaphthalene	130	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Naphthalene	120	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Phenanthrene	3.7	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS
Pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	59.7	40-140		6/4/12 21:01
o-Terphenyl (OTP)	87.6	40-140		6/4/12 21:01
2-Bromonaphthalene	89.5	40-140		6/4/12 21:01
2-Fluorobiphenyl	116	40-140		6/4/12 21:01

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Project Location: New Bedford, MA | Sample Description: | Work Order: 12E1143

Date Received: 5/31/2012

Field Sample #: E205G37-3B (DUP-1) | Sampled: 5/25/2012 00:00

Sample ID: 12E1143-02

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 18:14	CJM
Benzo(a)pyrene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 18:14	CJM
Benzo(b)fluoranthene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 18:14	CJM
Benzo(g,h,i)perylene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 18:14	CJM
Benzo(k)fluoranthene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 18:14	CJM
Chrysene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 18:14	CJM
Dibenz(a,h)anthracene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 18:14	CJM
Indeno(1,2,3-cd)pyrene	ND	0.025	µg/L	1		SW-846 8270D	6/1/12	6/5/12 18:14	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
o-Terphenyl (OTP)	90.0	30-130		6/5/12 18:14

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

Project Location: New Bedford, MA | Sample Description: | Work Order: 12E1143

Date Received: 5/31/2012

Field Sample #: E205G37-3B (DUP-1) | Sampled: 5/25/2012 00:00

Sample ID: 12E1143-02

Sample Matrix: Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	250	100	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
C19-C36 Aliphatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Unadjusted C11-C22 Aromatics	1100	100	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
C11-C22 Aromatics	770	100	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Acenaphthene	13	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Acenaphthylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Chrysene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Fluorene	9.2	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
2-Methylnaphthalene	140	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Naphthalene	130	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Phenanthrene	4.0	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS
Pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	6/1/12	6/4/12 21:22	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	64.2	40-140		6/4/12 21:22
o-Terphenyl (OTP)	88.6	40-140		6/4/12 21:22
2-Bromonaphthalene	84.0	40-140		6/4/12 21:22
2-Fluorobiphenyl	108	40-140		6/4/12 21:22

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Sample Extraction Data

Prep Method: SW-846 3510C-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12E1143-01 [E205G37-2B (WS-23)]	B052577	1000	2.00	06/01/12
12E1143-02 [E205G37-3B (DUP-1)]	B052577	1000	2.00	06/01/12

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12E1143-01 [E205G37-2B (WS-23)]	B052771	1000	2.00	06/01/12
12E1143-02 [E205G37-3B (DUP-1)]	B052771	1000	2.00	06/01/12

