



Petroleum w/other
contaminants
MAE1910294

MIDSTATE OFFICE PARK
27 MIDSTATE DRIVE, SUITE 218
AUBURN, MA 01501
508-832-6022
FAX: 508-832-4603
WWW.ECSCONSULT.COM

February 23, 2007
File No. 93-200007.55

United States Environmental
Protection Agency, Region 1
RPG-NOC Processing
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Attn: Mr. Victor Alvarez

RE: Exxon Station
730 Cochituate Road
Framingham, Massachusetts
MassDEP RTN 3-3275

Dear Mr. Alvarez:

Environmental Compliance Services, Inc. (ECS) is pleased to provide supporting documentation for the Notice of Intent (NOI) for the Remediation General Permit (RGP) on behalf of Cumberland Farms, Inc. (CFI). This NOI is submitted in order to obtain a permit for the dewatering of an underground storage tank excavation which is part of a raze and rebuild of the existing gasoline station at the above reference location. A Site Locus and a Site Plan is provided as Figures 1 and 2, respectively. A copy of the NOI form is provided as Attachment I.

System Design

Recovered petroleum-impacted groundwater from the excavation will be pumped into a fractionation tank to allow silt and sediments to settle out of the water. The water will then be pumped from the fractionation tank through a bag filter to further reduce any suspended solids in the water. The water will then pass through two 500lb liquid phase granular activated carbon units, piped in series, to remove contaminants prior to discharging to the wetland. The anticipated maximum flow rate of the system is approximately 25 gallons per minute (gpm). A schematic sketch of the proposed system design can be found on page 12 of the NOI form in Attachment I.

Influent Sample Analysis

A sample was collected from monitoring well OW-1R (shown on Figure 2) on February 5, 2007. The sample was submitted to Groundwater Analytical of Buzzards Bay, Massachusetts under standard chain of custody protocol for analysis of semivolatile organic compounds (SVOCs) by USEPA Method 625, volatile organic compounds (VOCs) by USEPA Method 8260B, polychlorinated biphenyls (PCBs) by USEPA Method 608, total petroleum hydrocarbons (TPH) by USEPA Method 1664, ethylene dibromide (EDB) by USEPA Method 504.1, total metals (silver, arsenic, cadmium, chromium, copper, iron, nickel, lead, antimony, selenium, and zinc) by USEPA Method 6010B, mercury by USEPA Method 245.1/7470A, cyanide by USEPA Method 335.3, total residual chloride

by SM 4500 CIG, and total suspended solids by SM2540D. A copy of the laboratory report and chain of custody record are provided as Attachment II.

Comparison to the Appendix III effluent limitations (<http://www.epa.gov/region1/npdes/remediation/Appendix-III.pdf>, accessed February 23, 2007) indicates that the untreated influent sample contained iron and lead at a concentration that exceeds the effluent limitations for zero dilution. No other metals exceeded the effluent limitations listed in Appendix III.

Receiving Waters Information

The receiving water for the treated groundwater discharge is an unnamed wetland located approximately 150 southwest of the site across the intersection of Speen Street and Cochituate Road. There is no flow in the wetland.

The concentration of iron reported present in the untreated sample (17,000 micrograms per liter ($\mu\text{g/L}$) was compared to the column corresponding to a dilution factor of (0-5) in Appendix IV table. The discharge limit listed in the Appendix IV table is 1,000 $\mu\text{g/L}$; therefore, iron is subject to permit limitations or monitoring requirements for this discharge. The concentration of total lead reported present in the untreated sample (13 $\mu\text{g/L}$) was compared to the dilution factor (0-5) in Appendix IV table. The discharge limit listed in the Appendix IV table is 1.3 $\mu\text{g/L}$; therefore, lead should be subject to permit limitations of monitoring requirements for this discharge.

Receiving Water Classification

The receiving water is a wetland and is therefore, not classified as a surface water body under the Massachusetts Department of Environmental Protection (MassDEP) Division of Watershed Management Integrated List of Waters (<http://www.mass.gov/dep/water/resources/2004il4.pdf>).

Evaluation of Threatened or Endangered Species or Critical Habitat Located within Receiving Waters

According to the MassDEP Bureau of Waste Site Cleanup Map, No Areas of Critical Environmental Concern (ACECs), habitats of species of special concern, or threatened or endangered species were identified within 500 feet of the point of discharge.

Review of National Register of Historic Places

A listing of all Historic Places within the Town of Framingham was obtained from the online database at www.nr.nps.gov/nrloc1.htm (accessed February 23, 2007). The list indicated that no registered historic places are located in close proximity to the discharge location.

Should you have any questions or concerns regarding the contents of this letter or the NOI for the RGP, please do not hesitate to contact the undersigned at (508)-832-6022.

Mr. Victor Alvarez
USEPA, Region 1

February 23, 2007
Page 3

Sincerely,
ENVIRONMENTAL COMPLIANCE SERVICES, INC.


Jeffrey Barnes *for*
Senior Geologist

Attachments

Cc: Angela Pimental-CFI
Bill Simmons-ECS
Auburn General File and Reimbursement File



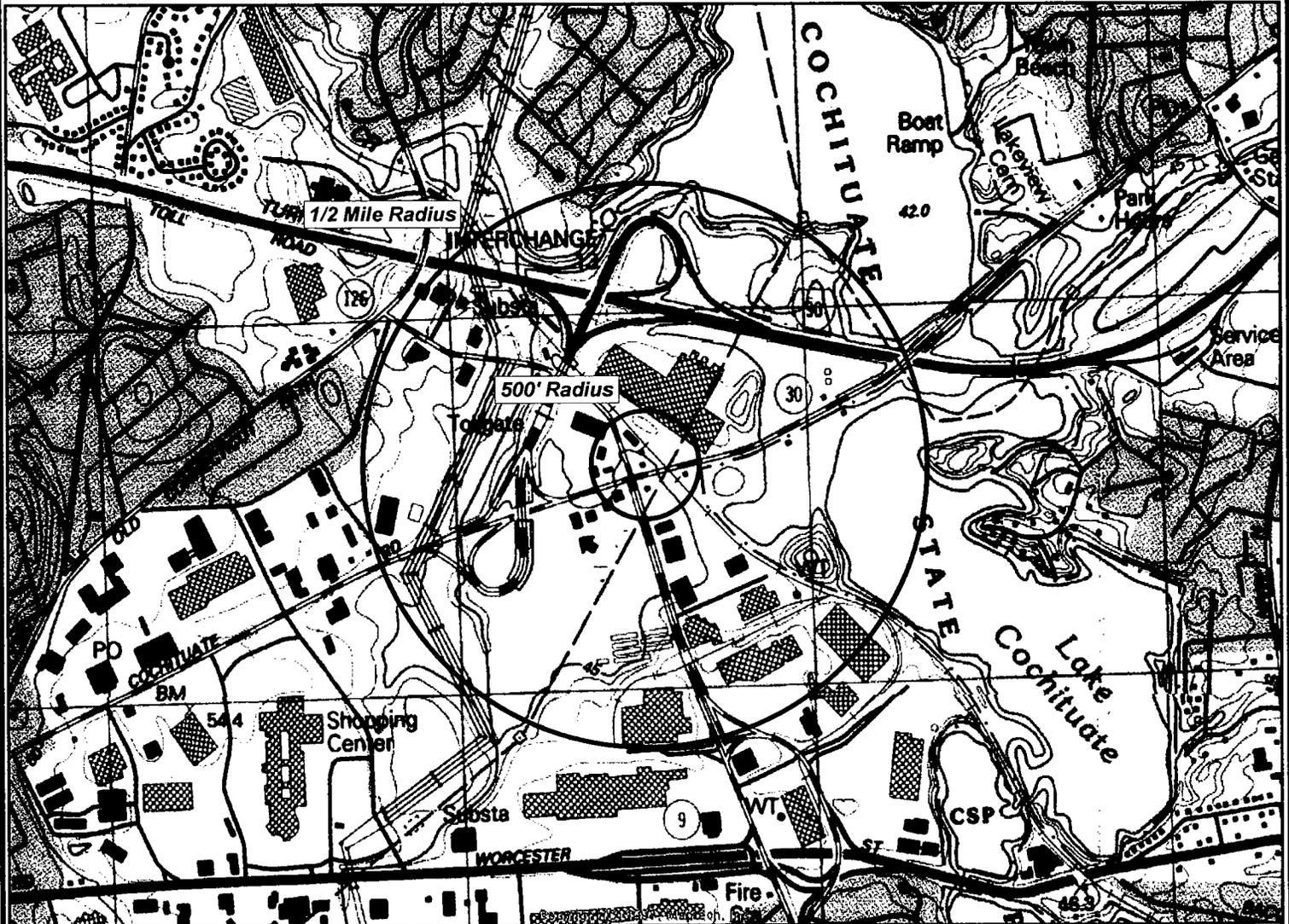
Environmental Compliance Services, Inc.
 27A Midstate Drive Suite 218, Auburn, MA 01501
 Phone (508)-832-6022 Fax (508)-832-4603
 www.ecsconsult.com

SITE LOCUS

Figure: 1

Exxon Div. of CFI Facility #70017
730 Cochituate Road
Framingham, MA
01701

Job Number: 93-200007.00



1 inch = 1500 feet

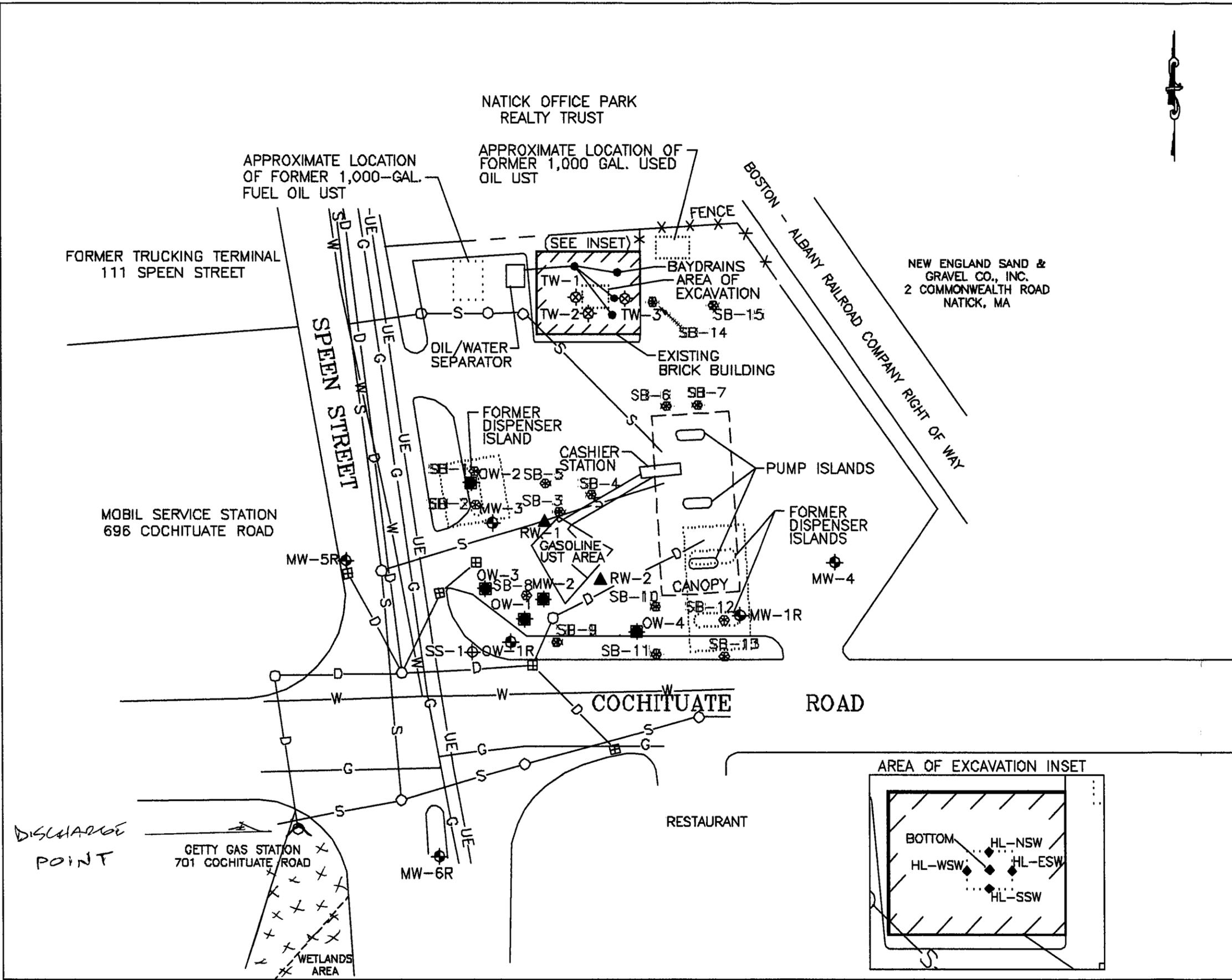
Contour Interval: 3 Meters

North



Base Map: U.S. Geological Survey; Quadrangle Location: Framingham, MA

UTM Coordinates: 19 303375 East / 46 686575 North



Legend

- ⊕ ATTEMPTED WELL POINT
- ⊕ TEMPORARY WELL POINT
- ⊕ MONITORING WELL (MW)
- ▲ RECOVERY WELL (RW)
- ⊕ SOIL BORING (SB)
- MANHOLE
- ▣ CATCH BASIN
- UST UNDERGROUND STORAGE TANK
- UE- UNDERGROUND ELECTRIC
- W- WATER LINE
- S- SEWER LINE
- D- DRAIN LINE
- G- GAS LINE
- ⊕ WELL DESTROYED

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.
 Base map compiled from Groundwater Technology site plan (5/27/94) and ECS field reconnaissance.