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052771 - SW-846 3510C										
Blank (B052771-BLK1)				Prepared: 06/01/12 Analyzed: 06/05/12						
Benzo(a)anthracene	ND	0.025	µg/L							
Benzo(a)pyrene	ND	0.025	µg/L							
Benzo(b)fluoranthene	ND	0.025	µg/L							
Benzo(g,h,i)perylene	ND	0.025	µg/L							
Benzo(k)fluoranthene	ND	0.025	µg/L							
Chrysene	ND	0.025	µg/L							
Dibenz(a,h)anthracene	ND	0.025	µg/L							
Indeno(1,2,3-cd)pyrene	ND	0.025	µg/L							
Surrogate: o-Terphenyl (OTP)	*88.2*		µg/L	100		88.2	30-130			
LCS (B052771-BS1)				Prepared: 06/01/12 Analyzed: 06/05/12						
Benzo(a)anthracene	109	0.62	µg/L	100		109	40-140			
Benzo(a)pyrene	107	0.62	µg/L	100		107	40-140			
Benzo(b)fluoranthene	106	0.62	µg/L	100		106	40-140			
Benzo(g,h,i)perylene	116	0.62	µg/L	100		116	40-140			
Benzo(k)fluoranthene	107	0.62	µg/L	100		107	40-140			
Chrysene	112	0.62	µg/L	100		112	40-140			
Dibenz(a,h)anthracene	114	0.62	µg/L	100		114	40-140			
Indeno(1,2,3-cd)pyrene	111	0.62	µg/L	100		111	40-140			
Surrogate: o-Terphenyl (OTP)	*89.5*		µg/L	100		89.5	30-130			
LCS Dup (B052771-BSD1)				Prepared: 06/01/12 Analyzed: 06/06/12						
Benzo(a)anthracene	108	0.62	µg/L	100		108	40-140	0.692	20	
Benzo(a)pyrene	107	0.62	µg/L	100		107	40-140	0.421	20	
Benzo(b)fluoranthene	106	0.62	µg/L	100		106	40-140	0.331	20	
Benzo(g,h,i)perylene	118	0.62	µg/L	100		118	40-140	1.59	20	
Benzo(k)fluoranthene	106	0.62	µg/L	100		106	40-140	0.748	20	
Chrysene	112	0.62	µg/L	100		112	40-140	0.268	20	
Dibenz(a,h)anthracene	116	0.62	µg/L	100		116	40-140	1.61	20	
Indeno(1,2,3-cd)pyrene	112	0.62	µg/L	100		112	40-140	1.57	20	
Surrogate: o-Terphenyl (OTP)	*97.0*		µg/L	100		97.0	30-130			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052577 - SW-846 3510C										
Blank (B052577-BLK1)				Prepared: 06/01/12 Analyzed: 06/04/12						
C9-C18 Aliphatics	ND	100	µg/L							
C19-C36 Aliphatics	ND	100	µg/L							
Unadjusted C11-C22 Aromatics	ND	100	µg/L							
C11-C22 Aromatics	ND	100	µg/L							
Acenaphthene	ND	2.0	µg/L							
Acenaphthylene	ND	2.0	µg/L							
Anthracene	ND	2.0	µg/L							
Benzo(a)anthracene	ND	2.0	µg/L							
Benzo(a)pyrene	ND	2.0	µg/L							
Benzo(b)fluoranthene	ND	2.0	µg/L							
Benzo(g,h,i)perylene	ND	2.0	µg/L							
Benzo(k)fluoranthene	ND	2.0	µg/L							
Chrysene	ND	2.0	µg/L							
Dibenz(a,h)anthracene	ND	2.0	µg/L							
Fluoranthene	ND	2.0	µg/L							
Fluorene	ND	2.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L							
2-Methylnaphthalene	ND	2.0	µg/L							
Naphthalene	ND	2.0	µg/L							
Phenanthrene	ND	2.0	µg/L							
Pyrene	ND	2.0	µg/L							
Surrogate: Chlorooctadecane (COD)	*65.2*		µg/L	99.8		65.3	40-140			
Surrogate: o-Terphenyl (OTP)	*82.9*		µg/L	100		82.9	40-140			
Surrogate: 2-Bromonaphthalene	*95.1*		µg/L	100		95.1	40-140			
Surrogate: 2-Fluorobiphenyl	*98.8*		µg/L	100		98.8	40-140			
LCS (B052577-BS1)				Prepared: 06/01/12 Analyzed: 06/04/12						
Acenaphthene	85.7	2.0	µg/L	100		85.7	40-140			
Acenaphthylene	79.3	2.0	µg/L	100		79.3	40-140			
Anthracene	87.2	2.0	µg/L	100		87.2	40-140			
Benzo(a)anthracene	96.2	2.0	µg/L	100		96.2	40-140			
Benzo(a)pyrene	82.7	2.0	µg/L	100		82.7	40-140			
Benzo(b)fluoranthene	87.5	2.0	µg/L	100		87.5	40-140			
Benzo(g,h,i)perylene	88.8	2.0	µg/L	100		88.8	40-140			
Benzo(k)fluoranthene	88.5	2.0	µg/L	100		88.5	40-140			
Chrysene	84.2	2.0	µg/L	100		84.2	40-140			
Dibenz(a,h)anthracene	93.3	2.0	µg/L	100		93.3	40-140			
Fluoranthene	91.4	2.0	µg/L	100		91.4	40-140			
Fluorene	85.9	2.0	µg/L	100		85.9	40-140			
Indeno(1,2,3-cd)pyrene	84.5	2.0	µg/L	100		84.5	40-140			
2-Methylnaphthalene	69.2	2.0	µg/L	100		69.2	40-140			
Naphthalene	60.0	2.0	µg/L	100		60.0	40-140			
Phenanthrene	85.5	2.0	µg/L	100		85.5	40-140			
Pyrene	87.7	2.0	µg/L	100		87.7	40-140			
n-Decane	51.1	2.0	µg/L	100		51.1	40-140			
n-Docosane	103	2.0	µg/L	100		103	40-140			
n-Dodecane	72.8	2.0	µg/L	100		72.8	40-140			
n-Eicosane	101	2.0	µg/L	100		101	40-140			
n-Hexacosane	98.8	2.0	µg/L	100		98.8	40-140			
n-Hexadecane	102	2.0	µg/L	100		102	40-140			
n-Hexatriacontane	103	2.0	µg/L	100		103	40-140			
n-Nonadecane	98.4	2.0	µg/L	100		98.4	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052577 - SW-846 3510C										
LCS (B052577-BS1)				Prepared: 06/01/12 Analyzed: 06/04/12						
n-Nonane	36.7	2.0	µg/L	100		36.7	30-140			
n-Octacosane	97.5	2.0	µg/L	100		97.5	40-140			
n-Octadecane	105	2.0	µg/L	100		105	40-140			
n-Tetracosane	98.7	2.0	µg/L	100		98.7	40-140			
n-Tetradecane	89.5	2.0	µg/L	100		89.5	40-140			
n-Triacontane	100	2.0	µg/L	100		100	40-140			
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	*65.6*		µg/L	99.8		65.7	40-140			
Surrogate: o-Terphenyl (OTP)	*89.8*		µg/L	100		89.8	40-140			
Surrogate: 2-Bromonaphthalene	*91.3*		µg/L	100		91.3	40-140			
Surrogate: 2-Fluorobiphenyl	*103*		µg/L	100		103	40-140			
LCS Dup (B052577-BSD1)				Prepared: 06/01/12 Analyzed: 06/04/12						
Acenaphthene	80.2	2.0	µg/L	100		80.2	40-140	6.60	25	
Acenaphthylene	73.8	2.0	µg/L	100		73.8	40-140	7.08	25	
Anthracene	81.2	2.0	µg/L	100		81.2	40-140	7.11	25	
Benzo(a)anthracene	89.3	2.0	µg/L	100		89.3	40-140	7.46	25	
Benzo(a)pyrene	76.7	2.0	µg/L	100		76.7	40-140	7.53	25	
Benzo(b)fluoranthene	80.9	2.0	µg/L	100		80.9	40-140	7.81	25	
Benzo(g,h,i)perylene	81.9	2.0	µg/L	100		81.9	40-140	7.99	25	
Benzo(k)fluoranthene	82.3	2.0	µg/L	100		82.3	40-140	7.28	25	
Chrysene	78.4	2.0	µg/L	100		78.4	40-140	7.13	25	