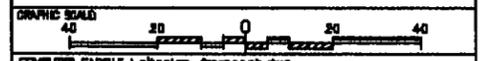


87A Midstate Drive, Suite 218 • Auburn, MA 01501
 Phone: 508-882-8022 Fax: 508-882-4898

PROJECT: **EXXON DIV. of CFI FACILITY #70017**
 730 COCHITUATE ROAD
 FRAMINGHAM, MASSACHUSETTS

TITLE: **Site Plan**

CLIENT: **CUMBERLAND FARMS, INC.**



COMPUTER CAD FILE: etstgplan.dwg			
DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
RRW/JH	RRW/JH	CJ	ML
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=40'	DEC 2005	B3-200007	1

ATTACHMENT I
NOI FOR THE RGP

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of facility/site: EXXON STATION		Facility/site address: 730 COCHITUATE RD		
Location of facility/site: longitude: _____ latitude: _____ 71° 22' 59" / 42° 18' 31"	Facility SIC code(s): 5541	Street: 730 COCHITUATE RD		
b) Name of facility/site owner: CUMBERLAND FARMS		Town: FRAMINGHAM		
Email address of owner: AP.MENTAL@CUMBERLANDFARMS.COM		State: MA	Zip: 01702	County: MIDDLESEX
Telephone no. of facility/site owner: (781) 828-4900		Owner is (check one): 1. Federal _____ 2. State/Tribal _____ 3. Private <input checked="" type="checkbox"/> 4. other, if so, describe:		
Fax no. of facility/site owner: (781) 575-9536				
Address of owner (if different from site): Street: 777 DEDHAM STREET				
Town: CANTON	State: MA	Zip: 02021	County: NORFOLK	
c) Legal name of operator: ENVIRONMENTAL COMPLIANCE SERVICES, INC.		Operator telephone no: (508) 832-6022		
		Operator fax no.: (508) 832-4603	Operator email: SSA.NE@KLSCONSULT.COM	
Operator contact name and title: STUART SAINE - PROJECT MANAGER				

Address of operator (if different from owner):		Street: 27A MIDSTATE DRIVE, ST 218	
Town: ANDOVER	State: MA	Zip: 01501	County: WORCESTER

d) Check "yes" or "no" for the following:

- Has a prior NPDES permit exclusion been granted for the discharge? Yes ___ No , if "yes," number: _____
- Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes ___ No , if "yes," date and tracking #: _____
- Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes ___ No
- For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes No ___

<p>e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes <input checked="" type="checkbox"/> No ___</p> <p>If "yes," please list:</p> <ol style="list-style-type: none"> site identification # assigned by the state of NH or MA: 3-3275 permit or license # assigned: _____ state agency contact information: name, location, and telephone number: MASS DEP BWSC NEAD - WILMINGTON, MA (978) 694-3200 	<p>f) Is the site/facility covered by any other EPA permit, including:</p> <ol style="list-style-type: none"> multi-sector storm water general permit? Y ___ N <input checked="" type="checkbox"/> , if Y, number: _____ phase I or II construction storm water general permit? Y ___ N <input checked="" type="checkbox"/> , if Y, number: _____ individual NPDES permit? Y ___ N <input checked="" type="checkbox"/> , if Y, number: _____ any other water quality related permit? Y ___ N <input checked="" type="checkbox"/> , if Y, number: _____
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

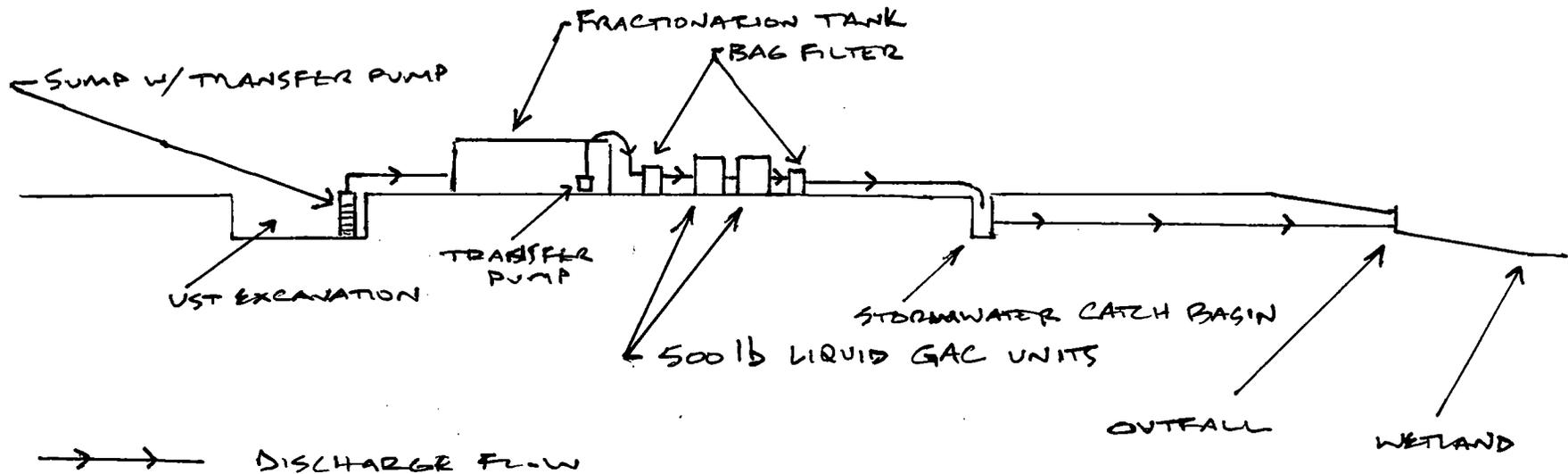
a) Describe the discharge activities for which the owner/applicant is seeking coverage:

GAS STATION IS BEING REDEVELOPED AND INCLUDES UNDERGROUND STORAGE TANK (UST) REMOVAL/REPLACEMENT. EXCAVATION ACTIVITIES FOR THIS WORK WILL INCLUDE DEWATERING DUE TO SHALLOW GROUNDWATER. GROUNDWATER WILL BE TREATED PRIOR TO DISCHARGE.

b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow <u>0.06</u> Average flow <u>0.06</u> Is maximum flow a design value? Y ___ N <input checked="" type="checkbox"/> For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. 71° 22' 59" 42' 18' 28"
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3) Latitude and longitude of each discharge within 100 feet: pt.1: long. _____ lat. _____; pt.2: long. _____ lat. _____; pt.3: long. _____ lat. _____; pt.4: long. _____ lat. _____; pt.5: long. _____ lat. _____; pt.6: long. _____ lat. _____; pt.7: long. _____ lat. _____; pt.8: long. _____ lat. _____; etc.

4) If hydrostatic testing, total volume of the discharge (gals): <p style="text-align: center;"><i>NA</i></p>	5) Is the discharge intermittent <input checked="" type="checkbox"/> or seasonal <input type="checkbox"/> ? Is discharge ongoing Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> ?
c) Expected dates of discharge (mm/dd/yy): start <u>03/12/07</u> end <u>04/06/07</u>	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	



3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for all of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants ✓	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		✓	1	GRAB	SM 2540D	10,000	380,000	—	380,000	—
2. Total Residual Chlorine	✓		1	GRAB	SM 4500C16	200	<200	—	<200	—
3. Total Petroleum Hydrocarbons	✓		1	GRAB	EPA 1664	5,000	<5,000	—	<5,000	—
4. Cyanide	✓		1	GRAB	EPA 9012A	10	<10	—	<10	—
5. Benzene		✓	1	GRAB	MAD 11 VPH	10	540	—	540	—
6. Toluene		✓	1	GRAB	"	50	120	—	120	—
7. Ethylbenzene		✓	1	GRAB	"	50	520	—	520	—
8. (m,p,o) Xylenes		✓	1	GRAB	"	100	3,153	—	3,153	—
9. Total BTEX ⁴		✓	1	GRAB	"	210	4,333	—	4,333	—

⁴BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✓		1	GRAB	M. 8260B	50	< 50	-	< 50	-
11. Methyl-tert-Butyl Ether (MtBE)		✓	1	GRAB	MADLUPPH	50	1,900	-	1,900	-
12. tert-Butyl Alcohol (TBA)	✓		1	GRAB	M. 8260B	2,000	< 2,000	-	< 2,000	-
13. tert-Amyl Methyl Ether (TAME)		✓	1	GRAB	"	50	440	-	440	-
14. Naphthalene		✓	1	GRAB	MADLUPPH	* 170	170	-	170	-
15. Carbon Tetrachloride	✓		1	GRAB	M. 8260B	50	< 50	-	< 50	-
16. 1,4 Dichlorobenzene	✓		1	GRAB	M. 8260B	50	< 50	-	< 50	-
17. 1,2 Dichlorobenzene	✓		1	GRAB	M. 8260B	50	< 50	-	< 50	-
18. 1,3 Dichlorobenzene	✓		1	GRAB	M. 8260B	50	< 50	-	< 50	-
19. 1,1 Dichloroethane	✓		1	GRAB	M. 8260B	50	< 50	-	< 50	-
20. 1,2 Dichloroethane	✓		1	GRAB	M. 8260B	50	< 50	-	< 50	-
21. 1,1 Dichloroethylene	✓		1	GRAB	M. 8260B	50	< 50	-	< 50	-
22. cis-1,2 Dichloroethylene	✓		1	GRAB	M. 8260B	50	< 50	-	< 50	-
23. Dichloromethane (Methylene Chloride)	✓		1	GRAB	M. 8260B	250	< 250	-	< 250	-
24. Tetrachloroethylene	✓		1	GRAB	M. 8260B	50	< 50	-	< 50	-

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		1	GRAB	M. 8260B	50	<50	-	<50	-
26. 1,1,2 Trichloroethane	✓		1	GRAB	M. 8260B	50	<50	-	<50	-
27. Trichloroethylene	✓		1	GRAB	M. 8260B	50	<50	-	<50	-
28. Vinyl Chloride	✓		1	GRAB	M. 8260B	50	<50	-	<50	-
29. Acetone	✓		1	GRAB	M. 8260B	1,000	<1,000	-	<1,000	-
30. 1,4 Dioxane	✓		1	GRAB	M. 8260B	50,000	<50,000	-	<50,000	-
31. Total Phenols	✓		1	GRAB	M. 625	10	<10	-	<10	-
32. Pentachlorophenol	✓		1	GRAB	M. 625	10	<10	-	<10	-
33. Total Phthalates ⁵ (Phthalate esthers)	✓		1	GRAB	M. 625	60	<60	-	<60	-
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1	GRAB	M. 625	10	<10	-	<10	-
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	GRAB	M. 625	70	<70	-	<70	-
a. Benzo(a) Anthracene	✓		1	GRAB	M. 625	10	<10	-	<10	-
b. Benzo(a) Pyrene	✓		1	GRAB	M. 625	10	<10	-	<10	-
c. Benzo(b)Fluoranthene	✓		1	GRAB	M. 625	10	<10	-	<10	-
d. Benzo(k) Fluoranthene	✓		1	GRAB	M. 625	10	<10	-	<10	-
e. Chrysene	✓		1	GRAB	M. 625	10	<10	-	<10	-

⁵The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		1	GRAB	M. 625	10	<10	-	<10	-
g. Indeno(1,2,3-cd) Pyrene	✓		1	GRAB	M. 625	10	<10	-	<10	-
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✓	1	GRAB	M. 625	10	120	-	120	-
h. Acenaphthene	✓		1	GRAB	M. 625	10	<10	-	<10	-
i. Acenaphthylene	✓		1	GRAB	M. 625	10	<10	-	<10	-
j. Anthracene	✓		1	GRAB	M. 625	10	<10	-	<10	-
k. Benzo(ghi) Perylene	✓		1	GRAB	M. 625	10	<10	-	<10	-
l. Fluoranthene	✓		1	GRAB	M. 625	10	<10	-	<10	-
m. Fluorene	✓		1	GRAB	M. 625	10	<10	-	<10	-
n. Naphthalene-		✓	1	GRAB	M. 625	10	120	-	120	-
o. Phenanthrene	✓		1	GRAB	M. 625	10	<10	-	<10	-
p. Pyrene	✓		1	GRAB	M. 625	10	<10	-	<10	-
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	GRAB	M 608	1.4	<1.4	-	<1.4	-
38. Antimony	✓		1	GRAB	SW 846	5	<5	-	<5	-
39. Arsenic		✓	1	GRAB	M 6020A	6	15	-	15	-
40. Cadmium	✓		1	GRAB	M 6010B	4	<4	-	<4	-
41. Chromium III	✓		1	GRAB	M 6010B	10	<10	-	<10	-
42. Chromium VI	✓		1	GRAB	M 7196A	10	<10	-	<10	-

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	✓		1	GRAB	6010B	25	<25	-	<25	-
44. Lead		✓	1	GRAB	6010B	5	13	-	13	-
45. Mercury	✓		1	GRAB	7470A	.5	<.5	-	<.5	-
46. Nickel	✓		1	GRAB	6010B	40	<40	-	<40	-
47. Selenium	✓		1	GRAB	6020A	50	<50	-	<50	-
48. Silver	✓		1	GRAB	6010B	7	<7	-	<7	-
49. Zinc	✓		1	GRAB	6010B	200	<200	-	<200	-
50. Iron		✓	1	GRAB	6010B	100	17,000	-	17,000	-
Other (describe):										

c) For discharges where **metals** are believed present, please fill out the following:

<p>Step 1: Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y <input checked="" type="checkbox"/> N <input type="checkbox"/></p>	<p>If yes, which metals? IRON LEAD</p>
<p>Step 2: For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: <u>LEAD, IRON</u> DF: <u>0</u></p>	<p>Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y <input checked="" type="checkbox"/> N <input type="checkbox"/> If "Yes," list which metals: <u>LEAD, IRON</u></p>

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:
 GROUNDWATER WILL BE PUMPED FROM THE UST EXCAVATION TO A FRACTIONATION TANK. THE GROUNDWATER WILL THEN BE PUMPED FROM THE FRAC. TANK THROUGH A GAC FILTER AND SUBSEQUENTLY THROUGH TWO 500-16 GAC UNITS. THE TREATED GW WILL BE DISCHARGED TO AN ON-SITE STORMWATER CATCH BASIN.

b) Identify each applicable treatment unit (check all that apply):

Frac. tank ✓	Air stripper	Oil/water separator	Equalization tanks	Bag filter ✓	GAC filter ✓
Chlorination	Dechlorination	Other (please describe):			

c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system:
 Average flow rate of discharge 25 Maximum flow rate of treatment system 60 Design flow rate of treatment system _____

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):
 NA

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:

Direct _____	Within facility _____	Storm drain <input checked="" type="checkbox"/>	River/brook _____	Wetlands <input checked="" type="checkbox"/>	Other (describe):
--------------	-----------------------	---	-------------------	--	-------------------

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:
 RECOVERED, TREATED GROUNDWATER WILL BE DISCHARGED TO AN ON-SITE STORMWATER CATCH BASIN LOCATED IN THE SOUTHWEST CORNER OF THE SITE. THE STORMWATER CONVEYANCE DISCHARGES TO AN UNNAMED WETLAND LOCATED SOUTHWEST OF THE INTERSECTION OF SPEEN STREET AND COLHATVATE RD.

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:
 1. For multiple discharges, number the discharges sequentially.
 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water
 The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water NA,

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water NA cfs
 Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ___ No If yes, for which pollutant(s)?

Is there a TMDL? Yes ___ No If yes, for which pollutant(s)?

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes ___ No
 Has any consultation with the federal services been completed? No or is consultation underway? No
 What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):
 a "no jeopardy" opinion? ___ or written concurrence ___ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge? Yes ___ No
 Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes ___ No

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name:	EXXON STATION 730 COCHITUATE RD, FRAMINGHAM, MA
Operator signature:	
Title:	Sr. Geologist
Date:	2/23/07

ATTACHMENT II

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD

GROUNDWATER ANALYTICAL

Groundwater Analytical Inc.
P. O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

February 9, 2007

Mr. Stuart Saine
Environmental Compliance Services, Inc.
27 Midstate Dr.
Suite 218
Auburn, MA 01501

LABORATORY REPORT

Project: **CFI #70017 Framingham/93-200007.55**
Lab ID: **103808**
Received: **02-06-07**

Dear Stuart:

Enclosed are the analytical results for the above referenced project. The project was processed for Rush 3 Business Day turnaround.

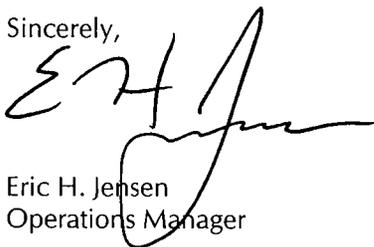
This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury 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.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,



Eric H. Jensen
Operations Manager

EHJ/ajh
Enclosures

Sample Receipt Report

Project: CFI #70017 Framingham/93-200007.55 Delivery: GWA Courier Temperature: 2.0'C
 Client: Environmental Compliance Services, Inc. Airbill: n/a Chain of Custody: Present
 Lab ID: 103808 Lab Receipt: 02-06-07 Custody Seal(s): n/a

Lab ID	Field ID		Matrix	Sampled	Method			Notes
103808-1	OW-1R		Aqueous	2/5/07 13:35	EPA 625 Semivolatile Organics			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C908655	1 L Amber Glass	n/a	n/a	None	n/a	n/a	n/a	
C908648	1 L Amber Glass	n/a	n/a	None	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
103808-2	OW-1R		Aqueous	2/5/07 13:35	EPA 608 PCBs			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C908649	1 L Amber Glass	n/a	n/a	None	n/a	n/a	n/a	
C908647	1 L Amber Glass	n/a	n/a	None	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
103808-3	OW-1R		Aqueous	2/5/07 13:35	EPA 6010B Cd Cr Cu Fe Pb Ni Se Ag Zn Total EPA 6020A As Sb EPA 7470A Mercury by CVAA EPA 7196/EPA 6010 Trivalent Chromium			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C554339	250 mL Plastic	Proline	BX14885	HNO3	R-4184C	11-15-04	12-02-04	
C554100	250 mL Plastic	Greenwood	BX14786	HNO3	R-4184C	11-02-04	12-02-04	
C554127	250 mL Plastic	Greenwood	BX14786	HNO3	R-4184C	11-02-04	12-02-04	
C554088	250 mL Plastic	Greenwood	BX14786	HNO3	R-4184C	11-02-04	12-02-04	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
103808-4	MW-1R		Aqueous	2/5/07 12:50	Lachat 10-107-04-1-C (SM 4500-NO3 F) Nitrate EPA 9056 Sulfate			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C882254	1 L Plastic	Proline	BX24472	None	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
103808-5	MW-3		Aqueous	2/5/07 12:10	Lachat 10-107-04-1-C (SM 4500-NO3 F) Nitrate EPA 9056 Sulfate			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C883181	1 L Plastic	Proline	BX24570	None	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
103808-6	MW-4		Aqueous	2/5/07 11:00	Lachat 10-107-04-1-C (SM 4500-NO3 F) Nitrate EPA 9056 Sulfate			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C882233	1 L Plastic	Proline	BX24472	None	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
103808-7	MW-5R		Aqueous	2/5/07 14:30	Lachat 10-107-04-1-C (SM 4500-NO3 F) Nitrate EPA 9056 Sulfate			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C882201	1 L Plastic	Proline	BX24472	None	n/a	n/a	n/a	

Lab ID	Field ID		Matrix	Sampled	Method			Notes
103808-8	MW-6R		Aqueous	2/5/07 15:40	Lachat 10-107-04-1-C (SM 4500-NO3 F) Nitrate EPA 9056 Sulfate			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C882253	1 L Plastic	Proline	BX24472	None	n/a	n/a	n/a	

Sample Receipt Report (Continued)

Project: CFI #70017 Framingham/93-200007.55 Delivery: GWA Courier Temperature: 2.0°C
 Client: Environmental Compliance Services, Inc. Airbill: n/a Chain of Custody: Present
 Lab ID: 103808 Lab Receipt: 02-06-07 Custody Seal(s): n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes			
103808-9	OW-1R	Aqueous	2/5/07 13:35	Lachat 10-107-04-1-C (SM 4500-NO3 F) Nitrate EPA 9056 Sulfate				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C882246	1 L Plastic	Proline	BX24472	None	n/a	n/a	n/a	
103808-10	OW-1R	Aqueous	2/5/07 13:35	SM 2540 D Total Suspended Solids				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C883172	1 L Plastic	Proline	BX24570	None	n/a	n/a	n/a	
103808-11	OW-1R	Aqueous	2/5/07 13:35	EPA 9012A Total Cyanide				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C539731	500 mL Plastic	Proline	BX15545	NaOH	R-4197A	02-23-05	04-05-05	
103808-12	OW-1R	Aqueous	2/5/07 13:35	SM 4500-Cl G Total Residual Chlorine EPA 7196A Hexavalent Chromium				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C883171	1 L Plastic	Proline	BX24570	None	n/a	n/a	n/a	
103808-13	OW-1R	Aqueous	2/5/07 13:35	EPA 1664 Hexane Extractable Material				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C829872	1 L Amber Glass	Proline	BX22606	H2SO4	R-49971	08-18-06	08-28-06	
103808-14	MW-1R	Aqueous	2/5/07 12:50	EPA 6010B Fe Dissolved				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C908646	250 mL Plastic	n/a	n/a	HNO3	n/a	n/a	n/a	
103808-15	MW-3	Aqueous	2/5/07 12:10	EPA 6010B Fe Dissolved				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C908645	250 mL Plastic	n/a	n/a	HNO3	n/a	n/a	n/a	
103808-16	MW-4	Aqueous	2/5/07 11:00	EPA 6010B Fe Dissolved				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C908644	250 mL Plastic	n/a	n/a	HNO3	n/a	n/a	n/a	
103808-17	MW-5R	Aqueous	2/5/07 14:30	EPA 6010B Fe Dissolved				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C908643	250 mL Plastic	n/a	n/a	HNO3	n/a	n/a	n/a	
103808-18	MW-6R	Aqueous	2/5/07 15:40	EPA 6010B Fe Dissolved				
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship	
C908642	250 mL Plastic	n/a	n/a	HNO3	n/a	n/a	n/a	

Sample Receipt Report (Continued)

Project: CFI #70017 Framingham/93-200007.55 Delivery: GWA Courier Temperature: 2.0'C
 Client: Environmental Compliance Services, Inc. Airbill: n/a Chain of Custody: Present
 Lab ID: 103808 Lab Receipt: 02-06-07 Custody Seal(s): n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes		
103808-19	OW-1R	Aqueous	2/5/07 13:35	EPA 6010B Fe Dissolved			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C908641	250 mL Plastic	n/a	n/a	HNO3	n/a	n/a	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes		
103808-21	MW-1R	Aqueous	2/5/07 12:50	MA DEP VPH with Targets			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C816395	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a
C816389	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a
C816383	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes		
103808-22	MW-3	Aqueous	2/5/07 12:10	MA DEP VPH with Targets			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C816377	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a
C816365	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a
C816359	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes		
103808-23	MW-4	Aqueous	2/5/07 11:00	MA DEP VPH with Targets			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C816360	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a
C816354	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a
C816348	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes		
103808-24	MW-5R	Aqueous	2/5/07 14:30	MA DEP VPH with Targets			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C816406	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a
C816400	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a
C816341	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes		
103808-25	MW-6R	Aqueous	2/5/07 15:40	MA DEP VPH with Targets			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C816394	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a
C816388	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a
C816382	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a

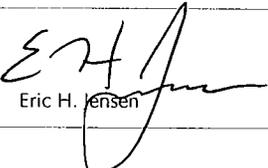
Lab ID	Field ID	Matrix	Sampled	Method	Notes		
103808-26	OW-1R	Aqueous	2/5/07 13:35	EPA 8260B Volatile Organics with Oxygenates MA DEP VPH with Targets			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C816353	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a
C816347	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a
C816342	40 mL VOA Vial	Proline	BX24453	HCl	R-4868D	12-27-06	n/a

Lab ID	Field ID	Matrix	Sampled	Method	Notes		
103808-27	OW-1R	Aqueous	2/5/07 13:35	EPA 504.1 EDB and DBCP			
Con ID	Container	Vendor	QC Lot	Preserv	QC Lot	Prep	Ship
C306735	40 mL VOA Vial	Industrial	BX10523	None	n/a	n/a	n/a
C306728	40 mL VOA Vial	Industrial	BX10523	None	n/a	n/a	n/a
C306716	40 mL VOA Vial	Industrial	BX10523	None	n/a	n/a	n/a

Data Certification

Project: CFI #70017 Framingham/93-200007.55
 Client: Environmental Compliance Services, Inc.

Lab ID: 103808
 Received: 02-06-07 15:40

MA DEP Compendium of Analytical Methods							
Project Location:	n/a					MA DEP RTN:	n/a
This Form provides certifications for the following data set:							
EPA 8260B:	103808-26						
MA DEP VPH:	103808-21,-22,-23,-24,-25,-26						
EPA 6010B:	103808-03,-14,-15,-16,-17,-18,-19						
EPA 9012A:	103808-11						
EPA 7196A:	103808-12						
Sample Matrices:	Groundwater (X)	Soil/Sediment ()	Drinking Water ()	Other ()			
MCP SW-846	8260B (X)	8151A ()	8330 ()	6010B (X)	7470A/1A ()		
Methods Used	8270C ()	8081A ()	VPH (X)	6020 ()	9012A ² (X)		
As specified in MA DEP Compendium of Analytical Methods.	8082 ()	8021B ()	EPH ()	7000 S ³ (X)	Other ()		
(check all that apply)	1. List Release Tracking Number (RTN), if known. 2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method 3. S - SW-846 Methods 7000 Series. List individual method and analyte.						
An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.							
A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?					Yes	
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?					Yes	
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, <i>Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data</i> ?					Yes	
D.	<u>VPH and EPH methods only</u> : Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?					Yes	
A response to questions E and F below is required for "Presumptive Certainty" status.							
E.	Were all QC performance standards and recommendations for the specified methods achieved?					No	
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?					No	
All No answers are addressed in the attached Project 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:	Operations Manager		
Printed Name:	Eric H. Jensen			Date:	02-09-07		

EPA Method 625 Semivolatile Organics by GC/MS

Field ID: **OW-1R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**
 Laboratory ID: **103808-01**
 Sampled: **02-05-07 13:35**
 Received: **02-06-07 15:40**
 Extracted: **02-07-06 08:00**
 Analyzed: **02-07-07 20:39**
 Analyst: **MJB**

Matrix: **Aqueous**
 Container: **1 L Amber Glass**
 Preservation: **Cool**
 QC Batch ID: **SV-2035-F**
 Instrument ID: **MS-3 HP 5890**
 Sample Volume: **1000 mL**
 Final Volume: **1 mL**
 Dilution Factor: **1**

Page: 1 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
62-75-9	N-Nitrosodimethylamine	BRL		ug/L	10
110-86-1	Pyridine	BRL		ug/L	10
108-95-2	Phenol	BRL		ug/L	10
111-44-4	Bis(2-chloroethyl) ether	BRL		ug/L	10
95-57-8	2-Chlorophenol	BRL		ug/L	10
62-53-3	Aniline	BRL		ug/L	10
124-18-5	n-Decane (C10)	BRL		ug/L	10
541-73-1	1,3-Dichlorobenzene	BRL		ug/L	10
106-46-7	1,4-Dichlorobenzene	BRL		ug/L	10
95-50-1	1,2-Dichlorobenzene	BRL		ug/L	10
108-60-1	Bis(2-chloroisopropyl) ether	BRL		ug/L	10
95-48-7	2-Methylphenol	BRL		ug/L	10
621-64-7	N-Nitrosodi-n-propylamine	BRL		ug/L	10
108-39-4/106-44-5	3 and 4-Methylphenol	BRL		ug/L	10
67-72-1	Hexachloroethane	BRL		ug/L	10
98-86-2	Acetophenone	BRL		ug/L	10
98-95-3	Nitrobenzene	BRL		ug/L	10
78-59-1	Isophorone	BRL		ug/L	10
88-75-5	2-Nitrophenol	BRL		ug/L	10
105-67-9	2,4-Dimethylphenol	18		ug/L	10
65-85-0	Benzoic Acid	BRL		ug/L	10
111-91-1	Bis(2-chloroethoxy) methane	BRL		ug/L	10
120-83-2	2,4-Dichlorophenol	BRL		ug/L	10
120-82-1	1,2,4-Trichlorobenzene	BRL		ug/L	10
98-55-5	alpha-Terpineol	BRL		ug/L	10
91-20-3	Naphthalene	120		ug/L	10
87-68-3	Hexachlorobutadiene	BRL		ug/L	10
59-50-7	4-Chloro-3-methylphenol	BRL		ug/L	10
77-47-4	Hexachlorocyclopentadiene	BRL		ug/L	10
608-27-5	2,3-Dichloroaniline	BRL		ug/L	10
88-06-2	2,4,6-Trichlorophenol	BRL		ug/L	10
91-58-7	2-Chloronaphthalene	BRL		ug/L	10
131-11-3	✓Dimethyl phthalate	BRL		ug/L	10
208-96-8	Acenaphthylene	BRL		ug/L	10
606-20-2	2,6-Dinitrotoluene	BRL		ug/L	10
83-32-9	Acenaphthene	BRL		ug/L	10
51-28-5	2,4-Dinitrophenol	BRL		ug/L	10
100-02-7	4-Nitrophenol	BRL		ug/L	10
121-14-2	2,4-Dinitrotoluene	BRL		ug/L	10
84-66-2	✓Diethyl phthalate	BRL		ug/L	10
7005-72-3	4-Chlorophenyl phenyl ether	BRL		ug/L	10
86-73-7	Fluorene	BRL		ug/L	10
534-52-1	4,6-Dinitro-2-methylphenol	BRL		ug/L	10
86-30-6	N-Nitrosodiphenylamine [†]	BRL		ug/L	10
122-66-7	1,2-Diphenylhydrazine [°]	BRL		ug/L	10

EPA Method 625 (Continued) Semivolatile Organics by GC/MS

Field ID: **OW-1R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**
 Laboratory ID: **103808-01**
 Sampled: **02-05-07 13:35**
 Received: **02-06-07 15:40**
 Extracted: **02-07-06 08:00**
 Analyzed: **02-07-07 20:39**
 Analyst: **MJB**

Matrix: **Aqueous**
 Container: **1 L Amber Glass**
 Preservation: **Cool**
 QC Batch ID: **SV-2035-F**
 Instrument ID: **MS-3 HP 5890**
 Sample Volume: **1000 mL**
 Final Volume: **1 mL**
 Dilution Factor: **1**

Page: 2 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
101-55-3	4-Bromophenyl phenyl ether	BRL		ug/L	10
118-74-1	Hexachlorobenzene	BRL		ug/L	10
87-86-5	Pentachlorophenol	BRL		ug/L	10
593-45-3	n-Octadecane (C18)	BRL		ug/L	10
85-01-8	Phenanthrene	BRL		ug/L	10
120-12-7	Anthracene	BRL		ug/L	10
86-74-8	Carbazole	BRL		ug/L	10
84-74-2	Di-n-butyl phthalate	BRL		ug/L	10
206-44-0	Fluoranthene	BRL		ug/L	10
92-87-5	Benzydine	BRL		ug/L	10
129-00-0	Pyrene	BRL		ug/L	10
85-68-7	Butyl benzyl phthalate	BRL		ug/L	10
91-94-1	3,3'-Dichlorobenzidine	BRL		ug/L	10
56-55-3	Benzo[a]anthracene	BRL		ug/L	10
218-01-9	Chrysene	BRL		ug/L	10
117-81-7	Bis(2-ethylhexyl) phthalate	BRL		ug/L	10
117-84-0	Di-n-octyl phthalate	BRL		ug/L	10
205-99-2	Benzo[b]fluoranthene	BRL		ug/L	10
207-08-9	Benzo[k]fluoranthene	BRL		ug/L	10
50-32-8	Benzo[a]pyrene	BRL		ug/L	10
193-39-5	Indeno[1,2,3-c,d]pyrene	BRL		ug/L	10
53-70-3	Dibenzo[a,h]anthracene	BRL		ug/L	10
191-24-2	Benzo[g,h,i]perylene	BRL		ug/L	10

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2-Fluorophenol	200	260	131 % m	15 - 110 %
Phenol-d5	200	92	46 %	15 - 110 %
Nitrobenzene-d5	100	75	75 %	30 - 130 %
2-Fluorobiphenyl	100	81	81 %	30 - 130 %
2,4,6-Tribromophenol	200	200	98 %	15 - 110 %
Terphenyl-d14	100	88	88 %	30 - 130 %

Method Reference: Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, US EPA, 40 C.F.R. 136, Appendix A, (1986).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
 † Reported as sum of N-Nitrosodiphenylamine and Diphenylamine.
 ◊ Analyzed as Azobenzene.
 m Surrogate recovery outside recommended limits due to sample matrix interference.

**EPA Method 608
Polychlorinated Biphenyls (PCBs) by GC/ECD**

Field ID: **OW-1R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**

Matrix: **Aqueous**
 Container: **1 L Amber Glass**
 Preservation: **Cool**

Laboratory ID: **103808-02**
 Sampled: **02-05-07 13:35**
 Received: **02-06-07 15:40**
 Extracted: **02-07-07 11:00**
 Cleaned Up: **02-07-07 15:00**
 Analyzed: **02-07-07 19:25**
 Analyst: **CRL**

QC Batch ID: **PB-2312-F**
 Instrument ID: **GC-11 Agilent 6890**
 Sample Weight: **1000 mL**
 Final Volume: **1 mL**
 Dilution Factor: **1**

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
12674-11-2	Aroclor 1016		BRL	ug/L	0.2
11104-28-2	Aroclor 1221		BRL	ug/L	0.2
11141-16-5	Aroclor 1232		BRL	ug/L	0.2
53469-21-9	Aroclor 1242		BRL	ug/L	0.2
12672-29-6	Aroclor 1248		BRL	ug/L	0.2
11097-69-1	Aroclor 1254		BRL	ug/L	0.2
11096-82-5	Aroclor 1260		BRL	ug/L	0.2

QC Surrogate Compound		Spiked	Measured	Recovery	QC Limits
First	Tetrachloro- <i>m</i> -xylene	0.20	0.17	84 %	30 - 150 %
Column	Decachlorobiphenyl	0.20	0.17	85 %	30 - 150 %
Second	Tetrachloro- <i>m</i> -xylene	0.20	0.17	83 %	30 - 150 %
Column	Decachlorobiphenyl	0.20	0.24	118 %	30 - 150 %

Method Reference: Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, US EPA, 40 C.F.R. 136, Appendix A, (1986).
 Sample extraction performed by EPA Method 3510C. Cleanup performed by EPA Method 3660B and EPA Method 3665A.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

Inorganic Chemistry

Field ID: MW-1R
 Project: CFI #70017 Framingham/93-200007.55
 Client: Environmental Compliance Services, Inc.

Matrix: Aqueous
 Received: 02-06-07 15:40

Lab ID: 103808-04 Sampled: 02-05-07 12:50 Container: 1 L Plastic Preservation: Cool

Analyte	Result	Units	RL	DF	Volume	Analyzed	QC Batch	Method	Inst	Analyst
Nitrate (as Nitrogen)	BRL	mg/L	0.02	1	5 mL	02-06-07 17:29	NI-3310-W	Lachat 10-107-04-1-C (SM 4500-NO3 F)	1	LJD
Sulfate	10	mg/L	3	10	0.5 mL	02-07-07 23:53	IC-0972-W	EPA 9056	2	DDH

Method Reference: Methods for Chemical Analysis of Water and Wastes, US EPA, EPA-600/4-790-020 (Revised 1983), and Methods for the Determination of Inorganic Substances in Environmental Samples, US EPA, EPA/600/R-93/100 (1993), and Standard Methods for the Examination of Water and Wastewater, APHA, Twentieth Edition (1998), and Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

RL Reporting Limit.

DF Dilution Factor.

1 Instrument ID: Lachat 8000 Autoanalyzer

2 Instrument ID: Dionex DX-500 IC

Inorganic Chemistry

Field ID: MW-3
 Project: CFI #70017 Framingham/93-200007.55
 Client: Environmental Compliance Services, Inc.

Matrix: **Aqueous**
 Received: **02-06-07 15:40**

Lab ID: **103808-05** Sampled: **02-05-07 12:10** Container: **1 L Plastic** Preservation: **Cool**

Analyte	Result	Units	RL	DF	Volume	Analyzed	QC Batch	Method	Inst	Analyst
Nitrate (as Nitrogen)	0.53	mg/L	0.02	1	5 mL	02-06-07 17:33	NI-3310-W	Lachat 10-107-04-1-C (SM 4306-NO1 F)	1	LJD
Sulfate	30	mg/L	3	10	0.5 mL	02-08-07 00:30	IC-0972-W	EPA 9056	2	DDH

Method Reference: Methods for Chemical Analysis of Water and Wastes, US EPA, EPA-600/4-790-020 (Revised 1983), and Methods for the Determination of Inorganic Substances in Environmental Samples, US EPA, EPA/600/R-93/100 (1993), and Standard Methods for the Examination of Water and Wastewater, APHA, Twentieth Edition (1998), and Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

RL Reporting Limit.

DF Dilution Factor.

1 Instrument ID: Lachat 8000 Autoanalyzer

2 Instrument ID: Dionex DX-500 IC

Inorganic Chemistry

Field ID: **MW-4**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**

Matrix: **Aqueous**
 Received: **02-06-07 15:40**

Lab ID: **103808-06** Sampled: **02-05-07 11:00** Container: **1 L Plastic** Preservation: **Cool**

Analyte	Result	Units	RL	DF	Volume	Analyzed	QC Batch	Method	Inst	Analyst
Nitrate (as Nitrogen)	BRL	mg/L	0.02	1	5 mL	02-06-07 17:36	NI-3310-W	Lachat 10-107-04-1-C (SM) 4500-NO3 F3	1	LJD
Sulfate	24	mg/L	3	10	0.5 mL	02-08-07 01:08	IC-0972-W	EPA 9056	2	DDH

Method Reference: Methods for Chemical Analysis of Water and Wastes, US EPA, EPA-600/4-790-020 (Revised 1983), and Methods for the Determination of Inorganic Substances in Environmental Samples, US EPA, EPA/600/R-93/100 (1993), and Standard Methods for the Examination of Water and Wastewater, APHA, Twentieth Edition (1998), and Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

RL Reporting Limit.

DF Dilution Factor.

1 Instrument ID: Lachat 8000 Autoanalyzer

2 Instrument ID: Dionex DX-500 IC

Inorganic Chemistry

Field ID: **MW-5R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**

Matrix: **Aqueous**
 Received: **02-06-07 15:40**

Lab ID: **103808-07** Sampled: **02-05-07 14:30** Container: **1 L Plastic** Preservation: **Cool**

Analyte	Result	Units	RL	DF	Volume	Analyzed	QC Batch	Method	Inst	Analyst
Nitrate (as Nitrogen)	BRL	mg/L	0.02	1	5 mL	02-06-07 17:37	NI-3310-W	Lachat 10-107-04-1-C (SM 4500-NO3 F)	1	LJD
Sulfate	24	mg/L	3	10	0.5 mL	02-08-07 01:20	IC-0972-W	EPA 9056	2	DDH

Method Reference: Methods for Chemical Analysis of Water and Wastes, US EPA, EPA-600/4-790-020 (Revised 1983), and Methods for the Determination of Inorganic Substances in Environmental Samples, US EPA, EPA/600/R-93/100 (1993), and Standard Methods for the Examination of Water and Wastewater, APHA, Twentieth Edition (1998), and Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

RL Reporting Limit.

DF Dilution Factor.

1 Instrument ID: Lachat 8000 Autoanalyzer

2 Instrument ID: Dionex DX-500 IC

Inorganic Chemistry

Field ID: **MW-6R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**

Matrix: **Aqueous**
 Received: **02-06-07 15:40**

Lab ID: **103808-08** Sampled: **02-05-07 15:40** Container: **1 L Plastic** Preservation: **Cool**

Analyte	Result	Units	RL	DF	Volume	Analyzed	QC Batch	Method	Inst	Analyst
Nitrate (as Nitrogen)	BRL	mg/L	0.02	1	5 mL	02-06-07 17:38	NI-3310-W	Lachat 10-107-04-I-C (SM 4500-NO3 F)	1	LJD
Sulfate	13	mg/L	3	10	0.5 mL	02-08-07 01:32	IC-0972-W	EPA 9056	2	DDH

Method Reference: Methods for Chemical Analysis of Water and Wastes, US EPA, EPA-600/4-790-020 (Revised 1983), and Methods for the Determination of Inorganic Substances in Environmental Samples, US EPA, EPA/600/R-93/100 (1993), and Standard Methods for the Examination of Water and Wastewater, APHA, Twentieth Edition (1998), and Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

RL Reporting Limit.

DF Dilution Factor.

1 Instrument ID: Lachat 8000 Autoanalyzer

2 Instrument ID: Dionex DX-500 IC

Inorganic Chemistry

Field ID: **OW-1R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**

Matrix: **Aqueous**
 Received: **02-06-07 15:40**

Lab ID: **103808-09** Sampled: **02-05-07 13:35** Container: **1 L Plastic** Preservation: **Cool**

Analyte	Result	Units	RL	DF	Volume	Analyzed	QC Batch	Method	Inst	Analyst
Nitrate (as Nitrogen)	BRL	mg/L	0.02	1	5 mL	02-06-07 17:40	NI-3310-W	Lachat 10-107-04-1-C (SM 4500-NO3 F)	1	LJD
Sulfate	0.4	mg/L	0.3	1	5 mL	02-09-07 12:01	IC-0974-W	EPA 9056	2	DDH

Lab ID: **103808-10** Sampled: **02-05-07 13:35** Container: **1 L Plastic** Preservation: **Cool**

Analyte	Result	Units	RL	DF	Volume	Analyzed	QC Batch	Method	Inst	Analyst
Solids, Total Suspended	380	mg/L	10	5	100 mL	02-08-07 07:46	TSS-1327-W	SM 2540 D	4	MW

Lab ID: **103808-11** Sampled: **02-05-07 13:35** Container: **500 mL Plastic** Preservation: **NaOH/Cool**

Analyte	Result	Units	RL	DF	Volume	Analyzed	QC Batch	Method	Inst	Analyst
Cyanide, Total	BRL	mg/L	0.01	1	50 mL	02-08-07 11:15	TCN-1301-W	EPA 9012A	1	DDH

Lab ID: **103808-12** Sampled: **02-05-07 13:35** Container: **1 L Plastic** Preservation: **Cool**

Analyte	Result	Units	RL	DF	Volume	Analyzed	QC Batch	Method	Inst	Analyst
Chlorine, Total Residual	BRL	mg/L	0.2	1	5 mL	02-06-07 19:47	TRC-0526-W	SM 4500-Cl G	3	AG
Chromium, Hexavalent	BRL	mg/L	0.01	1	5 mL	02-06-07 20:50	HC-0297-W	EPA 7196A	1	LJD

Lab ID: **103808-13** Sampled: **02-05-07 13:35** Container: **1 L Amber Glass** Preservation: **H2SO4/Cool**

Analyte	Result	Units	RL	DF	Volume	Analyzed	QC Batch	Method	Inst	Analyst
Oil and Grease, Total	BRL	mg/L	5	1	1000 mL	02-08-07 09:00	HO-0235-W	EPA 1664	4	JBH

Method Reference: Methods for Chemical Analysis of Water and Wastes, US EPA, EPA-600/4-790-020 (Revised 1983), and Methods for the Determination of Inorganic Substances in Environmental Samples, US EPA, EPA/600/R-93/100 (1993), and Standard Methods for the Examination of Water and Wastewater, APHA, Twentieth Edition (1998), and Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- RL Reporting Limit.
- DF Dilution Factor.
- 1 Instrument ID: Lachat 8000 Autoanalyzer
- 2 Instrument ID: Dionex DX-500 IC
- 3 Instrument ID: Milton Roy Spectronic 401
- 4 Instrument ID: Mettler AT 200 Balance

Trace Metals

Field ID: **OW-1R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**

Matrix: **Aqueous**
 Container: **250 mL Plastic**
 Preservation: **HNO3 / Cool**
 Preserved: **02-05-07 13:35**

Laboratory ID: **103808-3**
 Sampled: **02-05-07 13:35**
 Received: **02-06-07 15:40**

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6020A ¹	MB-2547-W	EPA 3010A	02-07-07 07:50	50 mL	ICPMS ELAN 9000	MFP
EPA 6010B ²	MB-2547-W	EPA 3010A	02-07-07 07:50	50 mL	ICP-1 PE 3000	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total		BRL	mg/L	0.005	1	02-07-07 19:01	EPA 6020A ¹
7440-38-2	Arsenic, Total	0.015		mg/L	0.006	1	02-07-07 19:01	EPA 6020A ¹
7440-43-9	Cadmium, Total		BRL	mg/L	0.004	1	02-07-07 14:29	EPA 6010B ²
7440-47-3	Chromium, Total		BRL	mg/L	0.01	1	02-07-07 14:29	EPA 6010B ²
7440-50-8	Copper, Total		BRL	mg/L	0.025	1	02-07-07 14:28	EPA 6010B ²
7439-89-6	Iron, Total	17		mg/L	0.10	1	02-07-07 14:28	EPA 6010B ²
7439-92-1	Lead, Total	0.013		mg/L	0.005	1	02-07-07 14:29	EPA 6010B ²
7440-02-0	Nickel, Total		BRL	mg/L	0.04	1	02-07-07 14:29	EPA 6010B ²
7782-49-2	Selenium, Total		BRL	mg/L	0.05	1	02-07-07 19:01	EPA 6020A ¹
7440-22-4	Silver, Total		BRL	mg/L	0.007	1	02-07-07 14:28	EPA 6010B ²
7440-66-6	Zinc, Total		BRL	mg/L	0.20	1	02-07-07 14:29	EPA 6010B ²
7440-47-3	Chromium, Trivalent		BRL	mg/L	0.01	1	02-07-07 14:29	EPA 6010B ²

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
 DF Dilution Factor.

Trace Metals

Field ID: **MW-1R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**

Matrix: **Aqueous**
 Container: **250 mL Plastic**
 Preservation: **HNO3 / Cool**
 Preserved: **02-05-07 12:50**
 Filtered: **02-05-07 12:50**

Laboratory ID: **103808-14**
 Sampled: **02-05-07 12:50**
 Received: **02-06-07 15:40**

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B ¹	MB-2547-W	EPA 3010A	02-07-07 07:50	50 mL	ICP-1 PE 3000	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved	11		mg/L	0.1	1	02-07-07 14:37	EPA 6010B ¹

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
 DF Dilution Factor.

Trace Metals

Field ID: MW-3
 Project: CFI #70017 Framingham/93-200007.55
 Client: Environmental Compliance Services, Inc.

Matrix: Aqueous
 Container: 250 mL Plastic
 Preservation: HNO3 / Cool

Laboratory ID: 103808-15
 Sampled: 02-05-07 12:10
 Received: 02-06-07 15:40

Preserved: 02-05-07 12:10
 Filtered: 02-05-07 12:10

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B ¹	MB-2547-W	EPA 3010A	02-07-07 07:50	50 mL	ICP-1 PE 3000	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved		BRL	mg/L	0.1	1	02-07-07 14:41	EPA 6010B ¹

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
 DF Dilution Factor.

Trace Metals

Field ID: **MW-4**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**

Matrix: **Aqueous**
 Container: **250 mL Plastic**
 Preservation: **HNO3 / Cool**

Laboratory ID: **103808-16**
 Sampled: **02-05-07 11:00**
 Received: **02-06-07 15:40**

Preserved: **02-05-07 11:00**
 Filtered: **02-05-07 11:00**

<u>Analysis Method</u>	<u>QC Batch ID</u>	<u>Prep Method</u>	<u>Prepared</u>	<u>Sample Volume</u>	<u>Instrument ID</u>	<u>Analyst</u>
EPA 6010B ¹	MB-2547-W	EPA 3010A	02-07-07 07:50	50 mL	ICP-1 PE 3000	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved	7.1		mg/L	0.1	1	02-07-07 14:49	EPA 6010B ¹

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
 DF Dilution Factor.

Trace Metals

Field ID: **MW-5R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**

Matrix: **Aqueous**
 Container: **250 mL Plastic**
 Preservation: **HNO3 / Cool**

Laboratory ID: **103808-17**
 Sampled: **02-05-07 14:30**
 Received: **02-06-07 15:40**

Preserved: **02-05-07 14:30**
 Filtered: **02-05-07 14:30**

<u>Analysis Method</u>	<u>QC Batch ID</u>	<u>Prep Method</u>	<u>Prepared</u>	<u>Sample Volume</u>	<u>Instrument ID</u>	<u>Analyst</u>
EPA 6010B ¹	MB-2547-W	EPA 3010A	02-07-07 07:50	50 mL	ICP-1 PE 3000	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved	2.1		mg/L	0.1	1	02-07-07 14:53	EPA 6010B ¹

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
 DF Dilution Factor.

Trace Metals

Field ID: **MW-6R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**

Matrix: **Aqueous**
 Container: **250 mL Plastic**
 Preservation: **HNO3 / Cool**

Laboratory ID: **103808-18**
 Sampled: **02-05-07 15:40**
 Received: **02-06-07 15:40**

Preserved: **02-05-07 15:40**
 Filtered: **02-05-07 15:40**

<u>Analysis Method</u>	<u>QC Batch ID</u>	<u>Prep Method</u>	<u>Prepared</u>	<u>Sample Volume</u>	<u>Instrument ID</u>	<u>Analyst</u>
EPA 6010B ¹	MB-2547-W	EPA 3010A	02-07-07 07:50	50 mL	ICP-1 PE 3000	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved	19		mg/L	0.1	1	02-07-07 14:56	EPA 6010B ¹

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
 DF Dilution Factor.

Trace Metals

Field ID: **OW-1R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**

Matrix: **Aqueous**
 Container: **250 mL Plastic**
 Preservation: **HNO3 / Cool**

Laboratory ID: **103808-19**
 Sampled: **02-05-07 13:35**
 Received: **02-06-07 15:40**

Preserved: **02-05-07 13:35**
 Filtered: **02-05-07 13:35**

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B ¹	MB-2547-W	EPA 3010A	02-07-07 07:50	50 mL	ICP-1 PE 3000	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved	12		mg/L	0.1	1	02-07-07 14:59	EPA 6010B ¹

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
 DF Dilution Factor.

Trace Metals

Field ID: **Trip Blank**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**

Matrix: **Aqueous**
 Container: **250 mL Plastic**
 Preservation: **HNO3 / Cool**
 Preserved: **02-05-07 00:00**
 Filtered: **02-05-07 00:00**

Laboratory ID: **103808-20**
 Sampled: **02-05-07 00:00**
 Received: **02-06-07 15:40**

<u>Analysis Method</u>	<u>QC Batch ID</u>	<u>Prep Method</u>	<u>Prepared</u>	<u>Sample Volume</u>	<u>Instrument ID</u>	<u>Analyst</u>
EPA 6010B ¹	MB-2547-W	EPA 3010A	02-07-07 07:50	50 mL	ICP-1 PE 3000	MWR

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7439-89-6	Iron, Dissolved		BRL	mg/L	0.1	1	02-07-07 15:03	EPA 6010B ¹

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
 DF Dilution Factor.

Massachusetts DEP VPH Method Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID: **MW-1R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**
 Laboratory ID: **103808-21**
 Sampled: **02-05-07 12:50**
 Received: **02-06-07 15:40**
 Analyzed: **02-07-07 22:08**
 Analyst: **JH**

Matrix: **Aqueous**
 Container: **40 mL VOA Vial**
 Preservation: **HCl/ Cool**
 QC Batch ID: **VG3-2303-W**
 Instrument ID: **GC-3 HP 5890**
 Sample Volume: **5 mL**
 Dilution Factor: **1**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ^o	210		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ^o	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	220		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl tert -butyl Ether ⁱⁱ	11		ug/L	5
71-43-2	Benzene ⁱⁱ	2		ug/L	1
108-88-3	Toluene ⁱⁱ	BRL		ug/L	5
100-41-4	Ethylbenzene †	BRL		ug/L	5
108-38-3 and 106-42-3	meta- Xylene and para -Xylene †	BRL		ug/L	5
95-47-6	ortho- Xylene †	BRL		ug/L	5
91-20-3	Naphthalene	BRL		ug/L	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	46	92 %	70 - 130 %
2,5-Dibromotoluene (FID)	50	45	90 %	70 - 130 %

QA/QC Certification

- | | |
|---|-----|
| 1. Were all QA/QC procedures required by the method followed? | Yes |
| 2. Were all performance/acceptance standards for the required QA/QC procedures achieved? | Yes |
| 3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? | No |

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◇ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊙ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ii Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

Massachusetts DEP VPH Method Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID: MW-3
 Project: CFI #70017 Framingham/93-200007.55
 Client: Environmental Compliance Services, Inc.
 Laboratory ID: 103808-22
 Sampled: 02-05-07 12:10
 Received: 02-06-07 15:40
 Analyzed: 02-07-07 22:48
 Analyst: JH

Matrix: Aqueous
 Container: 40 mL VOA Vial
 Preservation: HCl/ Cool
 QC Batch ID: VG3-2303-W
 Instrument ID: GC-3 HP 5890
 Sample Volume: 5 mL
 Dilution Factor: 1

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons [†] [◊]	28		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons [†] [⊗]	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons [†]	BRL		ug/L	20

Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons [†]	28		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons [†]	BRL		ug/L	20

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl tert-butyl Ether [Ⓜ]	BRL		ug/L	5
71-43-2	Benzene [Ⓜ]	BRL		ug/L	1
108-88-3	Toluene [Ⓜ]	BRL		ug/L	5
100-41-4	Ethylbenzene [‡]	BRL		ug/L	5
108-38-3 and 106-42-3	meta-Xylene and para-Xylene [‡]	BRL		ug/L	5
95-47-6	ortho-Xylene [‡]	BRL		ug/L	5
91-20-3	Naphthalene	BRL		ug/L	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	48	96 %	70 - 130 %
2,5-Dibromotoluene (FID)	50	48	96 %	70 - 130 %

QA/QC Certification

- Were all QA/QC procedures required by the method followed? Yes
- Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
- Were any significant modifications made to the method, as specified in Section 11.3.2.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

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

[◊] n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

[⊗] n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

[Ⓜ] Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

[‡] Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

Massachusetts DEP VPH Method Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID: MW-4
 Project: CFI #70017 Framingham/93-200007.55
 Client: Environmental Compliance Services, Inc.
 Laboratory ID: 103808-23
 Sampled: 02-05-07 11:00
 Received: 02-06-07 15:40
 Analyzed: 02-07-07 23:28
 Analyst: JH

Matrix: Aqueous
 Container: 40 mL VOA Vial
 Preservation: HCl/ Cool
 QC Batch ID: VG3-2303-W
 Instrument ID: GC-3 HP 5890
 Sample Volume: 5 mL
 Dilution Factor: 1

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ◊	BRL		ug/L	20
n-C9 to n-C12 Aliphatic Hydrocarbons † ⊗	BRL		ug/L	20
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	BRL		ug/L	20
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	20

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl tert-butyl Ether ‡	BRL		ug/L	5
71-43-2	Benzene ‡	BRL		ug/L	1
108-88-3	Toluene ‡	BRL		ug/L	5
100-41-4	Ethylbenzene †	BRL		ug/L	5
108-38-3 and 106-42-3	meta-Xylene and para-Xylene †	BRL		ug/L	5
95-47-6	ortho-Xylene †	BRL		ug/L	5
91-20-3	Naphthalene	BRL		ug/L	5

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	48	97 %	70 - 130 %
2,5-Dibromotoluene (FID)	50	48	96 %	70 - 130 %

QA/QC Certification

- | | |
|---|-----|
| 1. Were all QA/QC procedures required by the method followed? | Yes |
| 2. Were all performance/acceptance standards for the required QA/QC procedures achieved? | Yes |
| 3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? | No |

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

- † Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.
- ◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.
- ⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.
- ‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

Massachusetts DEP VPH Method Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID: **MW-5R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**
 Laboratory ID: **103808-24**
 Sampled: **02-05-07 14:30**
 Received: **02-06-07 15:40**
 Analyzed: **02-08-07 00:09**
 Analyst: **JH**

Matrix: **Aqueous**
 Container: **40 mL VOA Vial**
 Preservation: **HCl/ Cool**
 QC Batch ID: **VG3-2303-W**
 Instrument ID: **GC-3 HP 5890**
 Sample Volume: **5 mL**
 Dilution Factor: **5**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ^o	BRL		ug/L	100
n-C9 to n-C12 Aliphatic Hydrocarbons † ^o	BRL		ug/L	100
n-C9 to n-C10 Aromatic Hydrocarbons †	BRL		ug/L	100

Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	2,000		ug/L	100
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	BRL		ug/L	100

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl tert-butyl Ether ††	2,100		ug/L	25
71-43-2	Benzene ††	BRL		ug/L	5
108-88-3	Toluene ††	BRL		ug/L	25
100-41-4	Ethylbenzene †	BRL		ug/L	25
108-38-3 and 106-42-3	meta-Xylene and para-Xylene †	BRL		ug/L	25
95-47-6	ortho-Xylene †	BRL		ug/L	25
91-20-3	Naphthalene	BRL		ug/L	25

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	49	98 %	70 - 130 %
2,5-Dibromotoluene (FID)	50	49	98 %	70 - 130 %

QA/QC Certification

1. Were all QA/QC procedures required by the method followed? Yes
2. Were all performance/acceptance standards for the required QA/QC procedures achieved? Yes
3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? No

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

^o n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

^o n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

†† Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

Massachusetts DEP VPH Method Volatile Petroleum Hydrocarbons by GC/PID/FID

Field ID: MW-6R
 Project: CFI #70017 Framingham/93-200007.55
 Client: Environmental Compliance Services, Inc.
 Laboratory ID: 103808-25
 Sampled: 02-05-07 15:40
 Received: 02-06-07 15:40
 Analyzed: 02-08-07 00:49
 Analyst: JH

Matrix: Aqueous
 Container: 40 mL VOA Vial
 Preservation: HCl/ Cool
 QC Batch ID: VG3-2303-W
 Instrument ID: GC-3 HP 5890
 Sample Volume: 5 mL
 Dilution Factor: 2

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons [†] ◊	1,700		ug/L	40
n-C9 to n-C12 Aliphatic Hydrocarbons [†] ⊗	610		ug/L	40
n-C9 to n-C10 Aromatic Hydrocarbons [†]	1,000		ug/L	40
Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons [†]	1,700		ug/L	40
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons [†]	2,500		ug/L	40

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl tert -butyl Ether [‡]		BRL	ug/L	10
71-43-2	Benzene [‡]	17		ug/L	2
108-88-3	Toluene [‡]	15		ug/L	10
100-41-4	Ethylbenzene [‡]	340		ug/L	10
108-38-3 and 106-42-3	meta- Xylene and para -Xylene [‡]	440		ug/L	10
95-47-6	ortho- Xylene [‡]	24		ug/L	10
91-20-3	Naphthalene	67		ug/L	10

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	48	96 %	70 - 130 %
2,5-Dibromotoluene (FID)	50	47	94 %	70 - 130 %

QA/QC Certification

- | | |
|---|-----|
| 1. Were all QA/QC procedures required by the method followed? | Yes |
| 2. Were all performance/acceptance standards for the required QA/QC procedures achieved? | Yes |
| 3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? | No |

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

◊ n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

⊗ n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

‡ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

‡ Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

**Massachusetts DEP VPH Method
Volatile Petroleum Hydrocarbons by GC/PID/FID**

Field ID: **OW-1R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**
 Laboratory ID: **103808-26**
 Sampled: **02-05-07 13:35**
 Received: **02-06-07 15:40**
 Analyzed: **02-08-07 01:29**
 Analyst: **JH**

Matrix: **Aqueous**
 Container: **40 mL VOA Vial**
 Preservation: **HCl/ Cool**
 QC Batch ID: **VG3-2303-W**
 Instrument ID: **GC-3 HP 5890**
 Sample Volume: **5 mL**
 Dilution Factor: **10**

VPH Ranges	Concentration	Notes	Units	Reporting Limit
n-C5 to n-C8 Aliphatic Hydrocarbons † ^o	2,700		ug/L	200
n-C9 to n-C12 Aliphatic Hydrocarbons † ^o	2,200		ug/L	200
n-C9 to n-C10 Aromatic Hydrocarbons †	3,300		ug/L	200

Unadjusted n-C5 to n-C8 Aliphatic Hydrocarbons †	5,300		ug/L	200
Unadjusted n-C9 to n-C12 Aliphatic Hydrocarbons †	9,100		ug/L	200

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
1634-04-4	Methyl <i>tert</i> -butyl Ether ⁱⁱ	1,900		ug/L	50
71-43-2	Benzene ⁱⁱ	540		ug/L	10
108-88-3	Toluene ⁱⁱ	120		ug/L	50
100-41-4	Ethylbenzene †	520		ug/L	50
108-38-3 and 106-42-3	<i>meta</i> -Xylene and <i>para</i> -Xylene †	3,100		ug/L	50
95-47-6	<i>ortho</i> -Xylene †	53		ug/L	50
91-20-3	Naphthalene	170		ug/L	50

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
2,5-Dibromotoluene (PID)	50	48	96 %	70 - 130 %
2,5-Dibromotoluene (FID)	50	48	96 %	70 - 130 %

QA/QC Certification

- | | |
|---|-----|
| 1. Were all QA/QC procedures required by the method followed? | Yes |
| 2. Were all performance/acceptance standards for the required QA/QC procedures achieved? | Yes |
| 3. Were any significant modifications made to the method, as specified in Section 11.3.2.1? | No |

Method non-conformances indicated above are detailed below on this data report, or in the accompanying project narrative and project quality control report. Release of this data is authorized by the accompanying signed project cover letter. The accompanying cover letter, project narrative and quality control report are considered part of this data report.

Method Reference: Method for the Determination of Volatile Petroleum Hydrocarbons, MA DEP (Revision 1.1, 2004).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

† Hydrocarbon range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range.

^o n-C5 to n-C8 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations.

^o n-C9 to n-C12 Aliphatic Hydrocarbons range data excludes the method target analyte concentrations and the concentration for the n-C9 to n-C10 Aromatic Hydrocarbons range.

ⁱⁱ Analyte elutes in the n-C5 to n-C8 Aliphatic Hydrocarbons range.

† Analyte elutes in the n-C9 to n-C12 Aliphatic Hydrocarbons range.

EPA Method 8260B Volatile Organics by GC/MS

Field ID: **OW-1R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**
 Laboratory ID: **103808-26**
 Sampled: **02-05-07 13:35**
 Received: **02-06-07 15:40**
 Analyzed: **02-07-07 17:30**
 Analyst: **KMC**

Matrix: **Aqueous**
 Container: **40 mL VOA Vial**
 Preservation: **HCl/Cool**
 QC Batch ID: **VM4-3776-W**
 Instrument ID: **MS-4 HP 6890**
 Sample Volume: **25 mL**
 Dilution Factor: **100**

Page: 1 of 2

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
75-71-8	Dichlorodifluoromethane	BRL		ug/L	50
74-87-3	Chloromethane	BRL		ug/L	50
75-01-4	Vinyl Chloride	BRL		ug/L	50
74-83-9	Bromomethane	BRL		ug/L	50
75-00-3	Chloroethane	BRL		ug/L	50
75-69-4	Trichlorofluoromethane	BRL		ug/L	50
60-29-7	Diethyl Ether	BRL		ug/L	200
75-35-4	1,1-Dichloroethene	BRL		ug/L	50
76-13-1	1,1,2-Trichlorotrifluoroethane	BRL		ug/L	500
67-64-1	Acetone	BRL		ug/L	1000
75-15-0	Carbon Disulfide	BRL		ug/L	500
75-09-2	Methylene Chloride	BRL		ug/L	250
156-60-5	<i>trans</i> -1,2-Dichloroethene	BRL		ug/L	50
1634-04-4	Methyl <i>tert</i> -butyl Ether (MTBE)	1,900		ug/L	50
75-34-3	1,1-Dichloroethane	BRL		ug/L	50
594-20-7	2,2-Dichloropropane	BRL		ug/L	50
156-59-2	<i>cis</i> -1,2-Dichloroethene	BRL		ug/L	50
78-93-3	2-Butanone (MEK)	BRL		ug/L	500
74-97-5	Bromochloromethane	BRL		ug/L	50
109-99-9	Tetrahydrofuran (THF)	BRL		ug/L	500
67-66-3	Chloroform	BRL		ug/L	50
71-55-6	1,1,1-Trichloroethane	BRL		ug/L	50
56-23-5	Carbon Tetrachloride	BRL		ug/L	50
563-58-6	1,1-Dichloropropene	BRL		ug/L	50
71-43-2	Benzene	560		ug/L	50
107-06-2	1,2-Dichloroethane	BRL		ug/L	50
79-01-6	Trichloroethene	BRL		ug/L	50
78-87-5	1,2-Dichloropropane	BRL		ug/L	50
74-95-3	Dibromomethane	BRL		ug/L	50
75-27-4	Bromodichloromethane	BRL		ug/L	50
123-91-1	1,4-Dioxane	BRL		ug/L	50000
10061-01-5	<i>cis</i> -1,3-Dichloropropene	BRL		ug/L	50
108-10-1	4-Methyl-2-Pentanone (MIBK)	BRL		ug/L	500
108-88-3	Toluene	120		ug/L	50
10061-02-6	<i>trans</i> -1,3-Dichloropropene	BRL		ug/L	50
79-00-5	1,1,2-Trichloroethane	BRL		ug/L	50
127-18-4	Tetrachloroethene	BRL		ug/L	50
142-28-9	1,3-Dichloropropane	BRL		ug/L	50
591-78-6	2-Hexanone	BRL		ug/L	500
124-48-1	Dibromochloromethane	BRL		ug/L	50
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	50
108-90-7	Chlorobenzene	BRL		ug/L	50
630-20-6	1,1,1,2-Tetrachloroethane	BRL		ug/L	50
100-41-4	Ethylbenzene	600		ug/L	50
108-38-3/106-42-3	<i>meta</i> -Xylene and <i>para</i> -Xylene	3,400		ug/L	50
95-47-6	<i>ortho</i> -Xylene	BRL		ug/L	50

EPA Method 8260B (Continued) Volatile Organics by GC/MS

Field ID: **OW-1R**
 Project: **CFI #70017 Framingham/93-200007.55**
 Client: **Environmental Compliance Services, Inc.**
 Laboratory ID: **103808-26**
 Sampled: **02-05-07 13:35**
 Received: **02-06-07 15:40**
 Analyzed: **02-07-07 17:30**
 Analyst: **KMC**

Matrix: **Aqueous**
 Container: **40 mL VOA Vial**
 Preservation: **HCl/Cool**
 QC Batch ID: **VM4-3776-W**
 Instrument ID: **MS-4 HP 6890**
 Sample Volume: **25 mL**
 Dilution Factor: **100**

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CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
100-42-5	Styrene		BRL	ug/L	50
75-25-2	Bromoform		BRL	ug/L	50
98-82-8	Isopropylbenzene		BRL	ug/L	50
108-86-1	Bromobenzene		BRL	ug/L	50
79-34-5	1,1,2,2-Tetrachloroethane		BRL	ug/L	50
96-18-4	1,2,3-Trichloropropane		BRL	ug/L	50
103-65-1	<i>n</i> -Propylbenzene	64		ug/L	50
95-49-8	2-Chlorotoluene		BRL	ug/L	50
108-67-8	1,3,5-Trimethylbenzene	250		ug/L	50
106-43-4	4-Chlorotoluene		BRL	ug/L	50
98-06-6	<i>tert</i> -Butylbenzene		BRL	ug/L	50
95-63-6	1,2,4-Trimethylbenzene	970		ug/L	50
135-98-8	<i>sec</i> -Butylbenzene		BRL	ug/L	50
541-73-1	1,3-Dichlorobenzene		BRL	ug/L	50
99-87-6	4-Isopropyltoluene		BRL	ug/L	50
106-46-7	1,4-Dichlorobenzene		BRL	ug/L	50
95-50-1	1,2-Dichlorobenzene		BRL	ug/L	50
104-51-8	<i>n</i> -Butylbenzene		BRL	ug/L	50
96-12-8	1,2-Dibromo-3-chloropropane		BRL	ug/L	50
120-82-1	1,2,4-Trichlorobenzene		BRL	ug/L	50
87-68-3	Hexachlorobutadiene		BRL	ug/L	50
91-20-3	Naphthalene	180		ug/L	50
87-61-6	1,2,3-Trichlorobenzene		BRL	ug/L	50
75-65-0	<i>tert</i> -Butyl Alcohol (TBA)		BRL	ug/L	2000
108-20-3	Di-isopropyl Ether (DIPE)		BRL	ug/L	50
637-92-3	Ethyl <i>tert</i> -butyl Ether (ETBE)		BRL	ug/L	50
994-05-8	<i>tert</i> -Amyl Methyl Ether (TAME)	440		ug/L	50

QC Surrogate Compound	Spiked	Measured	Recovery	QC Limits
Dibromofluoromethane	10	10	103 %	70 - 130 %
1,2-Dichloroethane-d ₄	10	9.6	96 %	70 - 130 %
Toluene-d ₈	10	11	105 %	70 - 130 %
4-Bromofluorobenzene	10	11	106 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
 Sample preparation performed by EPA Method 5030B.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

**EPA Method 504.1
EDB and DBCP by GC/ECD**

Field ID:	OW-1R	Matrix:	Aqueous
Project:	CFI #70017 Framingham/93-200007.55	Container:	40 mL VOA Vial
Client:	Environmental Compliance Services, Inc.	Preservation:	Cool
Laboratory ID:	103808-27	QC Batch ID:	PV-0861-E
Sampled:	02-05-07 13:35	Instrument ID:	GC-5 HP 5890
Received:	02-06-07 15:40	Sample Volume:	35 mL
Extracted:	02-08-07 07:30	Final Volume:	1 mL
Analyzed:	02-08-07 23:12	Dilution Factor:	1
Analyst:	CRL		

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
106-93-4	1,2-Dibromoethane (EDB)		BRL	ug/L	0.02
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)		BRL	ug/L	0.02

Method Reference: Methods for the Determination of Organic Compounds in Drinking Water, Supplement III, US EPA, EPA-600/R-95/131 (1995). Method Revision 1.1.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Groundwater Analytical, Inc.
Client Project ID: Groundwater Analytical, Inc. Sampling
Client Sample ID: OW-1R
Date Sampled: 02/05/07 13:35
Percent Solids: N/A

ESS Laboratory Work Order: 0702109
ESS Laboratory Sample ID: 0702109-01
Sample Matrix: Ground Water

3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>RCGW1</u>	<u>Limit</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>L/V</u>	<u>F/V</u>
Mercury	ND	ug/L	0.5	2	7470A		1	JP	02/10/07	20	40

Project Narrative

Project: CFI #70017 Framingham/93-200007.55
Client: Environmental Compliance Services, Inc.

Lab ID: 103808
Received: 02-06-07 15:40

A. Documentation and Client Communication

The following documentation discrepancies, and client changes or amendments were noted for this project:

1. Sample identified as 'OW-1R' was also analyzed for Dissolved Iron, per Stuart Saine, 02-07-07.

B. Method Modifications, Non-Conformances and Observations

The sample(s) in this project were analyzed by the references analytical method(s), and no method modifications, non-conformances or analytical issues were noted, except as indicated below:

1. EPA 6010B Note: Samples 103808-03,-14,-15,-16,-17,-18, and -19. Samples were analyzed for selected target analytes, as requested by client.
2. EPA 8260B Non-conformance: Sample 103808-26. Laboratory control sample (LCS) analyte Acetone was above recommended recovery limits for QC batch VM4-3776-W.
3. EPA 8260B Note: Sample 103808-26. Sample was diluted prior to analysis. Dilution was required to keep all target analytes within calibration.
4. Samples 103808-14 through -19 for Dissolved Iron analysis were not received filtered. The samples were filtered and preserved with HNO₃ upon receipt by the laboratory.

Quality Assurance/Quality Control

A. Program Overview

Groundwater Analytical conducts an active Quality Assurance program to ensure the production of high quality, valid data. This program closely follows the guidance provided by *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans*, US EPA QAMS-005/80 (1980), and *Test Methods for Evaluating Solid Waste*, US EPA, SW-846, Update III (1996).

Quality Control protocols include written Standard Operating Procedures (SOPs) developed for each analytical method. SOPs are derived from US EPA methodologies and other established references. Standards are prepared from commercially obtained reference materials of certified purity, and documented for traceability.

Quality Assessment protocols for most organic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. All samples, standards, blanks, laboratory control samples, matrix spikes and sample duplicates are spiked with internal standards and surrogate compounds. All instrument sequences begin with an initial calibration verification standard and a blank; and excepting GC/MS sequences, all sequences close with a continuing calibration standard. GC/MS systems are tuned to appropriate ion abundance criteria daily, or for each 12 hour operating period, whichever is more frequent.

Quality Assessment protocols for most inorganic analyses include a minimum of one laboratory control sample, one method blank, one matrix spike sample, and one sample duplicate for each sample preparation batch. Standard curves are derived from one reagent blank and four concentration levels. Curve validity is verified by standard recoveries within plus or minus ten percent of the curve.

B. Definitions

Batches are used as the basic unit for Quality Assessment. A Batch is defined as twenty or fewer samples of the same matrix which are prepared together for the same analysis, using the same lots of reagents and the same techniques or manipulations, all within the same continuum of time, up to but not exceeding 24 hours.

Laboratory Control Samples are used to assess the accuracy of the analytical method. A Laboratory Control Sample consists of reagent water or sodium sulfate spiked with a group of target analytes representative of the method analytes. Accuracy is defined as the degree of agreement of the measured value with the true or expected value. Percent Recoveries for the Laboratory Control Samples are calculated to assess accuracy.

Method Blanks are used to assess the level of contamination present in the analytical system. Method Blanks consist of reagent water or an aliquot of sodium sulfate. Method Blanks are taken through all the appropriate steps of an analytical method. Sample data reported is not corrected for blank contamination.

Surrogate Compounds are used to assess the effectiveness of an analytical method in dealing with each sample matrix. Surrogate Compounds are organic compounds which are similar to the target analytes of interest in chemical behavior, but which are not normally found in environmental samples. Percent Recoveries are calculated for each Surrogate Compound.

**Quality Control Report
Laboratory Control Sample**

Category: **Inorganic Chemistry**
Matrix: **Aqueous**

Analyte	Units	Spiked	Measured	Recovery	QC Limits	Analyzed	QC Batch	Method	Inst	Analyst
Sulfate	mg/L	8	8	100 %	80 - 120 %	02-07-07 14:47	IC-0972-W	EPA 9056	2	DDH
Solids, Total Suspended	mg/L	92	88	96 %	80 - 120 %	02-08-07 07:46	TSS-1327-W	SM 2540 D	4	MW
Chlorine, Total Residual	mg/L	1.0	0.9	92 %	80 - 120 %	02-06-07 19:47	TRC-0526-W	SM 4500-Cl G	3	AG
Nitrite (as Nitrogen)	mg/L	0.50	0.52	103 %	80 - 120 %	02-06-07 17:10	NI-3310-W	Lit Nat 10-107-04-1-C (SM 4500-NO3 F)	1	LJD
Nitrate (as Nitrogen)	mg/L	0.50	0.49	97 %	80 - 120 %	02-06-07 17:10	NI-3310-W	Lit Nat 10-107-04-1-C (SM 4500-NO3 F)	1	LJD
Oil and Grease, Total	mg/L	40	34	85 %	78 - 114 %	02-08-07 09:00	HO-0235-W	EPA 1664	4	JBH

Method Reference: Methods for Chemical Analysis of Water and Wastes, US EPA, EPA-600/4-790-020 (Revised 1983), and Methods for the Determination of Inorganic Substances in Environmental Samples, US EPA, EPA/600/R-93/100 (1993), and Standard Methods for the Examination of Water and Wastewater, APHA, Twentieth Edition (1998), and Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

- 1 Instrument ID: Lachat 8000 Autoanalyzer
- 2 Instrument ID: Dionex DX-500 IC
- 3 Instrument ID: Milton Roy Spectronic 401
- 4 Instrument ID: Mettler AT 200 Balance

**Quality Control Report
Laboratory Control Samples**

Category: **Inorganics**
Matrix: **Aqueous**
Units: **mg/L**

Sample Type	Method	QC Batch ID	Prep Method	Prepared	Analyzed	Instrument ID	Analyst
LCS	EPA 7196A	HC-0297-W	EPA 7196A	2/6/2007 20:00	2/6/2007 20:47	Lachat 8000 Autoanalyzer	LJD
LCS D	EPA 7196A	HC-0297-W	EPA 7196A	2/6/2007 20:00	2/6/2007 20:48	Lachat 8000 Autoanalyzer	LJD

Analyte	LCS			LCS Duplicate				QC Limits		Method
	Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	LCS	RPD	
Chromium, Hexavalent	0.10	0.10	101%	0.10	0.10	103%	1 %	80-120%	20 %	EPA 7196A

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised (1983), and
Methods for the Determination of Metals in Environmental Samples, Supplement I, EPA-600/R-94-111,
(1994), and 40 C.F.R. 136, Appendix C (1990).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology,
or alternatively based upon the historical average recovery plus or minus three standard deviation units.

Laboratory Control Samples

Category: **Inorganics**
 Matrix: **Aqueous**
 Units: **mg/L**

Sample Type	Method	QC Batch ID	Prep Method	Prepared	Analyzed	Instrument ID	Analyst
LCS	EPA 9012A	TCN-1301-W	EPA 9012A	2/7/2007 12:00	2/8/2007 11:13	Lachat 8000 Autoanalyzer	DDH
LCSD	EPA 9012A	TCN-1301-W	EPA 9012A	2/7/2007 12:00	2/8/2007 11:14	Lachat 8000 Autoanalyzer	DDH

Analyte	LCS			LCS Duplicate				QC Limits		Method
	Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	LCS	RPD	
Cyanide, Total	0.45	0.47	105%	0.45	0.47	105%	0 %	80-120%	20 %	EPA 9012A

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
 Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised (1983), and
 Methods for the Determination of Metals in Environmental Samples, Supplement I, EPA-600/R-94-111,
 (1994), and 40 C.F.R. 136, Appendix C (1990).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology,
 or alternatively based upon the historical average recovery plus or minus three standard deviation units.

**Quality Control Report
Method Blank**

Category: **Inorganic Chemistry**
Matrix: **Aqueous**

Analyte	Result	Units	RL	Analyzed	QC Batch	Method	Inst	Analyst
Sulfate	BRL	mg/L	3	02-07-07 14:47	IC-0972-W	EPA 9056	2	DDH
Solids, Total Suspended	BRL	mg/L	2	02-08-07 07:46	TSS-1327-W	SM 2540 D	4	MW
Chlorine, Total Residual	BRL	mg/L	0.2	02-06-07 19:47	TRC-0526-W	SM 4500-Cl G	3	AG
Nitrite (as Nitrogen)	BRL	mg/L	0.02	02-06-07 17:10	NI-3310-W	Lachat 10-107-04-1-C (SM 4500-NO3 F)	1	LJD
Nitrate (as Nitrogen)	BRL	mg/L	0.02	02-06-07 17:10	NI-3310-W	Lachat 10-107-04-1-C (SM 4500-NO3 F)	1	LJD
Chromium, Hexavalent	BRL	mg/L	0.01	02-06-07 20:47	HC-0297-W	EPA 7196A	1	LJD
Oil and Grease, Total	BRL	mg/L	5	02-08-07 09:00	HO-0235-W	EPA 1664	4	JBH
Cyanide, Total	BRL	mg/L	0.01	02-08-07 11:13	TCN-1301-W	EPA 9012A	1	DDH

Method Reference: Methods for Chemical Analysis of Water and Wastes, US EPA, EPA-600/4-790-020 (Revised 1983), and Methods for the Determination of Inorganic Substances in Environmental Samples, US EPA, EPA/600/R-93/100 (1993), and Standard Methods for the Examination of Water and Wastewater, APHA, Twentieth Edition (1998), and Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations:

- BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
- RL Reporting Limit.
- 1 Instrument ID: Lachat 8000 Autoanalyzer
- 2 Instrument ID: Dionex DX-500 IC
- 3 Instrument ID: Milton Roy Spectronic 401
- 4 Instrument ID: Mettler AT 200 Balance

**Quality Control Report
Laboratory Control Sample**

Category: **EPA Method 8011**
 QC Batch ID: **PV-0861-E**
 Matrix: **Aqueous**
 Units: **ug/L**

Instrument ID: **GC-5 HP 5890**
 Extracted: **02-08-07 10:30**
 Analyzed: **02-08-07 14:02**
 Analyst: **CRL**

CAS Number	Analyte	Spiked	Measured		Recovery		QC Limits
			1st Column	2nd Column	1st Column	2nd Column	
106-93-4	1,2-Dibromoethane (EDB)	0.20	0.21	0.22	105 %	108 %	70 - 130 %
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	0.20	0.20	0.21	99 %	104 %	70 - 130 %

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

**Quality Control Report
Method Blank**

Category: EPA Method 8011
QC Batch ID: PV-0861-E
Matrix: Aqueous

Instrument ID: GC-5 HP 5890
Extracted: 02-08-07 10:30
Analyzed: 02-08-07 15:45
Analyst: CRL

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit
106-93-4	1,2-Dibromoethane (EDB)	BRL		ug/L	0.02
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	BRL		ug/L	0.02

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

Quality Control Report Laboratory Control Samples

Category: **Metals**
Matrix: **Aqueous**
Units: **mg/L**

Sample Type	Method	QC Batch ID	Prep Method	Prepared	Analyzed	Instrument ID	Analyst
LCS	EPA 6010B	MB-2547-WL	EPA 3010A	02-07-07 07:50	02-07-07 18:51	ICP-1 PE3000	MWR
LCSD	EPA 6010B	MB-2547-WL	EPA 3010A	02-07-07 07:50	02-07-07 14:25	ICP-1 PE3000	MWR
LCS	EPA 6020A	MB-2547-WL	EPA 3010A	02-07-07 07:50	02-07-07 18:51	ICPMS Elan9000	MFP
LCSD	EPA 6020A	MB-2547-WL	EPA 3010A	02-07-07 07:50	02-07-07 14:25	ICPMS Elan9000	MFP

CAS Number	Analyte	LCS			LCS Duplicate				QC Limits		Method
		Spiked	Measured	Recovery	Spiked	Measured	Recovery	RPD	LCS	RPD	
7440-36-0	Antimony	5.0	5.7	114%	5.0	4.9	97%	8 %	80-120 %	20 %	EPA 6020A
7440-38-2	Arsenic	5.0	5.8	116%	5.0	5.0	100%	7 %	80-120 %	20 %	EPA 6020A
7440-43-9	Cadmium	1.0	1.0	97%	1.0	1.0	98%	1 %	80-120 %	20 %	EPA 6010B
7440-47-3	Chromium	1.0	1.0	98%	1.0	1.0	98%	0 %	80-120 %	20 %	EPA 6010B
7440-50-8	Copper	1.0	1.0	97%	1.0	1.0	97%	0 %	80-120 %	20 %	EPA 6010B
7439-89-6	Iron	5.0	5.2	104%	5.0	5.2	104%	0 %	80-120 %	20 %	EPA 6010B
7439-92-1	Lead	5.0	4.9	97%	5.0	4.9	98%	1 %	80-120 %	20 %	EPA 6010B
7440-02-0	Nickel	1.0	1.0	99%	1.0	1.0	99%	0 %	80-120 %	20 %	EPA 6010B
7782-49-2	Selenium	5.0	4.8	96%	5.0	4.8	95%	1 %	80-120 %	20 %	EPA 6020A
7440-22-4	Silver	1.0	1.0	98%	1.0	1.0	98%	0 %	80-120 %	20 %	EPA 6010B
7440-66-6	Zinc	1.0	0.9	94%	1.0	0.9	94%	0 %	80-120 %	20 %	EPA 6010B

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: All calculations performed prior to rounding. Quality Control Limits are defined by the methodology, or alternatively based upon the historical average recovery plus or minus three standard deviation units.

Quality Control Report Method Blank

Category: **Metals**
Matrix: **Aqueous**

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Volume	Instrument ID	Analyst
EPA 6010B	MB-2547-WB	EPA 3010A	02-07-07 07:50	50 mL	ICP-1 PE3000	MWR
EPA 6020A	MB-2547-WB	EPA 3010A	02-07-07 07:50	50 mL	ICPMS ELN9000	MFP

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony		BRL	mg/L	0.006	1	02-07-07 18:47	EPA 6020A
7440-38-2	Arsenic		BRL	mg/L	0.005	1	02-07-07 18:47	EPA 6020A
7440-43-9	Cadmium		BRL	mg/L	0.005	1	02-07-07 14:20	EPA 6010B
7440-47-3	Chromium		BRL	mg/L	0.01	1	02-07-07 14:20	EPA 6010B
7440-50-8	Copper		BRL	mg/L	0.025	1	02-07-07 14:20	EPA 6010B
7439-89-6	Iron		BRL	mg/L	0.10	1	02-07-07 14:20	EPA 6010B
7439-92-1	Lead		BRL	mg/L	0.005	1	02-07-07 14:20	EPA 6010B
7440-02-0	Nickel		BRL	mg/L	0.04	1	02-07-07 14:20	EPA 6010B
7782-49-2	Selenium		BRL	mg/L	0.05	1	02-07-07 14:20	EPA 6020A
7440-22-4	Silver		BRL	mg/L	0.007	1	02-07-07 14:20	EPA 6010B
7440-66-6	Zinc		BRL	mg/L	0.20	1	02-07-07 14:20	EPA 6010B

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.
DF Dilution Factor.

Certifications and Approvals

Groundwater Analytical maintains environmental laboratory certification in a variety of states. Copies of our current certificates may be obtained from our website:

<http://www.groundwateranalytical.com/qualifications.htm>

CONNECTICUT, Department of Health Services, PH-0586

Categories: Potable Water, Wastewater, Solid Waste and Soil
http://www.dph.state.ct.us/BRS/Environmental_Lab/OutStateLabList.htm

FLORIDA, Department of Health, Bureau of Laboratories, E87643

Categories: SDWA, CWA, RCRA/CERCLA
<http://www.floridadep.org/labs/qa/dohforms.htm>

MAINE, Department of Human Services, MA103

Categories: Drinking Water and Wastewater
<http://www.state.me.us/dhs/eng/water/Compliance.htm>

MASSACHUSETTS, Department of Environmental Protection, M-MA-103

Categories: Potable Water and Non-Potable Water
<http://www.state.ma.us/dep/bspt/wes/files/certlabs.pdf>

NEW HAMPSHIRE, Department of Environmental Services, 202703

Categories: Drinking Water and Wastewater
<http://www.des.state.nh.us/asp/NHELAP/labsview.asp>

NEW YORK, Department of Health, 11754

Categories: Potable Water, Non-Potable Water and Solid Waste
<http://www.wadsworth.org/labcert/elap/comm.html>

PENNSYLVANIA, Department of Environmental Protection, 68-665

Environmental Laboratory Registration (Non-drinking water and Non-wastewater)
<http://www.dep.state.pa.us/Labs/Registered/>

RHODE ISLAND, Department of Health, 54

Categories: Surface Water, Air, Wastewater, Potable Water, Sewage
http://www.healthri.org/labs/labsCT_MA.htm

U.S. Department of Agriculture, Soil Permit, S-53921

Foreign soil import permit

VERMONT, Department of Environmental Conservation, Water Supply Division

Category: Drinking Water
<http://www.vermontdrinkingwater.org/wsops/labtable.PDF>