Dibenz(a,h)anthracene	86.0	2.0	µg/L	100		86.0	40-140	8.07	25	
Fluoranthene	85.1	2.0	µg/L	100		85.1	40-140	7.04	25	
Fluorene	79.6	2.0	µg/L	100		79.6	40-140	7.57	25	
Indeno(1,2,3-cd)pyrene	78.3	2.0	µg/L	100		78.3	40-140	7.64	25	
2-Methylnaphthalene	64.0	2.0	µg/L	100		64.0	40-140	7.79	25	
Naphthalene	55.2	2.0	µg/L	100		55.2	40-140	8.35	25	
Phenanthrene	79.7	2.0	µg/L	100		79.7	40-140	7.03	25	
Pyrene	82.0	2.0	µg/L	100		82.0	40-140	6.68	25	
n-Decane	43.5	2.0	µg/L	100		43.5	40-140	16.1	25	
n-Docosane	96.7	2.0	µg/L	100		96.7	40-140	6.77	25	
n-Dodecane	64.8	2.0	µg/L	100		64.8	40-140	11.6	25	
n-Eicosane	94.4	2.0	µg/L	100		94.4	40-140	6.61	25	
n-Hexacosane	92.0	2.0	µg/L	100		92.0	40-140	7.11	25	
n-Hexadecane	94.3	2.0	µg/L	100		94.3	40-140	7.84	25	
n-Hexatriacontane	97.0	2.0	µg/L	100		97.0	40-140	6.31	25	
n-Nonadecane	92.6	2.0	µg/L	100		92.6	40-140	6.04	25	
n-Nonane	30.9	2.0	µg/L	100		30.9	30-140	17.4	25	
n-Octacosane	90.5	2.0	µg/L	100		90.5	40-140	7.45	25	
n-Octadecane	97.6	2.0	µg/L	100		97.6	40-140	7.06	25	
n-Tetracosane	91.7	2.0	µg/L	100		91.7	40-140	7.39	25	
n-Tetradecane	82.8	2.0	µg/L	100		82.8	40-140	7.74	25	
n-Triacontane	93.3	2.0	µg/L	100		93.3	40-140	7.16	25	
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	*58.5*		µg/L	99.8		58.6	40-140			
Surrogate: o-Terphenyl (OTP)	*82.6*		µg/L	100		82.6	40-140			
Surrogate: 2-Bromonaphthalene	*90.3*		µg/L	100		90.3	40-140			
Surrogate: 2-Fluorobiphenyl	*102*		µg/L	100		102	40-140			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Water	
C9-C18 Aliphatics	CT,NC,WA,ME
C19-C36 Aliphatics	CT,NC,WA,ME
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME
C11-C22 Aromatics	CT,NC,WA,ME
Acenaphthene	CT,NC,WA,ME
Acenaphthylene	CT,NC,WA,ME
Anthracene	CT,NC,WA,ME
Benzo(a)anthracene	CT,NC,WA,ME
Benzo(a)pyrene	CT,NC,WA,ME
Benzo(b)fluoranthene	CT,NC,WA,ME
Benzo(g,h,i)perylene	CT,NC,WA,ME
Benzo(k)fluoranthene	CT,NC,WA,ME
Chrysene	CT,NC,WA,ME
Dibenz(a,h)anthracene	CT,NC,WA,ME
Fluoranthene	CT,NC,WA,ME
Fluorene	CT,NC,WA,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME
2-Methylnaphthalene	CT,NC,WA,ME
Naphthalene	CT,NC,WA,ME
Phenanthrene	CT,NC,WA,ME
Pyrene	CT,NC,WA,ME
SW-846 8270D in Water	
Acenaphthene	ME,NC,NY,CT,NH
Acenaphthylene	ME,NC,NY,CT,NH
Anthracene	ME,NC,NY,CT,NH
Benzo(a)anthracene	ME,NC,NY,CT,NH
Benzo(a)pyrene	ME,NC,NY,CT,NH
Benzo(b)fluoranthene	ME,NC,NY,CT,NH
Benzo(g,h,i)perylene	ME,NC,NY,CT,NH
Benzo(k)fluoranthene	ME,NC,NY,CT,NH
Chrysene	ME,NC,NY,CT,NH
Dibenz(a,h)anthracene	ME,NC,NY,CT,NH
Fluoranthene	ME,NC,NY,CT,NH
Fluorene	ME,NC,NY,CT,NH
Indeno(1,2,3-cd)pyrene	ME,NC,NY,CT,NH
2-Methylnaphthalene	ME,NC
Naphthalene	ME,NC,NY,CT,NH
Phenanthrene	ME,NC,NY,CT,NH
Pyrene	ME,NC,NY,CT,NH

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

12E1143

SUB TO:

Con-Test Laboratory
39 Spruce Street
East Longmeadow, MA 01028
Attn: Meghan Kelley

Chain of Custody

WWW.PREMIERLABORATORY.COM

Lab WO#:

Project Manager:

Copy of Report To		Billing Information		Project Information	
CUSTOMER:	Premier Laboratory Inc.	BILL TO:	Premier Laboratory Inc.	Project:	E205G37
ADDRESS:	61 Louisa Viens Drive	ADDRESS:	61 Louisa Viens Drive	Project Location:	New Bedford, MA
	Dayville, CT 06241		Dayville, CT 06241	Project Manager:	Bradford Gauthier
				IN CASE WE HAVE ANY QUESTIONS WHEN SAMPLES ARRIVE WE SHOULD CALL:	
ATTENTION:	Bradford Gauthier	ATTENTION:	Accounts Payable	E-MAIL:	BradG@PremierLaboratory.com
E-MAIL:	BradG@PremierLaboratory.com	TELEPHONE:	860-774-6814	TELEPHONE:	860-774-6814
PHONE:	860-774-6814 Fax: 860-774-2689	PURCHASE ORDER # :	E205G37	FAX:	860-774-2689

Sample Identification	Date Collected	Time Collected	Sample Type: COMPOSITE	Sample Type: GRAB	Sample Matrix	Bottles	EPH - MCP Compliant	Preservatives: H2SO4	HCL	HNO3	NAOH	NON-PRES	MeOH
-01 E205G37-2B [WS-23]	5/25/12	15:30		X	AQ	1	X					X	
-02 E205G37-3B [DUP-1]	5/25/12	0:00		X	AQ	1	X					X	

GW-1 per Brad G. 5 day TAT
5/31/12

CUSTODY TRANSFER		DATE	TIME
SAMPLER:	Weston & Sampson	5/25/2012	See Above
RECEIVED:			
RELINQUISHED:			
RECEIVED:	4.8	5/31/12	11:00
RELINQUISHED:			
RECEIVED:			

TURNAROUND (INDICATE IN CALENDAR DAYS): 14 FAX 14 HARD COPY 14 E-MAIL

EXPEDITED SERVICE MAY BE SUBJECT TO SURCHARGE

COMMENTS: **Note: These samples have not been extracted**

LIMITED VOLUME: 1 LITER PER SAMPLE

CONDITIONS UPON RECEIPT: (CHECK ONE)

■ COOLED ☐ AMBIENT °C Upon Receipt at LAB

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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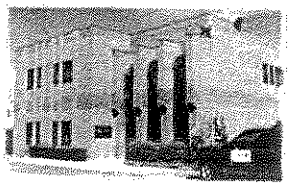
Sample Receipt Checklist



CLIENT NAME: Premier + Weston + Sampson RECEIVED BY: SD DATE: 5/31/12

1) Was the chain(s) of custody relinquished and signed? Yes (No) No CoC Included

2) Does the chain agree with the samples? (Yes) No
If not, explain:

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) How were the samples received:
On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.8

5) Are there Dissolved samples for the lab to filter? Yes (No)
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No (N/A) _____

9) Do all samples have the proper Base pH: Yes No (N/A) _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	2	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E1143
Project Location: New Bedford, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E1143-01 thru 12E1143-02

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A (X)	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is 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[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
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[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☑ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is 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[1]

***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 perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case 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: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 06/07/12

E205637

CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Page ____ of ____

Company Name: WESTON & SAMPSON
Telephone: 1800-SAMPSON
Address: 100 FOXBORO BLVD.
FOXBOROUGH, MA
Project #
Client PO#
Attention: SEAN HEALEY (781-710 4394)
Project Location: UNION ST. NEW BEDFORD
Sampled By: PADDRAIC KAVANAGH

DATA DELIVERY (check all that apply)
O FAX ☒ EMAIL O WEBSITE
Fax #
Email: HEALEYS@WSEINC.COM
Format: ☒ PDF ☒ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes ____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VPH w/ VOCs	EPH w/ PAHs	VOCs 8260										# of Containers	** Preservation	***Container Code
								2	2											4	4	V	A
	WS-12	05/25	10:45					X														
	WS-23	05/25	15:30					X	X													
	DUP-1	05/25						X	X													
	TRIP BLANK							~~X~~		X												

SCANNED

Comments: PLEASE CALL ABOUT TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
PADDRAIC KAVANAGH	5/25/12 15:58
Received by: (signature)	Date/Time: 5/25/12 15:58
Relinquished by: (signature)	Date/Time: 5/25/12 17:47
Received by: (signature)	Date/Time: 5/25/12 1747

Turnaround ††
☒ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
☒ MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

Dissolved Metals
O Field Filtered
O Lab to Filter

*****Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT