



WHERE BUSINESS AND THE ENVIRONMENT CONVERGE



607 North Avenue, Suite II, Wakefield, MA 01880 tel 781.246.8897 fax 781.246.8950 www.ecsconsult.com

March 23, 2015
ECS Project #95-217492

U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code OEP06-4
Boston, Massachusetts 02109-3912
ATTN: Remediation General Permit NOI Processing

RE: Remediation General Permit – Notice of Intent
Mobil Station #1464
845 Moody Street
Waltham, Massachusetts 02453

To Whom It May Concern:

At the request of Global Companies LLC (Global), Environmental Compliance Services, Inc. (ECS) is submitting the attached Remediation General Permit (RGP) Notice of Intent (NOI) for the above-referenced location, referred to as the site. Global is currently in the process of planning for construction dewatering activities that will be taking place at the property located at 845 Moody Street in Waltham, Massachusetts (here-in-after referred to as the “Site”). The construction dewatering activities will be taking place during the excavation, removal and replacement of the current underground storage tank (UST) system at the Site. Global anticipates that construction dewatering activities will begin on or about May 11, 2015 and will last for approximately 40 days. The RGP NOI, along with dilution factor calculations, is included in Attachment I. A Site Location Map, Site Plan, Discharge Location Plan and System Flow Diagram are provided as Figures 1 through 4, respectively.

Based on previous investigations conducted at the Site, the average depth to groundwater beneath the Site ranges from approximately 5 to 9 feet (ft) below ground surface (bgs); however, soil excavation to a depth of approximately 15 ft bgs will be required for the UST installation. As such, temporary dewatering will be required to facilitate the UST removal/installation activities.

The Site is the location of a previous subsurface release of petroleum hydrocarbons that was reported to the Massachusetts Department of Environmental Protection (MassDEP) in January 1991. At that time, the MassDEP assigned release tracking number (RTN) 3-3237 to the condition. A Class A-2 Response Action Outcome (RAO) Statement was subsequently submitted to MassDEP in February 1997, indicating that remedial actions had been conducted, a Permanent Solution had been achieved and a the release condition associated with MassDEP RTN did not pose a significant risk of harm to human health or the environment.

On March 12, 2015 ECS personnel visited the Site in order to collect groundwater samples from an existing groundwater monitoring well located immediately adjacent to the current UST system (designated NE UST MW), in the proposed soil excavation area. Per RGP Appendix III, the groundwater samples were analyzed for parameters applicable to Category I, Subcategories A (gasoline only sites) and B (Fuel Oils and Other Oil Sites). The laboratory analytical report for the groundwater samples collected on March 12, 2015 is included in Attachment II.

According to the Massachusetts Geographical Information System (MassGIS) and the tables and maps shown in Appendix I of the RGP, the Site and discharge areas are not located within an Area of Critical Environmental Concern (ACEC) or Habitats of Rare Wetland Wildlife. A review of information on the U.S. Fish and Wildlife Service website indicates that the project will not impact federally-listed threatened or endangered species, and no further coordination with the U.S. Fish and Wildlife Service was necessary. A copy of the “no species present” letter is included in Attachment III. Additionally, there are no structures located at the Site that are listed on the National Register of Historic Places. A list of structures on Moody Street in Waltham, MA with designation on the National Register is included in Attachment IV.

If you have any questions, or require additional information, please contact the undersigned.

Sincerely,
ENVIRONMENTAL COMPLIANCE SERVICES, INC.



Matthew Carey
Senior Project Manger

FIGURES:

Figure 1	Site Locus
Figure 2	Site Plan
Figure 3	Discharge Location Plan
Figure 4	System Flow Diagram

ATTACHMENTS:

Attachment I	Remediation General Permit Notice of Intent
Attachment II	Laboratory Analytical Report
Attachment III	Endangered Species Act Eligibility
Attachment IV	National Historic Preservation Act Eligibility

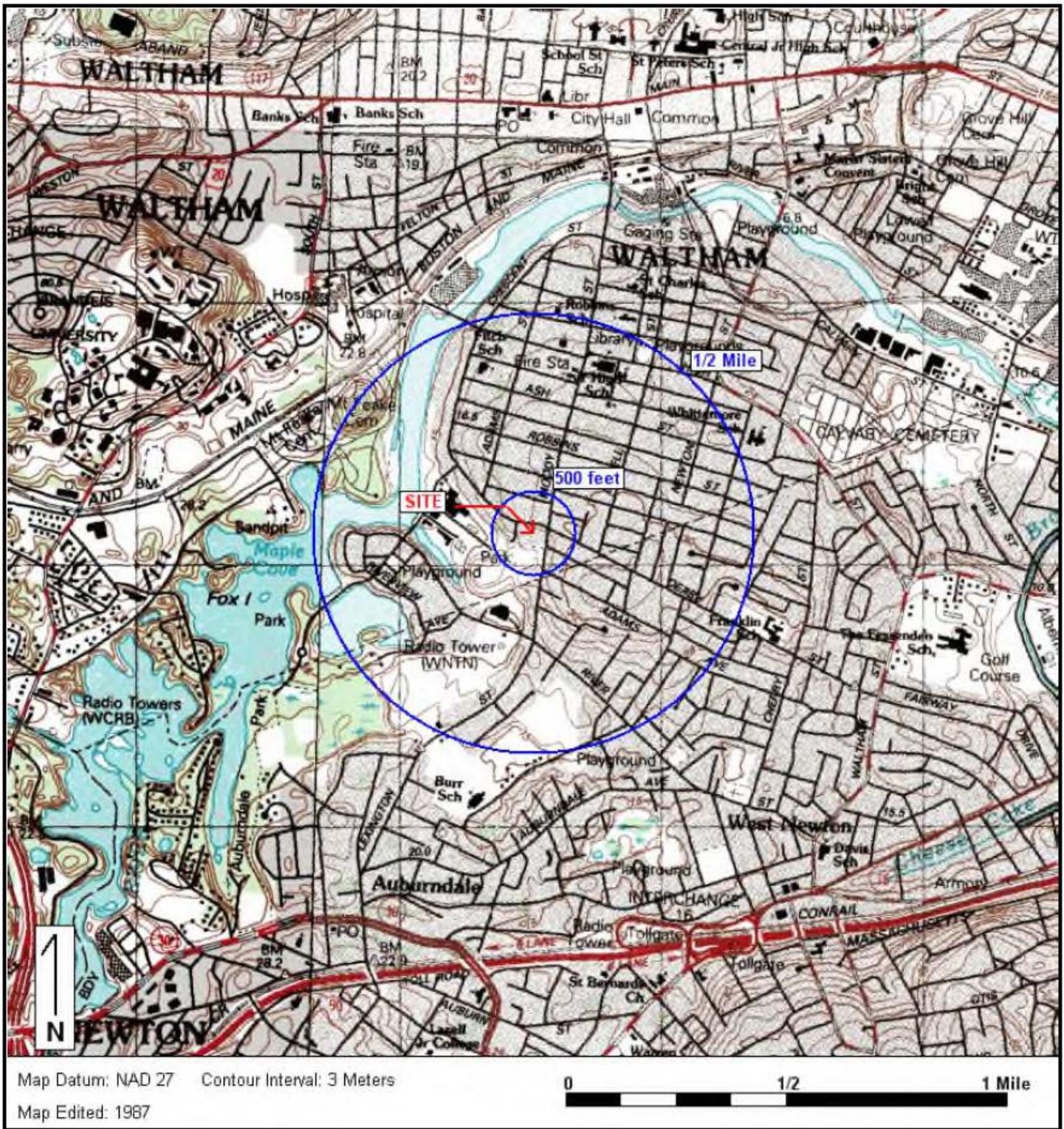
FIGURES



Environmental Compliance Services, Inc.
10 State Street
Woburn, MA 01801
Phone 781.246.8897 Fax 781.246.8950
www.ecsconsult.com

Mobil #1464 845 Moody Street Waltham MA
845 Moody Street
Waltham, MA 02453

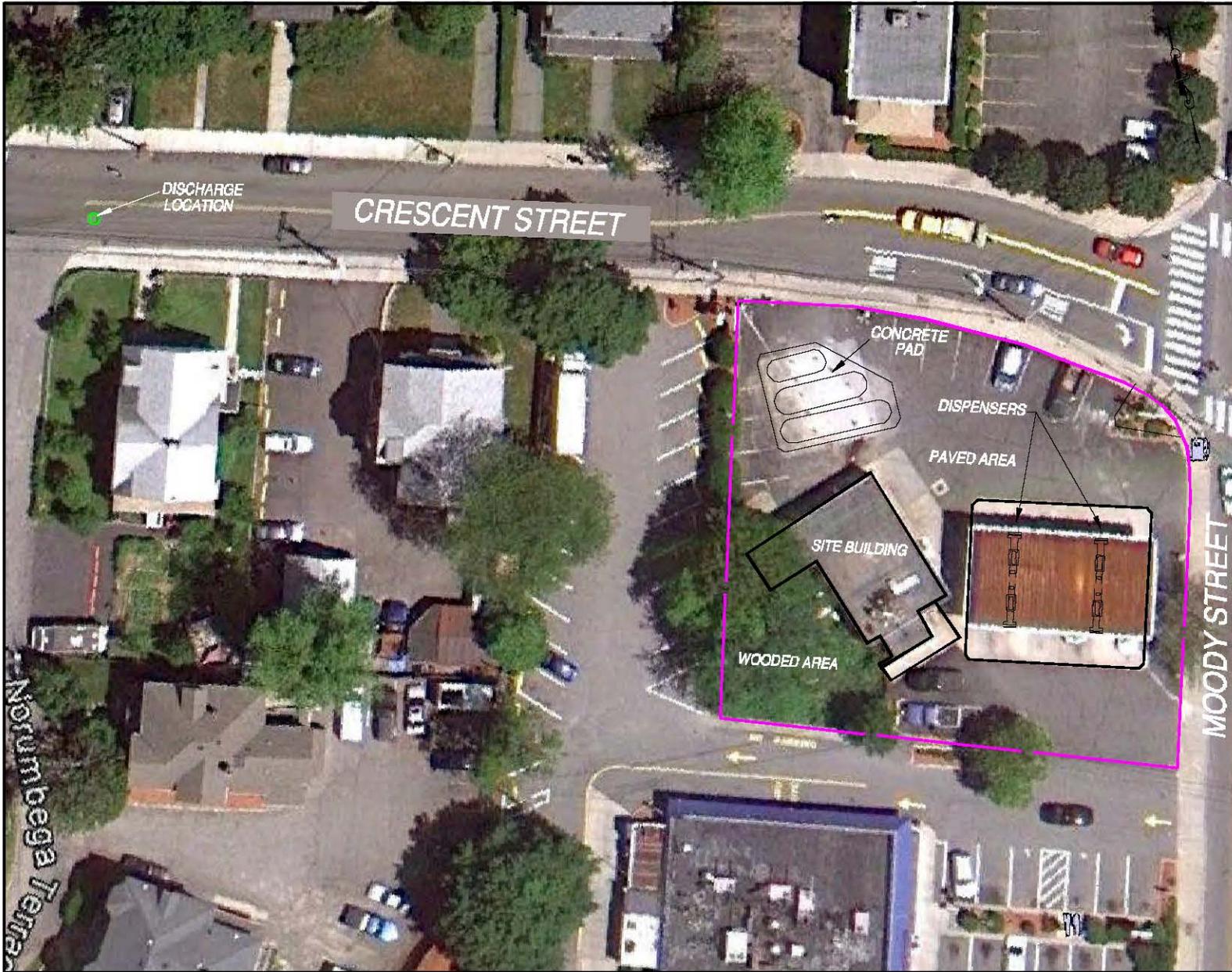
Figure 1: SITE LOCUS



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

Lat/Lon: 42° 21' 42" NORTH, 71° 14' 23" WEST - UTM Coordinates: 19 315556.28 EAST / 4692347.5 NORTH

Generated By: Rick Starodaj



Legend

- Approximate Property Line
- Sanitary Sewer Line
- Storm Sewer Line
- Water Line
- Natural Gas Line
- Overhead Electric Line
- Manhole
- Catchbasin
- Water Gate
- Fire Hydrant
- Utility Pole
- Soil Boring
- Monitoring Well
- Discharge Location

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.

Horizontal, and vertical locations of wells, and selected site features determined through measurements made by representatives of ECS.



10 State Street • Waltham, Massachusetts 01801
Phone: 781-848-1897 Fax: 781-848-8980

PROJECT:

Mobil No. 1464
845 Moody Street
Waltham, Massachusetts

TITLE:

Site Plan

CLIENT:

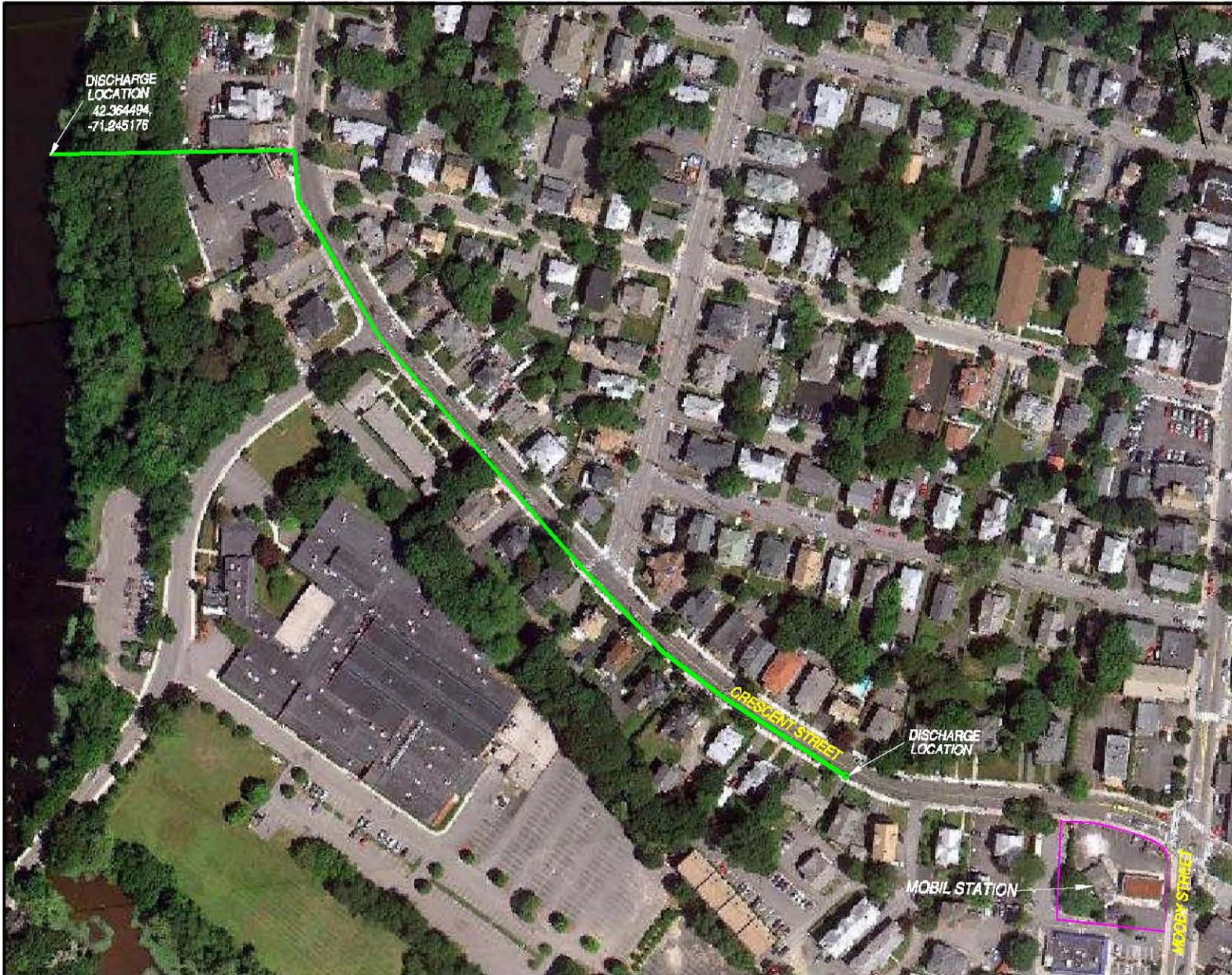
Global Companies LLC

DRAWING SCALE:



COMPUTER CAPABLE: 95-2174925.dwg

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
MJC	---	NC	SD
SCALE:	DATE:	JOB NO:	FIGURE NO:
1" = 30ft	June 2012	95-217492	2



Legend

- Approximate Property Line
- Sanitary Sewer Line
- Storm Sewer Line
- Water Line
- Natural Gas Line
- Overhead Electric Line
- Manhole
- Catchbasin
- Water Gate
- Fire Hydrant
- Utility Pole
- Soil Boring
- Monitoring Well
- Discharge Location

General Notes:

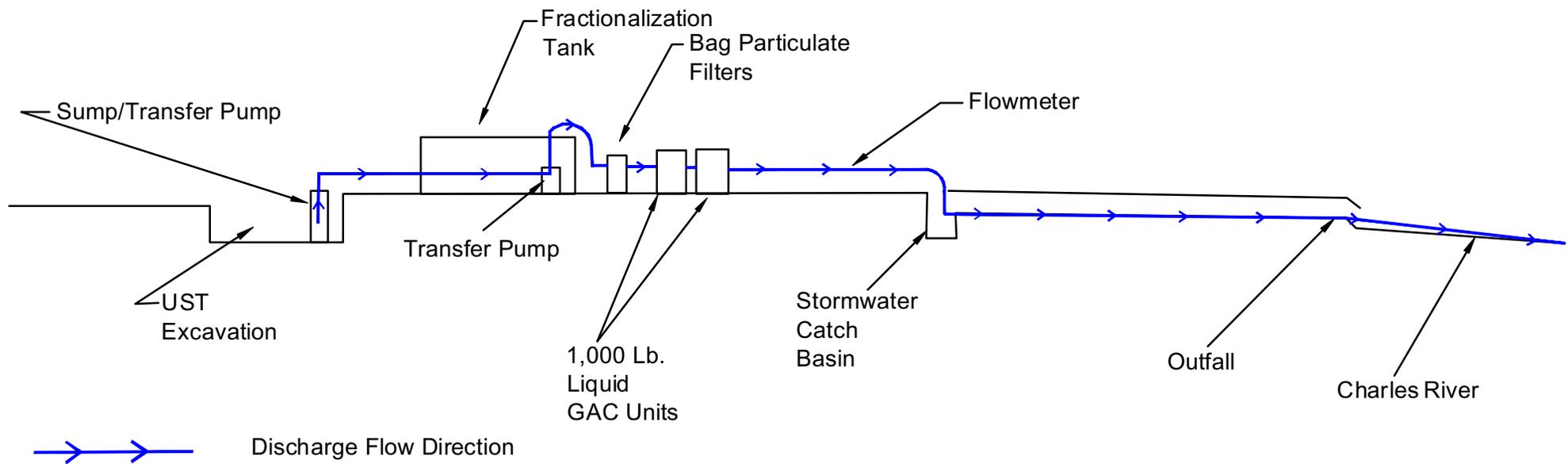
All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Horizontal, and vertical locations of wells, and selected site features determined through measurements made by representatives of ECS.



10 State Street • Waltham, Massachusetts 01801
Phone: 781-846-1897 Fax: 781-846-8980

PROJECT:	Mobil No. 1464 845 Moody Street Waltham, Massachusetts		
TITLE:	Discharge Location Plan		
CLIENT:	Global Companies LLC		
DRAWING SCALE:			
EDUCATION:	COMPUTER CAPABLE: 95-2174925.DWG		
DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
MJC	---	NC	SD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=60'	June 2012	95-217492	3



10 State Street • Woburn, MA 01801
 Phone: 781-240-0807 Fax: 617-769-3830
 www.ecsconsult.com

REVISIONS		
No.	Date	Description

PROJECT:
Mobil Station No. 1464
 845 Moody Street
 Waltham, Massachusetts

TITLE:
System Flow Diagram

COMPUTER CADFILE : 95-220730			
DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
NC	NC	NB	NB
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
NTS	12/30/2013	220730	4

ATTACHMENT I

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

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

a) Name of facility/site : Waltham Mobil #1464		Facility/site mailing address:			
Location of facility/site :	Facility SIC code(s):	Street:			
longitude: 71.239394	5541	845 Moody Street			
latitude: 42.361618					
b) Name of facility/site owner:		Town: Waltham			
Email address of facility/site owner:		State:	Zip:	County:	
scharron@globalp.com		Massachusetts	02453	Middlesex	
Telephone no. of facility/site owner:					
(781) 786-6320					
Fax no. of facility/site owner:		Owner is (check one): 1. Federal <input type="radio"/> 2. State/Tribal <input type="radio"/>			
		3. Private <input checked="" type="radio"/> 4. Other <input type="radio"/> if so, describe:			
Address of owner (if different from site):					
Street: 800 South Street, Suite 500					
Town:	State:	Zip:	County:		
Waltham	MA	02454	Middlesex		
c) Legal name of operator :		Operator telephone no:			
Global Companies LLC		(781) 786-6320			
		Operator fax no.:	Operator email:		
			scharron@globalp.com		
Operator contact name and title:		Steven Charron - Environmental Manager			
Address of operator (if different from owner):		Street:			
Town:	State:	Zip:	County:		

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

1. Has a prior NPDES permit exclusion been granted for the discharge? Y N , if Y, number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge?
Y N , if Y, date and tracking #:
3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Y N
4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y N

e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y N

If Y, please list:

1. site identification # assigned by the state of NH or MA:
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:

f) Is the site/facility covered by any other EPA permit, including:

1. Multi-Sector General Permit? Y N ,
if Y, number:
2. Final Dewatering General Permit? Y N ,
if Y, number:
3. EPA Construction General Permit? Y N ,
if Y, number:
4. Individual NPDES permit? Y N ,
if Y, number:
5. any other water quality related individual or general permit? Y
N , if Y, number:

g) Is the site/facility located within or does it discharge to an Area of Critical Environmental Concern (ACEC)? Y N

h) Based on the facility/site information and any historical sampling data, identify the sub-category into which the potential discharge falls.

<u>Activity Category</u>	<u>Activity Sub-Category</u>
I - Petroleum Related Site Remediation	A. Gasoline Only Sites <input checked="" type="checkbox"/> B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) <input checked="" type="checkbox"/> C. Petroleum Sites with Additional Contamination <input type="checkbox"/>
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites <input type="checkbox"/> B. VOC Sites with Additional Contamination <input type="checkbox"/> C. Primarily Heavy Metal Sites <input type="checkbox"/>
III - Contaminated Construction Dewatering	A. General Urban Fill Sites <input type="checkbox"/> B. Known Contaminated Sites <input type="checkbox"/>

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites <input type="checkbox"/> B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites <input type="checkbox"/> C. Hydrostatic Testing of Pipelines and Tanks <input type="checkbox"/> D. Long-Term Remediation of Contaminated Sumps and Dikes <input type="checkbox"/> E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) <input type="checkbox"/>
---------------------------------------	---

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as necessary) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:	
The gasoline underground storage tanks (USTs) at the station are being removed and replaced. Excavation dewatering activities will be required during the removal and replacement of the USTs. The discharge is associated with the excavation dewatering activities.	
b) Provide the following information about each discharge:	
1) Number of discharge points: <input type="text" value="1"/>	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow <input type="text" value="0.168"/> Is maximum flow a design value ? Y <input type="radio"/> N <input checked="" type="radio"/> Average flow (include units) <input type="text" value="0.117 ft3/sec"/> Is average flow a design value or estimate? <input type="text" value="estimate"/>
3) Latitude and longitude of each discharge within 100 feet:	
pt.1: lat. <input type="text" value="42.364494"/> long. <input type="text" value="-71.245176"/>	pt.2: lat. <input type="text"/> long. <input type="text"/>
pt.3: lat. <input type="text"/> long. <input type="text"/>	pt.4: lat. <input type="text"/> long. <input type="text"/>
pt.5: lat. <input type="text"/> long. <input type="text"/>	pt.6: lat. <input type="text"/> long. <input type="text"/>
pt.7: lat. <input type="text"/> long. <input type="text"/>	pt.8: lat. <input type="text"/> long. <input type="text"/> etc.
4) If hydrostatic testing, total volume of the discharge (gals): <input type="text" value="N/A"/>	5) Is the discharge intermittent <input checked="" type="radio"/> or seasonal <input type="radio"/> ? Is discharge ongoing? Y <input type="radio"/> N <input checked="" type="radio"/>
c) Expected dates of discharge (mm/dd/yy): start <input type="text" value="5/11/2015"/> end <input type="text" value="6/19/2015"/>	
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). <input type="text" value="See flow schematic included as Figure 4."/>	

3. Contaminant information.

a) Based on the sub-category selected (see Appendix III), indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (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)
1. Total Suspended Solids (TSS)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	SM21-22 2540	5,000	16,000	6.57	16,000	4.58
2. Total Residual Chlorine (TRC)		<input type="checkbox"/>	<input type="checkbox"/>								
3. Total Petroleum Hydrocarbons (TPH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8100	200	0	0	0	0
4. Cyanide (CN)	57125	<input type="checkbox"/>	<input type="checkbox"/>								
5. Benzene (B)	71432	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8260	1	0	0	0	0
6. Toluene (T)	108883	<input type="checkbox"/>	<input type="checkbox"/>								
7. Ethylbenzene (E)	100414	<input type="checkbox"/>	<input type="checkbox"/>								
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	<input type="checkbox"/>	<input type="checkbox"/>								
9. Total BTEX ²	n/a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8260	1	0	0	0	0
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) ³	106934	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8260	0.5	0	0	0	0
11. Methyl-tert-Butyl Ether (MtBE)	1634044	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8260	1	0	0	0	0
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8260	.5	0	0	0	0

* Numbering system is provided to allow cross-referencing to Effluent Limits and Monitoring Requirements by Sub-Category included in Appendix III, as well as the Test Methods and Minimum Levels associated with each parameter provided in Appendix VI.

² BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

³ EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (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)
13. tert-Amyl Methyl Ether (TAME)	9940508	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8260	0.5	0	0	0	0
14. Naphthalene	91203	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8260	10	0	0	0	0
15. Carbon Tetrachloride	56235	<input type="checkbox"/>	<input type="checkbox"/>								
16. 1,2 Dichlorobenzene (o-DCB)	95501	<input type="checkbox"/>	<input type="checkbox"/>								
17. 1,3 Dichlorobenzene (m-DCB)	541731	<input type="checkbox"/>	<input type="checkbox"/>								
18. 1,4 Dichlorobenzene (p-DCB)	106467	<input type="checkbox"/>	<input type="checkbox"/>								
18a. Total dichlorobenzene		<input type="checkbox"/>	<input type="checkbox"/>								
19. 1,1 Dichloroethane (DCA)	75343	<input type="checkbox"/>	<input type="checkbox"/>								
20. 1,2 Dichloroethane (DCA)	107062	<input type="checkbox"/>	<input type="checkbox"/>								
21. 1,1 Dichloroethene (DCE)	75354	<input type="checkbox"/>	<input type="checkbox"/>								
22. cis-1,2 Dichloroethene (DCE)	156592	<input type="checkbox"/>	<input type="checkbox"/>								
23. Methylene Chloride	75092	<input type="checkbox"/>	<input type="checkbox"/>								
24. Tetrachloroethene (PCE)	127184	<input type="checkbox"/>	<input type="checkbox"/>								
25. 1,1,1 Trichloro-ethane (TCA)	71556	<input type="checkbox"/>	<input type="checkbox"/>								
26. 1,1,2 Trichloro-ethane (TCA)	79005	<input type="checkbox"/>	<input type="checkbox"/>								
27. Trichloroethene (TCE)	79016	<input type="checkbox"/>	<input type="checkbox"/>								

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (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)
28. Vinyl Chloride (Chloroethene)	75014	<input type="checkbox"/>	<input type="checkbox"/>								
29. Acetone	67641	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW824 8260	10	0	0	0	0
30. 1,4 Dioxane	123911	<input type="checkbox"/>	<input type="checkbox"/>								
31. Total Phenols	108952	<input type="checkbox"/>	<input type="checkbox"/>								
32. Pentachlorophenol (PCP)	87865	<input type="checkbox"/>	<input type="checkbox"/>								
33. Total Phthalates (Phthalate esters) ⁴		<input type="checkbox"/>	<input type="checkbox"/>								
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	<input type="checkbox"/>	<input type="checkbox"/>								
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
a. Benzo(a) Anthracene	56553	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
b. Benzo(a) Pyrene	50328	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
c. Benzo(b)Fluoranthene	205992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
d. Benzo(k)Fluoranthene	207089	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
e. Chrysene	21801	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
f. Dibenzo(a,h)anthracene	53703	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
g. Indeno(1,2,3-cd) Pyrene	193395	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0

⁴ The sum of individual phthalate compounds.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (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)
h. Acenaphthene	83329	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
i. Acenaphthylene	208968	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
j. Anthracene	120127	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
k. Benzo(ghi) Perylene	191242	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
l. Fluoranthene	206440	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
m. Fluorene	86737	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
n. Naphthalene	91203	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
o. Phenanthrene	85018	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
p. Pyrene	129000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	SW846 8270	5	0	0	0	0
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	<input type="checkbox"/>	<input type="checkbox"/>								
38. Chloride	16887006	<input type="checkbox"/>	<input type="checkbox"/>								
39. Antimony	7440360	<input type="checkbox"/>	<input type="checkbox"/>								
40. Arsenic	7440382	<input type="checkbox"/>	<input type="checkbox"/>								
41. Cadmium	7440439	<input type="checkbox"/>	<input type="checkbox"/>								
42. Chromium III (trivalent)	16065831	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	EPA 200.7	7	0	0	0	0
43. Chromium VI (hexavalent)	18540299	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	EPA 200.7	7	0	0	0	0
44. Copper	7440508	<input type="checkbox"/>	<input type="checkbox"/>								
45. Lead	7439921	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	EPA 200.7	5	0	0	0	0
46. Mercury	7439976	<input type="checkbox"/>	<input type="checkbox"/>								
47. Nickel	7440020	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	EPA 200.7	5	0	0	0	0
48. Selenium	7782492	<input type="checkbox"/>	<input type="checkbox"/>								
49. Silver	7440224	<input type="checkbox"/>	<input type="checkbox"/>								
50. Zinc	7440666	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	EPA 200.7	10	0	0	0	0
51. Iron	7439896	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	EPA 200.7	50	4,200	1.73	4,200	1.20
Other (describe):		<input type="checkbox"/>	<input type="checkbox"/>								

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (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)
		<input type="checkbox"/>	<input type="checkbox"/>								
		<input type="checkbox"/>	<input type="checkbox"/>								

b) For discharges where **metals** are believed present, please fill out the following (attach results of any calculations):

<p><i>Step 1:</i> Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y <input checked="" type="radio"/> N <input type="radio"/></p>	<p>If yes, which metals? iron</p>								
<p><i>Step 2:</i> For any metals which 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?</p> <table border="1" style="width: 100%;"> <tr> <td>Metal: iron</td> <td>DF: 47.61</td> </tr> <tr> <td>Metal: _____</td> <td>DF: _____</td> </tr> <tr> <td>Metal: _____</td> <td>DF: _____</td> </tr> <tr> <td>Metal: _____</td> <td>DF: _____</td> </tr> </table> <p>Etc.</p>	Metal: iron	DF: 47.61	Metal: _____	DF: _____	Metal: _____	DF: _____	Metal: _____	DF: _____	<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 type="radio"/> N <input checked="" type="radio"/> If Y, list which metals:</p>
Metal: iron	DF: 47.61								
Metal: _____	DF: _____								
Metal: _____	DF: _____								
Metal: _____	DF: _____								

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:						
<p>The water from the excavation area will be pumped into a fractionation tank for settling and then subsequently will be pumped through two bag filter units connected in parallel, through two liquid granular activated carbon units connected in series, and through a flow meter prior to discharge. The treated water will be discharged to a municipal stormwater catch basin located in Crescent Street, approximately 200 ft west of the Mobil Station property. The municipal stormwater system into which the discharge will be directed flows approximately 1,850 ft in a northwesterly direction to an outfall which discharges to the Charles River.</p>						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank <input checked="" type="checkbox"/>	Air stripper <input type="checkbox"/>	Oil/water separator <input type="checkbox"/>	Equalization tanks <input type="checkbox"/>	Bag filter <input checked="" type="checkbox"/>	GAC filter <input checked="" type="checkbox"/>
	Chlorination <input type="checkbox"/>	De-chlorination <input type="checkbox"/>	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 gpm Maximum flow rate of treatment system gpm
 Design flow rate of treatment system gpm

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

None.

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

a) Identify the discharge pathway:	Direct to receiving water <input type="checkbox"/>	Within facility (sewer) <input type="checkbox"/>	Storm drain <input type="checkbox"/>	Wetlands <input type="checkbox"/>	Other (describe): <input type="text"/>
------------------------------------	--	--	--------------------------------------	-----------------------------------	---

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

The catch basin located in Crescent Street directs stormwater to an outfall located approximately 1,400 ft northwest of the site which discharges to the Charles River.

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

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 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? Y N If yes, for which pollutant(s)?

Is there a final TMDL? Y N If yes, for which pollutant(s)?

6. ESA and NHPA Eligibility.

Please provide the following information according to requirements of Permit Parts I.A.4 and I.A.5 Appendices II and VII.

<p>a) Using the instructions in Appendix VII and information on Appendix II, under which criterion listed in Part I.C are you eligible for coverage under this general permit? A <input checked="" type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/></p> <p>b) If you selected Criterion D or F, has consultation with the federal services been completed? Y <input type="radio"/> N <input type="radio"/> Underway <input type="radio"/></p> <p>c) If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is “not likely to adversely affect” listed species or critical habitat received? Y <input type="radio"/> N <input type="radio"/></p> <p>d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.</p>
<p>e) Using the instructions in Appendix VII, under which criterion listed in Part II.C are you eligible for coverage under this general permit? 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/></p> <p>f) If Criterion 3 was selected, attach all written correspondence with the State or Tribal historic preservation officers, including any terms and conditions that outline measures the applicant must follow to mitigate or prevent adverse effects due to activities regulated by the RGP.</p>

7. Supplemental information.

<p>Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.</p>
<p>Data reviewed to make the above ESA and NHPA determinations are included in Appendix III and Appendix IV.</p>

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:	Waltham Mobil
Operator signature:	
Printed Name & Title:	Steven Charron, Environmental Manager
Date:	3-26-15

Dilution Factor

$$DF = (Q_d + Q_s)/Q_d$$

$$DF = (0.168 \text{ cfs} + 7.83 \text{ cfs})/0.168 \text{ cfs}$$

$$DF = 47.61$$

ATTACHMENT II

March 20, 2015

Matt Carey
ECS - Woburn, MA
10 State Street
Woburn, MA 01801

Project Location: 845 Moody St., Waltham, MA
Client Job Number:
Project Number: 95-217492
Laboratory Work Order Number: 15C0521

Enclosed are results of analyses for samples received by the laboratory on March 13, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington
Project Manager

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

ECS - Woburn, MA
10 State Street
Woburn, MA 01801
ATTN: Matt Carey

REPORT DATE: 3/20/2015

PURCHASE ORDER NUMBER: Global

PROJECT NUMBER: 95-217492

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15C0521

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

PROJECT LOCATION: 845 Moody St., Waltham, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
NE UST MW	15C0521-01	Ground Water		EPA 200.7 EPA 245.1 SM21-22 2540D SM21-22 4500 CL G SW-846 8100 Modified SW-846 8260C SW-846 8270D	

CASE NARRATIVE SUMMARY

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

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332
SM21-22 4500 CL G

Qualifications:**H-03**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**Chlorine, Residual**

15C0521-01[NE UST MW], B117017-DUP1, B117017-MS1

SW-846 8260C

Qualifications:**L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Dichlorodifluoromethane (Freon 11)**

15C0521-01[NE UST MW], B117088-BLK1, B117088-BS1, B117088-BSD1

Vinyl Chloride

15C0521-01[NE UST MW], B117088-BLK1, B117088-BS1, B117088-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Bromoform**

B117088-BS1

L-14

Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.

Analyte & Samples(s) Qualified:**Acetone**

B117088-BS1

Bromomethane

B117088-BS1, B117088-BSD1

Chloromethane

B117088-BS1, B117088-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Acetone**

15C0521-01[NE UST MW], B117088-BLK1, B117088-BS1, B117088-BSD1

RL-07

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

15C0521-01[NE UST MW]

1,2,4-Trichlorobenzene

15C0521-01[NE UST MW]

1,2-Dibromo-3-chloropropane (DB)

15C0521-01[NE UST MW]

Carbon Disulfide

15C0521-01[NE UST MW]

Methylene Chloride

15C0521-01[NE UST MW]

Naphthalene

15C0521-01[NE UST MW]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

15C0521-01[NE UST MW], B117088-BLK1, B117088-BS1, B117088-BSD1

1,2,4-Trichlorobenzene

15C0521-01[NE UST MW], B117088-BLK1, B117088-BS1, B117088-BSD1

Naphthalene

15C0521-01[NE UST MW], B117088-BLK1, B117088-BS1, B117088-BSD1

Tetrahydrofuran

15C0521-01[NE UST MW], B117088-BLK1, B117088-BS1, B117088-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

15C0521-01[NE UST MW], B117088-BLK1, B117088-BS1, B117088-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**2,2-Dichloropropane**

B117088-BS1, B117088-BSD1

Acetone

B117088-BS1, B117088-BSD1

Bromoform

B117088-BS1, B117088-BSD1

Bromomethane

B117088-BS1, B117088-BSD1

Trichlorofluoromethane (Freon 11)

B117088-BS1, B117088-BSD1

SW-846 8270D**Qualifications:****R-05**

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

15C0521-01[NE UST MW], B117023-BLK1, B117023-BS1, B117023-BSD1

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:**2,4,6-Tribromophenol**

B117023-BS1, B117023-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**1,2-Diphenylhydrazine (as Azoben)**

15C0521-01[NE UST MW], B117023-BLK1, B117023-BS1, B117023-BSD1

Bis(2-chloroisopropyl)ether

15C0521-01[NE UST MW], B117023-BLK1, B117023-BS1, B117023-BSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:**2,4,5-Trichlorophenol**

B117023-BS1, B117023-BSD1

2,4,6-Trichlorophenol

B117023-BS1, B117023-BSD1

2,4-Dinitrophenol

B117023-BS1, B117023-BSD1

2,4-Dinitrotoluene

B117023-BS1, B117023-BSD1

2,6-Dinitrotoluene

B117023-BS1, B117023-BSD1

Fluorene

B117023-BS1, B117023-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**2,4,5-Trichlorophenol**

15C0521-01[NE UST MW], B117023-BLK1

2,4,6-Trichlorophenol

15C0521-01[NE UST MW], B117023-BLK1

2,4-Dinitrophenol

15C0521-01[NE UST MW], B117023-BLK1

2,4-Dinitrotoluene

15C0521-01[NE UST MW], B117023-BLK1

2,6-Dinitrotoluene

15C0521-01[NE UST MW], B117023-BLK1

Fluorene

15C0521-01[NE UST MW], B117023-BLK1

SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

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



Daren J. Damboragian
Laboratory Manager

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

Project Location: 845 Moody St., Waltham, MA

Sample Description:

Work Order: 15C0521

Date Received: 3/13/2015

Field Sample #: NE UST MW

Sampled: 3/12/2015 12:35

Sample ID: 15C0521-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	R-05	SW-846 8260C	3/16/15	3/16/15 13:40	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
n-Butylbenzene	ND	2.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	1	RL-07	SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	L-04	SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD

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

Project Location: 845 Moody St., Waltham, MA

Sample Description:

Work Order: 15C0521

Date Received: 3/13/2015

Field Sample #: NE UST MW

Sampled: 3/12/2015 12:35

Sample ID: 15C0521-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	2.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Methylene Chloride	ND	10	µg/L	1	RL-07	SW-846 8260C	3/16/15	3/16/15 13:40	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Naphthalene	ND	10	µg/L	1	RL-07, V-05	SW-846 8260C	3/16/15	3/16/15 13:40	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
Vinyl Chloride	ND	2.0	µg/L	1	L-04	SW-846 8260C	3/16/15	3/16/15 13:40	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	3/16/15	3/16/15 13:40	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	98.3	70-130	
4-Bromofluorobenzene	98.7	70-130	

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

Project Location: 845 Moody St., Waltham, MA

Sample Description:

Work Order: 15C0521

Date Received: 3/13/2015

Field Sample #: NE UST MW

Sampled: 3/12/2015 12:35

Sample ID: 15C0521-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Acetophenone	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Aniline	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1	V-05	SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Dibenzo furan	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
1,2-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
1,3-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
1,4-Dichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
2,4-Dinitrophenol	ND	10	µg/L	1	R-05, V-20	SW-846 8270D	3/14/15	3/16/15 12:28	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1	V-20	SW-846 8270D	3/14/15	3/16/15 12:28	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1	V-20	SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L	1	V-05	SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Fluorene	ND	5.0	µg/L	1	V-20	SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Isophorone	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL

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

Project Location: 845 Moody St., Waltham, MA

Sample Description:

Work Order: 15C0521

Date Received: 3/13/2015

Field Sample #: NE UST MW

Sampled: 3/12/2015 12:35

Sample ID: 15C0521-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Phenol	ND	10	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	3/14/15	3/16/15 12:28	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1	V-20	SW-846 8270D	3/14/15	3/16/15 12:28	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1	V-20	SW-846 8270D	3/14/15	3/16/15 12:28	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		35.5	15-110					3/16/15 12:28	
Phenol-d6		21.7	15-110					3/16/15 12:28	
Nitrobenzene-d5		65.9	30-130					3/16/15 12:28	
2-Fluorobiphenyl		82.8	30-130					3/16/15 12:28	
2,4,6-Tribromophenol		98.3	15-110					3/16/15 12:28	
p-Terphenyl-d14		81.2	30-130					3/16/15 12:28	

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Project Location: 845 Moody St., Waltham, MA

Sample Description:

Work Order: 15C0521

Date Received: 3/13/2015

Field Sample #: NE UST MW

Sampled: 3/12/2015 12:35

Sample ID: 15C0521-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	ND	0.20	mg/L	1		SW-846 8100 Modified	3/14/15	3/16/15 11:34	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	102		40-140					3/16/15 11:34	

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Project Location: 845 Moody St., Waltham, MA

Sample Description:

Work Order: 15C0521

Date Received: 3/13/2015

Field Sample #: NE UST MW

Sampled: 3/12/2015 12:35

Sample ID: 15C0521-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Iron	4.2	0.050	mg/L	1		EPA 200.7	3/16/15	3/17/15 13:36	MJH

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Project Location: 845 Moody St., Waltham, MA

Sample Description:

Work Order: 15C0521

Date Received: 3/13/2015

Field Sample #: NE UST MW

Sampled: 3/12/2015 12:35

Sample ID: 15C0521-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	0.050	mg/L	1		EPA 200.7	3/16/15	3/17/15 17:29	MJH
Arsenic	ND	0.010	mg/L	1		EPA 200.7	3/16/15	3/17/15 17:29	MJH
Beryllium	ND	0.0020	mg/L	1		EPA 200.7	3/16/15	3/17/15 17:29	MJH
Cadmium	ND	0.0010	mg/L	1		EPA 200.7	3/16/15	3/17/15 17:29	MJH
Chromium	ND	0.0070	mg/L	1		EPA 200.7	3/16/15	3/17/15 17:29	MJH
Copper	0.0085	0.0050	mg/L	1		EPA 200.7	3/16/15	3/20/15 11:33	MJH
Lead	ND	0.0050	mg/L	1		EPA 200.7	3/16/15	3/17/15 17:29	MJH
Mercury	ND	0.00010	mg/L	1		EPA 245.1	3/16/15	3/17/15 9:29	SCB
Nickel	ND	0.0050	mg/L	1		EPA 200.7	3/16/15	3/17/15 17:29	MJH
Selenium	ND	0.050	mg/L	1		EPA 200.7	3/16/15	3/18/15 16:34	MJH
Silver	ND	0.010	mg/L	1		EPA 200.7	3/16/15	3/17/15 17:29	MJH
Thallium	ND	0.060	mg/L	1		EPA 200.7	3/16/15	3/18/15 16:34	MJH
Zinc	ND	0.010	mg/L	1		EPA 200.7	3/16/15	3/17/15 17:29	MJH

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

Project Location: 845 Moody St., Waltham, MA

Sample Description:

Work Order: 15C0521

Date Received: 3/13/2015

Field Sample #: NE UST MW

Sampled: 3/12/2015 12:35

Sample ID: 15C0521-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chlorine, Residual	ND	0.020	mg/L	1	H-03	SM21-22 4500 CL G	3/13/15	3/13/15 23:55	DJM
Total Suspended Solids	16	5.0	mg/L	1		SM21-22 2540D	3/16/15	3/16/15 12:30	LL

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15C0521-01 [NE UST MW]	B117113	50.0	50.0	03/16/15

Prep Method: EPA 200.7 Dissolved-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15C0521-01 [NE UST MW]	B117119	50.0	50.0	03/16/15

Prep Method: EPA 245.1-EPA 245.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15C0521-01 [NE UST MW]	B117044	6.00	6.00	03/16/15

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15C0521-01 [NE UST MW]	B117045	100		03/16/15

SM21-22 4500 CL G

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15C0521-01 [NE UST MW]	B117017	100	100	03/13/15

Prep Method: SW-846 3510C-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15C0521-01 [NE UST MW]	B117022	1000	1.00	03/14/15

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15C0521-01 [NE UST MW]	B117088	5	5.00	03/16/15

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15C0521-01 [NE UST MW]	B117023	1000	1.00	03/14/15

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B117088 - SW-846 5030B										
Blank (B117088-BLK1)										
Prepared & Analyzed: 03/16/15										
Acetone	ND	10	µg/L							R-05
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	1.0	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	10	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							L-04
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.40	µg/L							
trans-1,3-Dichloropropene	ND	0.40	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							V-05

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B117088 - SW-846 5030B										
Blank (B117088-BLK1)										
Prepared & Analyzed: 03/16/15										
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	2.0	µg/L							V-05
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							V-05
1,2,4-Trichlorobenzene	ND	1.0	µg/L							V-05
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							L-04
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.7		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	24.2		µg/L	25.0		96.7	70-130			
LCS (B117088-BS1)										
Prepared & Analyzed: 03/16/15										
Acetone	135	10	µg/L	100		135	40-160			L-14, R-05, V-20 †
tert-Amyl Methyl Ether (TAME)	9.22	0.50	µg/L	10.0		92.2	70-130			
Benzene	9.18	1.0	µg/L	10.0		91.8	70-130			
Bromobenzene	9.59	1.0	µg/L	10.0		95.9	70-130			
Bromochloromethane	10.3	1.0	µg/L	10.0		103	70-130			
Bromodichloromethane	11.7	1.0	µg/L	10.0		117	70-130			
Bromoform	13.3	1.0	µg/L	10.0		133 *	70-130			L-07, V-20
Bromomethane	6.60	2.0	µg/L	10.0		66.0	40-160			L-14, V-20 †
2-Butanone (MEK)	109	10	µg/L	100		109	40-160			†
n-Butylbenzene	8.69	1.0	µg/L	10.0		86.9	70-130			
sec-Butylbenzene	9.19	1.0	µg/L	10.0		91.9	70-130			
tert-Butylbenzene	9.29	1.0	µg/L	10.0		92.9	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.44	0.50	µg/L	10.0		94.4	70-130			
Carbon Disulfide	9.00	5.0	µg/L	10.0		90.0	70-130			
Carbon Tetrachloride	11.4	1.0	µg/L	10.0		114	70-130			
Chlorobenzene	9.74	1.0	µg/L	10.0		97.4	70-130			
Chlorodibromomethane	11.4	0.50	µg/L	10.0		114	70-130			
Chloroethane	9.53	2.0	µg/L	10.0		95.3	70-130			
Chloroform	10.5	2.0	µg/L	10.0		105	70-130			
Chloromethane	5.46	2.0	µg/L	10.0		54.6	40-160			L-14 †
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130			
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.13	2.0	µg/L	10.0		91.3	70-130			
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103	70-130			
Dibromomethane	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichlorobenzene	8.77	1.0	µg/L	10.0		87.7	70-130			
1,3-Dichlorobenzene	9.17	1.0	µg/L	10.0		91.7	70-130			
1,4-Dichlorobenzene	9.09	1.0	µg/L	10.0		90.9	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B117088 - SW-846 5030B										
LCS (B117088-BS1)										
				Prepared & Analyzed: 03/16/15						
Dichlorodifluoromethane (Freon 12)	3.62	2.0	µg/L	10.0		36.2 *	40-160			L-04 †
1,1-Dichloroethane	9.20	1.0	µg/L	10.0		92.0	70-130			
1,2-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
1,1-Dichloroethylene	11.8	1.0	µg/L	10.0		118	70-130			
cis-1,2-Dichloroethylene	9.61	1.0	µg/L	10.0		96.1	70-130			
trans-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
1,2-Dichloropropane	9.16	1.0	µg/L	10.0		91.6	70-130			V-20
1,3-Dichloropropane	9.39	0.50	µg/L	10.0		93.9	70-130			
2,2-Dichloropropane	11.5	1.0	µg/L	10.0		115	70-130			
1,1-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130			
cis-1,3-Dichloropropene	9.49	0.40	µg/L	10.0		94.9	70-130			
trans-1,3-Dichloropropene	11.2	0.40	µg/L	10.0		112	70-130			
Diethyl Ether	10.8	2.0	µg/L	10.0		108	70-130			
Diisopropyl Ether (DIPE)	8.52	0.50	µg/L	10.0		85.2	70-130			
1,4-Dioxane	119	50	µg/L	100		119	40-160			V-16 †
Ethylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
Hexachlorobutadiene	10.2	0.50	µg/L	10.0		102	70-130			
2-Hexanone (MBK)	116	10	µg/L	100		116	40-160			†
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.0		104	70-130			
p-Isopropyltoluene (p-Cymene)	9.63	1.0	µg/L	10.0		96.3	70-130			
Methyl tert-Butyl Ether (MTBE)	9.94	1.0	µg/L	10.0		99.4	70-130			
Methylene Chloride	11.5	5.0	µg/L	10.0		115	70-130			
4-Methyl-2-pentanone (MIBK)	94.1	10	µg/L	100		94.1	40-160			†
Naphthalene	8.29	2.0	µg/L	10.0		82.9	70-130			V-05
n-Propylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
Styrene	10.6	1.0	µg/L	10.0		106	70-130			
1,1,1,2-Tetrachloroethane	11.0	1.0	µg/L	10.0		110	70-130			
1,1,2,2-Tetrachloroethane	8.59	0.50	µg/L	10.0		85.9	70-130			
Tetrachloroethylene	11.4	1.0	µg/L	10.0		114	70-130			
Tetrahydrofuran	8.43	2.0	µg/L	10.0		84.3	70-130			V-05
Toluene	10.3	1.0	µg/L	10.0		103	70-130			
1,2,3-Trichlorobenzene	8.40	2.0	µg/L	10.0		84.0	70-130			V-05
1,2,4-Trichlorobenzene	8.40	1.0	µg/L	10.0		84.0	70-130			V-05
1,1,1-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130			
1,1,2-Trichloroethane	9.73	1.0	µg/L	10.0		97.3	70-130			
Trichloroethylene	9.51	1.0	µg/L	10.0		95.1	70-130			
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0		110	70-130			V-20
1,2,3-Trichloropropane	9.21	2.0	µg/L	10.0		92.1	70-130			
1,2,4-Trimethylbenzene	9.31	1.0	µg/L	10.0		93.1	70-130			
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Vinyl Chloride	6.79	2.0	µg/L	10.0		67.9 *	70-130			L-04
m+p Xylene	22.0	2.0	µg/L	20.0		110	70-130			
o-Xylene	10.4	1.0	µg/L	10.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.3		µg/L	25.0		97.2	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	26.4		µg/L	25.0		106	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B117088 - SW-846 5030B										
LCS Dup (B117088-BSD1)										
Prepared & Analyzed: 03/16/15										
Acetone	108	10	µg/L	100		108	40-160	21.9 *	20	V-20, R-05 †
tert-Amyl Methyl Ether (TAME)	8.59	0.50	µg/L	10.0		85.9	70-130	7.07	20	
Benzene	8.84	1.0	µg/L	10.0		88.4	70-130	3.77	20	
Bromobenzene	9.42	1.0	µg/L	10.0		94.2	70-130	1.79	20	
Bromochloromethane	10.3	1.0	µg/L	10.0		103	70-130	0.0969	20	
Bromodichloromethane	11.5	1.0	µg/L	10.0		115	70-130	1.98	20	
Bromofom	12.9	1.0	µg/L	10.0		129	70-130	3.12	20	V-20
Bromomethane	6.99	2.0	µg/L	10.0		69.9	40-160	5.74	20	L-14, V-20 †
2-Butanone (MEK)	91.4	10	µg/L	100		91.4	40-160	17.5	20	†
n-Butylbenzene	8.18	1.0	µg/L	10.0		81.8	70-130	6.05	20	
sec-Butylbenzene	8.75	1.0	µg/L	10.0		87.5	70-130	4.91	20	
tert-Butylbenzene	9.07	1.0	µg/L	10.0		90.7	70-130	2.40	20	
tert-Butyl Ethyl Ether (TBEE)	9.17	0.50	µg/L	10.0		91.7	70-130	2.90	20	
Carbon Disulfide	8.48	5.0	µg/L	10.0		84.8	70-130	5.95	20	
Carbon Tetrachloride	10.8	1.0	µg/L	10.0		108	70-130	5.50	20	
Chlorobenzene	9.27	1.0	µg/L	10.0		92.7	70-130	4.94	20	
Chlorodibromomethane	11.3	0.50	µg/L	10.0		113	70-130	0.880	20	
Chloroethane	9.37	2.0	µg/L	10.0		93.7	70-130	1.69	20	
Chlorofom	10.2	2.0	µg/L	10.0		102	70-130	2.81	20	
Chloromethane	5.28	2.0	µg/L	10.0		52.8	40-160	3.35	20	L-14 †
2-Chlorotoluene	9.92	1.0	µg/L	10.0		99.2	70-130	4.63	20	
4-Chlorotoluene	10.2	1.0	µg/L	10.0		102	70-130	5.14	20	
1,2-Dibromo-3-chloropropane (DBCP)	9.13	2.0	µg/L	10.0		91.3	70-130	0.00	20	
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.0		100	70-130	2.17	20	
Dibromomethane	10.1	1.0	µg/L	10.0		101	70-130	3.79	20	
1,2-Dichlorobenzene	8.73	1.0	µg/L	10.0		87.3	70-130	0.457	20	
1,3-Dichlorobenzene	8.98	1.0	µg/L	10.0		89.8	70-130	2.09	20	
1,4-Dichlorobenzene	8.79	1.0	µg/L	10.0		87.9	70-130	3.36	20	
Dichlorodifluoromethane (Freon 12)	3.52	2.0	µg/L	10.0		35.2 *	40-160	2.80	20	L-04 †
1,1-Dichloroethane	8.88	1.0	µg/L	10.0		88.8	70-130	3.54	20	
1,2-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130	2.14	20	
1,1-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	6.56	20	
cis-1,2-Dichloroethylene	9.31	1.0	µg/L	10.0		93.1	70-130	3.17	20	
trans-1,2-Dichloroethylene	9.80	1.0	µg/L	10.0		98.0	70-130	4.78	20	
1,2-Dichloropropane	8.77	1.0	µg/L	10.0		87.7	70-130	4.35	20	
1,3-Dichloropropane	9.15	0.50	µg/L	10.0		91.5	70-130	2.59	20	
2,2-Dichloropropane	11.0	1.0	µg/L	10.0		110	70-130	5.16	20	V-20
1,1-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130	4.95	20	
cis-1,3-Dichloropropene	8.98	0.40	µg/L	10.0		89.8	70-130	5.52	20	
trans-1,3-Dichloropropene	10.6	0.40	µg/L	10.0		106	70-130	5.70	20	
Diethyl Ether	10.6	2.0	µg/L	10.0		106	70-130	1.97	20	
Diisopropyl Ether (DIPE)	8.33	0.50	µg/L	10.0		83.3	70-130	2.26	20	
1,4-Dioxane	120	50	µg/L	100		120	40-160	1.12	20	V-16 †
Ethylbenzene	9.76	1.0	µg/L	10.0		97.6	70-130	4.51	20	
Hexachlorobutadiene	9.46	0.50	µg/L	10.0		94.6	70-130	7.72	20	
2-Hexanone (MBK)	96.7	10	µg/L	100		96.7	40-160	18.0	20	†
Isopropylbenzene (Cumene)	9.91	1.0	µg/L	10.0		99.1	70-130	5.30	20	
p-Isopropyltoluene (p-Cymene)	9.30	1.0	µg/L	10.0		93.0	70-130	3.49	20	
Methyl tert-Butyl Ether (MTBE)	9.72	1.0	µg/L	10.0		97.2	70-130	2.24	20	
Methylene Chloride	11.8	5.0	µg/L	10.0		118	70-130	2.32	20	
4-Methyl-2-pentanone (MIBK)	89.0	10	µg/L	100		89.0	40-160	5.52	20	†
Naphthalene	7.86	2.0	µg/L	10.0		78.6	70-130	5.33	20	V-05

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B117088 - SW-846 5030B										
LCS Dup (B117088-BSD1)										
Prepared & Analyzed: 03/16/15										
n-Propylbenzene	10.2	1.0	µg/L	10.0		102	70-130	4.50	20	
Styrene	10.2	1.0	µg/L	10.0		102	70-130	3.08	20	
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.0		106	70-130	3.90	20	
1,1,2,2-Tetrachloroethane	8.18	0.50	µg/L	10.0		81.8	70-130	4.89	20	
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130	4.56	20	
Tetrahydrofuran	7.57	2.0	µg/L	10.0		75.7	70-130	10.8	20	V-05
Toluene	9.96	1.0	µg/L	10.0		99.6	70-130	3.36	20	
1,2,3-Trichlorobenzene	7.72	2.0	µg/L	10.0		77.2	70-130	8.44	20	V-05
1,2,4-Trichlorobenzene	7.77	1.0	µg/L	10.0		77.7	70-130	7.79	20	V-05
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130	3.73	20	
1,1,2-Trichloroethane	9.55	1.0	µg/L	10.0		95.5	70-130	1.87	20	
Trichloroethylene	9.17	1.0	µg/L	10.0		91.7	70-130	3.64	20	
Trichlorofluoromethane (Freon 11)	10.3	2.0	µg/L	10.0		103	70-130	7.12	20	V-20
1,2,3-Trichloropropane	9.08	2.0	µg/L	10.0		90.8	70-130	1.42	20	
1,2,4-Trimethylbenzene	9.02	1.0	µg/L	10.0		90.2	70-130	3.16	20	
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.0		101	70-130	5.93	20	
Vinyl Chloride	6.45	2.0	µg/L	10.0		64.5 *	70-130	5.14	20	L-04
m+p Xylene	20.7	2.0	µg/L	20.0		103	70-130	6.09	20	
o-Xylene	10.0	1.0	µg/L	10.0		100	70-130	3.91	20	
Surrogate: 1,2-Dichloroethane-d4	24.5		µg/L	25.0		97.8	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	26.7		µg/L	25.0		107	70-130			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B117023 - SW-846 3510C

Blank (B117023-BLK1)

Prepared: 03/14/15 Analyzed: 03/16/15

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							V-05
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							R-05, V-20
2,4-Dinitrotoluene	ND	10	µg/L							V-20
2,6-Dinitrotoluene	ND	10	µg/L							V-20
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							V-05
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							V-20
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B117023 - SW-846 3510C

Blank (B117023-BLK1)

Prepared: 03/14/15 Analyzed: 03/16/15

Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							V-20
2,4,6-Trichlorophenol	ND	10	µg/L							V-20
Surrogate: 2-Fluorophenol	69.6		µg/L	200		34.8	15-110			
Surrogate: Phenol-d6	42.1		µg/L	200		21.1	15-110			
Surrogate: Nitrobenzene-d5	65.6		µg/L	100		65.6	30-130			
Surrogate: 2-Fluorobiphenyl	81.7		µg/L	100		81.7	30-130			
Surrogate: 2,4,6-Tribromophenol	214		µg/L	200		107	15-110			
Surrogate: p-Terphenyl-d14	89.2		µg/L	100		89.2	30-130			

LCS (B117023-BS1)

Prepared: 03/14/15 Analyzed: 03/16/15

Acenaphthene	46.0	5.0	µg/L	50.0		92.0	40-140			
Acenaphthylene	46.9	5.0	µg/L	50.0		93.9	40-140			
Acetophenone	37.7	10	µg/L	50.0		75.4	40-140			
Aniline	26.5	5.0	µg/L	50.0		52.9	40-140			
Anthracene	44.5	5.0	µg/L	50.0		88.9	40-140			
Benzo(a)anthracene	44.3	5.0	µg/L	50.0		88.6	40-140			
Benzo(a)pyrene	44.5	5.0	µg/L	50.0		89.0	40-140			
Benzo(b)fluoranthene	43.6	5.0	µg/L	50.0		87.3	40-140			
Benzo(g,h,i)perylene	44.3	5.0	µg/L	50.0		88.5	40-140			
Benzo(k)fluoranthene	42.7	5.0	µg/L	50.0		85.4	40-140			
Bis(2-chloroethoxy)methane	38.8	10	µg/L	50.0		77.6	40-140			
Bis(2-chloroethyl)ether	36.6	10	µg/L	50.0		73.1	40-140			
Bis(2-chloroisopropyl)ether	27.2	10	µg/L	50.0		54.5	40-140			V-05
Bis(2-Ethylhexyl)phthalate	44.2	10	µg/L	50.0		88.4	40-140			
4-Bromophenylphenylether	45.3	10	µg/L	50.0		90.6	40-140			
Butylbenzylphthalate	43.2	10	µg/L	50.0		86.4	40-140			
4-Chloroaniline	44.1	10	µg/L	50.0		88.2	15-140			†
2-Chloronaphthalene	39.9	10	µg/L	50.0		79.9	40-140			
2-Chlorophenol	34.3	10	µg/L	50.0		68.6	30-130			
Chrysene	43.8	5.0	µg/L	50.0		87.5	40-140			
Dibenz(a,h)anthracene	45.5	5.0	µg/L	50.0		90.9	40-140			
Dibenzofuran	48.8	5.0	µg/L	50.0		97.7	40-140			
Di-n-butylphthalate	42.1	10	µg/L	50.0		84.3	40-140			
1,2-Dichlorobenzene	35.4	5.0	µg/L	50.0		70.8	40-140			
1,3-Dichlorobenzene	33.2	5.0	µg/L	50.0		66.5	40-140			
1,4-Dichlorobenzene	33.5	5.0	µg/L	50.0		67.1	40-140			
3,3-Dichlorobenzidine	51.9	10	µg/L	50.0		104	40-140			
2,4-Dichlorophenol	43.3	10	µg/L	50.0		86.7	30-130			
Diethylphthalate	48.4	10	µg/L	50.0		96.9	40-140			
2,4-Dimethylphenol	39.7	10	µg/L	50.0		79.4	30-130			
Dimethylphthalate	50.2	10	µg/L	50.0		100	40-140			
2,4-Dinitrophenol	27.1	10	µg/L	50.0		54.2	15-140			R-05, V-06 †
2,4-Dinitrotoluene	49.9	10	µg/L	50.0		99.8	40-140			V-06
2,6-Dinitrotoluene	52.3	10	µg/L	50.0		105	40-140			V-06
Di-n-octylphthalate	47.4	10	µg/L	50.0		94.8	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	34.7	10	µg/L	50.0		69.4	40-140			V-05
Fluoranthene	44.7	5.0	µg/L	50.0		89.3	40-140			
Fluorene	48.9	5.0	µg/L	50.0		97.9	40-140			V-06
Hexachlorobenzene	44.0	10	µg/L	50.0		88.1	40-140			

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B117023 - SW-846 3510C										
LCS (B117023-BS1)										
					Prepared: 03/14/15 Analyzed: 03/16/15					
Hexachlorobutadiene	39.1	10	µg/L	50.0		78.2	40-140			
Hexachloroethane	31.5	10	µg/L	50.0		63.0	40-140			
Indeno(1,2,3-cd)pyrene	47.4	5.0	µg/L	50.0		94.8	40-140			
Isophorone	38.8	10	µg/L	50.0		77.6	40-140			
2-Methylnaphthalene	40.2	5.0	µg/L	50.0		80.4	40-140			
2-Methylphenol	28.9	10	µg/L	50.0		57.8	30-130			
3/4-Methylphenol	28.0	10	µg/L	50.0		56.0	30-130			
Naphthalene	38.2	5.0	µg/L	50.0		76.3	40-140			
Nitrobenzene	34.5	10	µg/L	50.0		69.1	40-140			
2-Nitrophenol	40.3	10	µg/L	50.0		80.6	30-130			
4-Nitrophenol	18.4	10	µg/L	50.0		36.8	15-140			†
Pentachlorophenol	45.1	10	µg/L	50.0		90.2	30-130			
Phenanthrene	43.9	5.0	µg/L	50.0		87.9	40-140			
Phenol	12.3	10	µg/L	50.0		24.7	15-140			†
Pyrene	44.8	5.0	µg/L	50.0		89.5	40-140			
1,2,4-Trichlorobenzene	39.6	5.0	µg/L	50.0		79.3	40-140			
2,4,5-Trichlorophenol	52.2	10	µg/L	50.0		104	30-130			V-06
2,4,6-Trichlorophenol	49.7	10	µg/L	50.0		99.5	30-130			V-06
Surrogate: 2-Fluorophenol	75.1		µg/L	200		37.6	15-110			
Surrogate: Phenol-d6	48.4		µg/L	200		24.2	15-110			
Surrogate: Nitrobenzene-d5	71.2		µg/L	100		71.2	30-130			
Surrogate: 2-Fluorobiphenyl	92.2		µg/L	100		92.2	30-130			
Surrogate: 2,4,6-Tribromophenol	226		µg/L	200		113 *	15-110			S-07
Surrogate: p-Terphenyl-d14	92.1		µg/L	100		92.1	30-130			
LCS Dup (B117023-BSD1)										
					Prepared: 03/14/15 Analyzed: 03/16/15					
Acenaphthene	51.0	5.0	µg/L	50.0		102	40-140	10.2	20	
Acenaphthylene	50.7	5.0	µg/L	50.0		101	40-140	7.74	20	
Acetophenone	42.6	10	µg/L	50.0		85.2	40-140	12.2	20	
Aniline	30.9	5.0	µg/L	50.0		61.8	40-140	15.5	20	
Anthracene	47.0	5.0	µg/L	50.0		94.1	40-140	5.64	20	
Benzo(a)anthracene	47.8	5.0	µg/L	50.0		95.7	40-140	7.66	20	
Benzo(a)pyrene	46.8	5.0	µg/L	50.0		93.5	40-140	5.02	20	
Benzo(b)fluoranthene	46.3	5.0	µg/L	50.0		92.6	40-140	5.94	20	
Benzo(g,h,i)perylene	43.4	5.0	µg/L	50.0		86.9	40-140	1.87	20	
Benzo(k)fluoranthene	45.8	5.0	µg/L	50.0		91.7	40-140	7.02	20	
Bis(2-chloroethoxy)methane	43.8	10	µg/L	50.0		87.6	40-140	12.1	20	
Bis(2-chloroethyl)ether	39.4	10	µg/L	50.0		78.9	40-140	7.58	20	
Bis(2-chloroisopropyl)ether	31.0	10	µg/L	50.0		61.9	40-140	12.7	20	V-05
Bis(2-Ethylhexyl)phthalate	46.7	10	µg/L	50.0		93.5	40-140	5.63	20	
4-Bromophenylphenylether	48.0	10	µg/L	50.0		96.0	40-140	5.79	20	
Butylbenzylphthalate	46.5	10	µg/L	50.0		93.0	40-140	7.36	20	
4-Chloroaniline	47.4	10	µg/L	50.0		94.8	15-140	7.19	20	†
2-Chloronaphthalene	48.4	10	µg/L	50.0		96.9	40-140	19.2	20	
2-Chlorophenol	38.0	10	µg/L	50.0		75.9	30-130	10.1	20	
Chrysene	47.6	5.0	µg/L	50.0		95.3	40-140	8.49	20	
Dibenz(a,h)anthracene	45.7	5.0	µg/L	50.0		91.3	40-140	0.439	20	
Dibenzofuran	52.3	5.0	µg/L	50.0		105	40-140	6.86	20	
Di-n-butylphthalate	45.9	10	µg/L	50.0		91.8	40-140	8.56	20	
1,2-Dichlorobenzene	41.3	5.0	µg/L	50.0		82.6	40-140	15.3	20	
1,3-Dichlorobenzene	39.8	5.0	µg/L	50.0		79.7	40-140	18.0	20	
1,4-Dichlorobenzene	40.1	5.0	µg/L	50.0		80.3	40-140	17.9	20	

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B117023 - SW-846 3510C										
LCS Dup (B117023-BSD1)										
					Prepared: 03/14/15 Analyzed: 03/16/15					
3,3-Dichlorobenzidine	59.3	10	µg/L	50.0		119	40-140	13.3	20	
2,4-Dichlorophenol	48.2	10	µg/L	50.0		96.3	30-130	10.5	20	
Diethylphthalate	51.4	10	µg/L	50.0		103	40-140	6.05	20	
2,4-Dimethylphenol	43.0	10	µg/L	50.0		86.1	30-130	8.07	20	
Dimethylphthalate	52.2	10	µg/L	50.0		104	40-140	3.91	20	
2,4-Dinitrophenol	37.9	10	µg/L	50.0		75.8	15-140	33.3 *	20	R-05, V-06 †
2,4-Dinitrotoluene	53.5	10	µg/L	50.0		107	40-140	6.92	20	V-06
2,6-Dinitrotoluene	56.1	10	µg/L	50.0		112	40-140	7.03	20	V-06
Di-n-octylphthalate	49.0	10	µg/L	50.0		98.0	40-140	3.24	20	
1,2-Diphenylhydrazine (as Azobenzene)	37.2	10	µg/L	50.0		74.4	40-140	6.98	20	V-05
Fluoranthene	48.4	5.0	µg/L	50.0		96.9	40-140	8.14	20	
Fluorene	52.6	5.0	µg/L	50.0		105	40-140	7.32	20	V-06
Hexachlorobenzene	47.7	10	µg/L	50.0		95.5	40-140	8.02	20	
Hexachlorobutadiene	46.1	10	µg/L	50.0		92.3	40-140	16.5	20	
Hexachloroethane	38.0	10	µg/L	50.0		76.0	40-140	18.7	20	
Indeno(1,2,3-cd)pyrene	45.6	5.0	µg/L	50.0		91.1	40-140	3.94	20	
Isophorone	42.6	10	µg/L	50.0		85.3	40-140	9.45	20	
2-Methylnaphthalene	45.0	5.0	µg/L	50.0		90.1	40-140	11.4	20	
2-Methylphenol	32.3	10	µg/L	50.0		64.5	30-130	10.9	20	
3/4-Methylphenol	29.9	10	µg/L	50.0		59.8	30-130	6.63	20	
Naphthalene	43.8	5.0	µg/L	50.0		87.5	40-140	13.6	20	
Nitrobenzene	38.9	10	µg/L	50.0		77.8	40-140	11.9	20	
2-Nitrophenol	46.1	10	µg/L	50.0		92.1	30-130	13.3	20	
4-Nitrophenol	19.9	10	µg/L	50.0		39.8	15-140	7.88	20	†
Pentachlorophenol	49.3	10	µg/L	50.0		98.5	30-130	8.80	20	
Phenanthrene	47.2	5.0	µg/L	50.0		94.3	40-140	7.07	20	
Phenol	13.6	10	µg/L	50.0		27.2	15-140	9.57	20	†
Pyrene	47.7	5.0	µg/L	50.0		95.3	40-140	6.30	20	
1,2,4-Trichlorobenzene	45.9	5.0	µg/L	50.0		91.8	40-140	14.7	20	
2,4,5-Trichlorophenol	53.9	10	µg/L	50.0		108	30-130	3.20	20	V-06
2,4,6-Trichlorophenol	53.3	10	µg/L	50.0		107	30-130	6.97	20	V-06
Surrogate: 2-Fluorophenol	86.6		µg/L	200		43.3	15-110			
Surrogate: Phenol-d6	54.4		µg/L	200		27.2	15-110			
Surrogate: Nitrobenzene-d5	80.5		µg/L	100		80.5	30-130			
Surrogate: 2-Fluorobiphenyl	103		µg/L	100		103	30-130			
Surrogate: 2,4,6-Tribromophenol	243		µg/L	200		122 *	15-110			S-07
Surrogate: p-Terphenyl-d14	101		µg/L	100		101	30-130			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B117022 - SW-846 3510C										
Blank (B117022-BLK1)										
					Prepared: 03/14/15 Analyzed: 03/16/15					
TPH (C9-C36)	ND	0.20	mg/L							
Surrogate: o-Terphenyl	0.105		mg/L	0.100		105	40-140			
LCS (B117022-BS1)										
					Prepared: 03/14/15 Analyzed: 03/16/15					
TPH (C9-C36)	1.02	0.20	mg/L	1.00		102	40-140			
Surrogate: o-Terphenyl	0.0963		mg/L	0.100		96.3	40-140			
LCS Dup (B117022-BSD1)										
					Prepared: 03/14/15 Analyzed: 03/16/15					
TPH (C9-C36)	0.987	0.20	mg/L	1.00		98.7	40-140	3.67	30	
Surrogate: o-Terphenyl	0.0954		mg/L	0.100		95.4	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B117113 - EPA 200.7										
Blank (B117113-BLK1)				Prepared: 03/16/15 Analyzed: 03/17/15						
Iron	ND	0.050	mg/L							
LCS (B117113-BS1)				Prepared: 03/16/15 Analyzed: 03/17/15						
Iron	0.547	0.050	mg/L	0.500		109	85-115			
LCS Dup (B117113-BSD1)				Prepared: 03/16/15 Analyzed: 03/17/15						
Iron	0.544	0.050	mg/L	0.500		109	85-115	0.611	20	
Duplicate (B117113-DUP1)				Source: 15C0521-01			Prepared: 03/16/15 Analyzed: 03/17/15			
Iron	4.20	0.050	mg/L		4.23			0.849	20	
Matrix Spike (B117113-MS1)				Source: 15C0521-01			Prepared: 03/16/15 Analyzed: 03/17/15			
Iron	4.71	0.050	mg/L	0.500	4.23	95.0	70-130			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B117044 - EPA 245.1										
Blank (B117044-BLK1)				Prepared: 03/16/15 Analyzed: 03/17/15						
Mercury	ND	0.00010	mg/L							
LCS (B117044-BS1)				Prepared: 03/16/15 Analyzed: 03/17/15						
Mercury	0.00212	0.00010	mg/L	0.00200		106	85-115			
LCS Dup (B117044-BSD1)				Prepared: 03/16/15 Analyzed: 03/17/15						
Mercury	0.00203	0.00010	mg/L	0.00200		102	85-115	4.06	20	
Duplicate (B117044-DUP1)				Source: 15C0521-01			Prepared: 03/16/15 Analyzed: 03/17/15			
Mercury	ND	0.00010	mg/L		ND			NC	30	
Matrix Spike (B117044-MS1)				Source: 15C0521-01			Prepared: 03/16/15 Analyzed: 03/17/15			
Mercury	0.00191	0.00010	mg/L	0.00200	ND	95.7	70-130			
Batch B117119 - EPA 200.7 Dissolved										
Blank (B117119-BLK1)				Prepared: 03/16/15 Analyzed: 03/17/15						
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Beryllium	ND	0.0020	mg/L							
Cadmium	ND	0.0010	mg/L							
Chromium	ND	0.0070	mg/L							
Copper	ND	0.0050	mg/L							
Lead	ND	0.0050	mg/L							
Nickel	ND	0.0050	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.010	mg/L							
Thallium	ND	0.060	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B117119-BS1)				Prepared: 03/16/15 Analyzed: 03/17/15						
Antimony	0.548	0.050	mg/L	0.500		110	85-115			
Arsenic	0.534	0.010	mg/L	0.500		107	85-115			
Beryllium	0.544	0.0020	mg/L	0.500		109	85-115			
Cadmium	0.554	0.0010	mg/L	0.500		111	85-115			
Chromium	0.547	0.0070	mg/L	0.500		109	85-115			
Copper	0.550	0.0050	mg/L	0.500		110	85-115			
Lead	0.527	0.0050	mg/L	0.500		105	85-115			
Nickel	0.547	0.0050	mg/L	0.500		109	85-115			
Selenium	0.534	0.050	mg/L	0.500		107	85-115			
Silver	0.523	0.010	mg/L	0.500		105	85-115			
Thallium	0.508	0.060	mg/L	0.500		102	85-115			
Zinc	0.538	0.010	mg/L	0.500		108	85-115			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B117119 - EPA 200.7 Dissolved

LCS Dup (B117119-BSD1)

Prepared: 03/16/15 Analyzed: 03/17/15

Antimony	0.541	0.050	mg/L	0.500		108	85-115	1.16	20	
Arsenic	0.525	0.010	mg/L	0.500		105	85-115	1.72	20	
Beryllium	0.539	0.0020	mg/L	0.500		108	85-115	0.986	20	
Cadmium	0.544	0.0010	mg/L	0.500		109	85-115	1.85	20	
Chromium	0.536	0.0070	mg/L	0.500		107	85-115	1.89	20	
Copper	0.541	0.0050	mg/L	0.500		108	85-115	1.53	20	
Lead	0.532	0.0050	mg/L	0.500		106	85-115	0.870	20	
Nickel	0.535	0.0050	mg/L	0.500		107	85-115	2.25	20	
Selenium	0.535	0.050	mg/L	0.500		107	85-115	0.292	20	
Silver	0.515	0.010	mg/L	0.500		103	85-115	1.37	20	
Thallium	0.512	0.060	mg/L	0.500		102	85-115	0.892	20	
Zinc	0.530	0.010	mg/L	0.500		106	85-115	1.56	20	

Duplicate (B117119-DUP1)

Source: 15C0521-01

Prepared: 03/16/15 Analyzed: 03/17/15

Antimony	ND	0.050	mg/L		ND			NC	20	
Arsenic	ND	0.010	mg/L		ND			NC	20	
Beryllium	ND	0.0020	mg/L		ND			NC	20	
Cadmium	ND	0.0010	mg/L		ND			NC	20	
Chromium	ND	0.0070	mg/L		ND			NC	20	
Copper	0.00869	0.0050	mg/L		0.00845			2.73	20	
Lead	ND	0.0050	mg/L		ND			NC	20	
Nickel	ND	0.0050	mg/L		ND			NC	20	
Selenium	ND	0.050	mg/L		ND			NC	20	
Silver	ND	0.010	mg/L		ND			NC	20	
Thallium	ND	0.060	mg/L		ND			NC	20	
Zinc	ND	0.010	mg/L		ND			NC	20	

Matrix Spike (B117119-MS1)

Source: 15C0521-01

Prepared: 03/16/15 Analyzed: 03/17/15

Antimony	0.552	0.050	mg/L	0.500	ND	110	70-130			
Arsenic	0.559	0.010	mg/L	0.500	ND	112	70-130			
Beryllium	0.544	0.0020	mg/L	0.500	ND	109	70-130			
Cadmium	0.545	0.0010	mg/L	0.500	ND	109	70-130			
Chromium	0.534	0.0070	mg/L	0.500	ND	107	70-130			
Copper	0.568	0.0050	mg/L	0.500	0.00845	112	70-130			
Lead	0.510	0.0050	mg/L	0.500	ND	102	70-130			
Nickel	0.517	0.0050	mg/L	0.500	0.00489	102	70-130			
Selenium	0.556	0.050	mg/L	0.500	0.0241	106	70-130			
Silver	0.501	0.010	mg/L	0.500	ND	100	70-130			
Thallium	0.498	0.060	mg/L	0.500	ND	99.6	70-130			
Zinc	0.537	0.010	mg/L	0.500	0.00874	106	70-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B117017 - SM21-22 4500 CL G										
Blank (B117017-BLK1)				Prepared & Analyzed: 03/13/15						
Chlorine, Residual	ND	0.020	mg/L							
LCS (B117017-BS1)				Prepared & Analyzed: 03/13/15						
Chlorine, Residual	1.0	0.020	mg/L	1.25		82.7	81.9-127			
LCS Dup (B117017-BSD1)				Prepared & Analyzed: 03/13/15						
Chlorine, Residual	1.0	0.020	mg/L	1.25		83.7	81.9-127	1.25	9.61	
Duplicate (B117017-DUP1)				Source: 15C0521-01		Prepared & Analyzed: 03/13/15				
Chlorine, Residual	0.020	0.020	mg/L		ND			NC	52.6	H-03
Matrix Spike (B117017-MS1)				Source: 15C0521-01		Prepared & Analyzed: 03/13/15				
Chlorine, Residual	0.98	0.020	mg/L	1.00	ND	97.7	10-183			H-03
Batch B117045 - SM21-22 2540D										
Blank (B117045-BLK1)				Prepared & Analyzed: 03/16/15						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B117045-BS1)				Prepared & Analyzed: 03/16/15						
Total Suspended Solids	186	10	mg/L	200		93.0	74.6-112			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-03	Sample received after recommended holding time was exceeded.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 200.7 in Water</i>	
Antimony	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Arsenic	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Beryllium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Cadmium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Chromium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Copper	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Iron	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Lead	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Nickel	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Selenium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Silver	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Thallium	CT,MA,NH,NY,RI,NC,ME,VA,NJ
Zinc	CT,MA,NH,NY,RI,NC,ME,VA,NJ
<i>EPA 245.1 in Water</i>	
Mercury	CT,MA,NH,RI,NY,NC,ME,VA,NJ
<i>SM21-22 2540D in Water</i>	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA,NJ
<i>SM21-22 4500 CL G in Water</i>	
Chlorine, Residual	CT,MA,RI,ME
<i>SW-846 8260C in Water</i>	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D in Water</i>	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

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



Sample Receipt Checklist

CLIENT NAME: ECS Woburn RECEIVED BY: MJ DATE: 3/13/15

- 1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
- 2) Does the chain agree with the samples? Yes No
 If not, explain:
- 3) Are all the samples in good condition? Yes No
 If not, explain:
- 4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.3 °C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified Dave Date 3/13/15 Time 17:10

7) Location where samples are stored:

19M

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

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

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

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>2</u>	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic	<u>3</u>	SOC Kit	
250 mL plastic	<u>1</u>	Non-ConTest Container	
40 mL Vial - type listed below	<u>6</u>	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 3 # Methanol _____
 Doc# 277 # Bisulfate _____ # DI Water _____
 Rev. 4 August 2013 # Thiosulfate _____ Unpreserved 3

Time and Date Frozen:

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

Question	Answer (True/False)	Comment
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	F	TRC past hold
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	No times
15) Appropriate sample containers are used.	F	3 VOA for 8270
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	limited sample volume TPH and 8270
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Doc #277 Rev. 4 August 2013

Who notified of False statements?
 Log-In Technician Initials:

Date/Time:
 Date/Time:

MJ 3/13/15

17:10

ATTACHMENT III



United States Department of the Interior



FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
<http://www.fws.gov/newengland>

January 7, 2015

To Whom It May Concern:

This project was reviewed for the presence of federally listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

<http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm> (accessed January 2015)

Based on information currently available to us, no federally listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required. No further Endangered Species Act coordination is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Maria Tur of this office at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office

**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES
IN MASSACHUSETTS**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Barnstable	Piping Plover	Threatened	Coastal Beaches	All Towns
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Chatham
	Sandplain gerardia	Endangered	Open areas with sandy soils.	Sandwich and Falmouth.
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Bourne (north of the Cape Cod Canal)
	Red Knot ¹	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Berkshire	Bog Turtle	Threatened	Wetlands	Egremont and Sheffield
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Bristol	Piping Plover	Threatened	Coastal Beaches	Fairhaven, Dartmouth, Westport
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Fairhaven, New Bedford, Dartmouth, Westport
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Taunton
	Red Knot ¹	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Dukes	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Piping Plover	Threatened	Coastal Beaches	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Aquinnah and Chilmark
	Sandplain gerardia	Endangered	Open areas with sandy soils.	West Tisbury
	Red Knot ¹	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES
IN MASSACHUSETTS**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Gloucester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
	Red Knot ¹	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague, Warwick
	Dwarf wedgemussel	Endangered	Mill River	Whately
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hatfield, Amherst and Northampton
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
	Red Knot ¹	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES
IN MASSACHUSETTS**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Plymouth	Piping Plover	Threatened	Coastal Beaches	Scituate, Marshfield, Duxbury, Plymouth, Wareham and Mattapoissett
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Kingston, Middleborough, Carver, Plymouth, Bourne, Wareham, Halifax, and Pembroke
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Marion, Wareham, and Mattapoissett.
	Red Knot ¹	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Suffolk	Piping Plover	Threatened	Coastal Beaches	Revere, Winthrop
	Red Knot ¹	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Worcester	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Leominster
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

¹Migratory only, scattered along the coast in small numbers

-Eastern cougar and gray wolf are considered extirpated in Massachusetts.

-Endangered gray wolves are not known to be present in Massachusetts, but dispersing individuals from source populations in Canada may occur statewide.

-Critical habitat for the Northern Red-bellied Cooter is present in Plymouth County.

**Remediation General Permit
Appendix I**

Areas of Critical Environmental Concern (ACEC) in Massachusetts

This appendix presents the June 2009 list of Massachusetts ACECs, Towns with ACECs within their Boundaries, and a map showing ACECs. If the project proposed is located in one of the communities listed on the “Towns with ACECs within their Boundaries”, the project may be located in an ACEC.

To confirm whether the project location is in an ACEC, contact the local Conservation Commission or the Massachusetts Department of Conservation & Recreation (DCR) ACEC program at:

Elizabeth Sorenson, Director
ACEC Program
Massachusetts Department of Conservation and Recreation
Bureau of Planning and Resource Protection
251 Causeway St., Ste. 700, Boston, MA 02114-2104
Phone: 617-626-1394
Email: Elizabeth.Sorenson@state.ma.us
Fax: 617-626-1349

For further information, please reference the Massachusetts DCR ACEC Program Home website at: <http://www.mass.gov/dcr/stewardship/acec/index.htm>

MASSACHUSETTS AREAS OF CRITICAL ENVIRONMENTAL CONCERN

June 2009

Total Approximate Acreage: 268,000 acres

Approximate acreage and designation date follow ACEC names below.

Bourne Back River

(1,850 acres, 1989) Bourne

Canoe River Aquifer and Associated Areas (17,200 acres, 1991) Easton, Foxborough, Mansfield, Norton, Sharon, and Taunton

Cedar Swamp

(1,650 acres, 1975) Hopkinton and Westborough

Central Nashua River Valley

(12,900 acres, 1996) Bolton, Harvard, Lancaster, and Leominster

Cranberry Brook Watershed

(1,050 acres, 1983) Braintree and Holbrook

Ellisville Harbor

(600 acres, 1980) Plymouth

Fowl Meadow and Ponkapoag Bog

(8,350 acres, 1992) Boston, Canton, Dedham, Milton, Norwood, Randolph, Sharon, and Westwood

Golden Hills

(500 acres, 1987) Melrose, Saugus, and Wakefield

Great Marsh (originally designated as Parker River/Essex Bay)

(25,500 acres, 1979) Essex, Gloucester, Ipswich, Newbury, and Rowley

Herring River Watershed

(4,450 acres, 1991) Bourne and Plymouth

Hinsdale Flats Watershed

(14,500 acres, 1992) Dalton, Hinsdale, Peru, and Washington

Hockomock Swamp

(16,950 acres, 1990) Bridgewater, Easton, Norton, Raynham, Taunton, and West Bridgewater

Inner Cape Cod Bay

(2,600 acres, 1985) Brewster, Eastham, and Orleans

Kampoosa Bog Drainage Basin

(1,350 acres, 1995) Lee and Stockbridge

Karner Brook Watershed

(7,000 acres, 1992) Egremont and Mount Washington

Miscoe, Warren, and Whitehall Watersheds

(8,700 acres, 2000) Grafton, Hopkinton, and Upton

Neponset River Estuary

(1,300 acres, 1995) Boston, Milton, and Quincy

Petapawag

(25,680 acres, 2002) Ayer, Dunstable, Groton, Pepperell, and Tyngsborough

Pleasant Bay

(9,240 acres, 1987) Brewster, Chatham, Harwich, and Orleans

Pocasset River

(160 acres, 1980) Bourne

Rumney Marshes

(2,800 acres, 1988) Boston, Lynn, Revere, Saugus, and Winthrop

Sandy Neck Barrier Beach System

(9,130 acres, 1978) Barnstable and Sandwich

Schenob Brook Drainage Basin

(13,750 acres, 1990) Mount Washington and Sheffield

Squannassit

(37,420 acres, 2002) Ashby, Ayer, Groton, Harvard, Lancaster, Lunenburg, Pepperell, Shirley, and Townsend

Three Mile River Watershed

(14,280 acres, 2008) Dighton, Norton, Taunton

Upper Housatonic River

(12,280 acres, 2009) Lee, Lenox, Pittsfield, Washington

Waquoit Bay

(2,580 acres, 1979) Falmouth and Mashpee

Weir River

(950 acres, 1986) Cohasset, Hingham, and Hull

Wellfleet Harbor

(12,480 acres, 1989) Eastham, Truro, and Wellfleet

Weymouth Back River

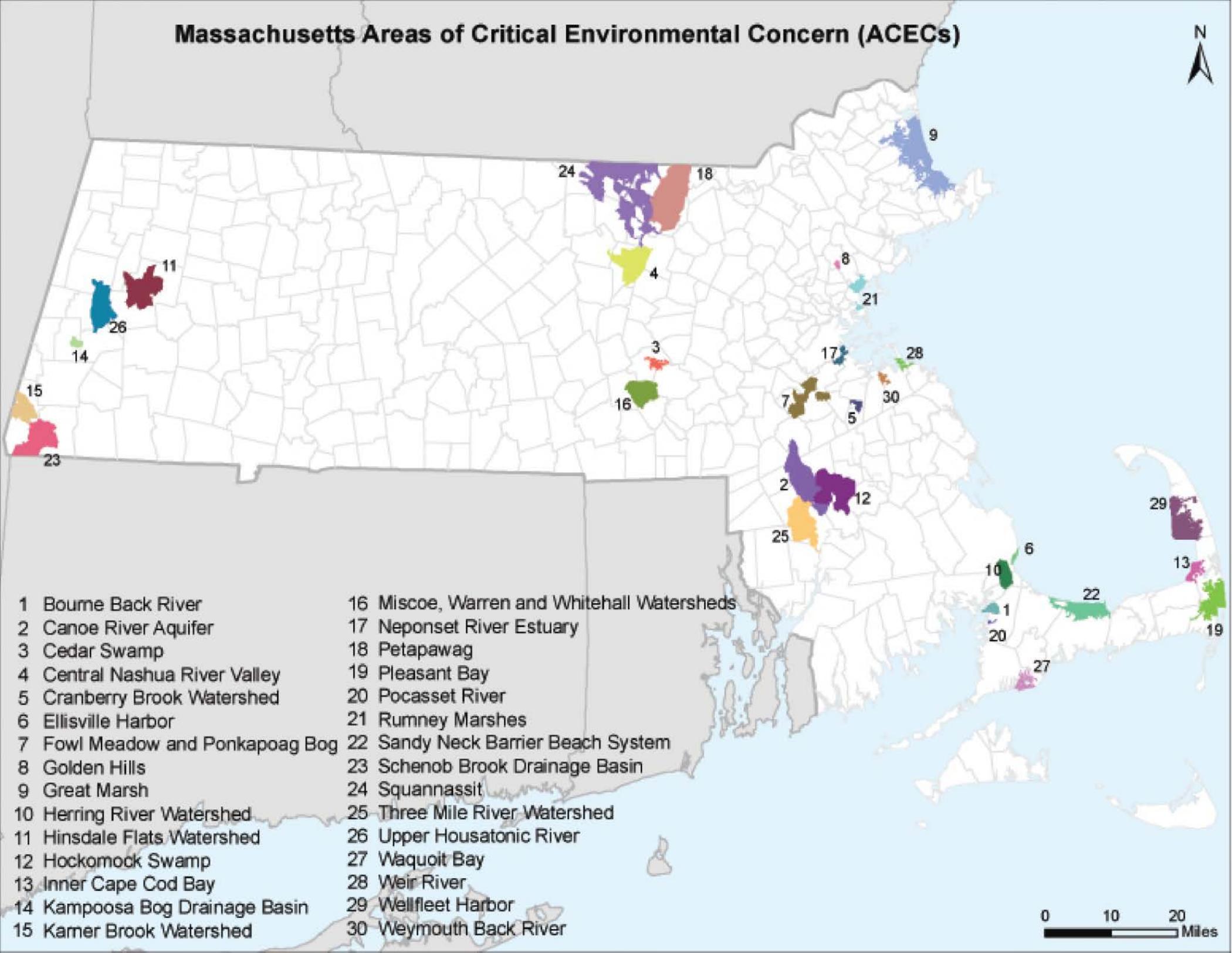
(800 acres, 1982) Hingham and Weymouth

Towns with ACECs within their Boundaries

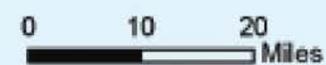
June 2009

TOWN	ACEC	TOWN	ACEC
Ashby	Squannassit	Mt. Washington	Karner Brook Watershed
Ayer	Petapawag		Schenob Brook
	Squannassit	Newbury	Great Marsh
Barnstable	Sandy Neck Barrier Beach System	Norton	Hockomock Swamp
Bolton	Central Nashua River Valley		Canoe River Aquifer
Boston	Rumney Marshes		Three Mile River Watershed
	Fowl Meadow and Ponkapoag Bog	Norwood	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary	Orleans	Inner Cape Cod Bay
Bourne	Pocasset River		Pleasant Bay
	Bourne Back River	Pepperell	Petapawag
	Herring River Watershed		Squannassit
Braintree	Cranberry Brook Watershed	Peru	Hinsdale Flats Watershed
Brewster	Pleasant Bay	Pittsfield	Upper Housatonic River
	Inner Cape Cod Bay	Plymouth	Herring River Watershed
Bridgewater	Hockomock Swamp		Ellisville Harbor
Canton	Fowl Meadow and Ponkapoag Bog	Quincy	Neponset River Estuary
Chatham	Pleasant Bay	Randolph	Fowl Meadow and Ponkapoag Bog
Cohasset	Weir River	Raynham	Hockomock Swamp
Dalton	Hinsdale Flats Watershed	Revere	Rumney Marshes
Dedham	Fowl Meadow and Ponkapoag Bog	Rowley	Great Marsh
Dighton	Three Mile River Watershed	Sandwich	Sandy Neck Barrier Beach System
Dunstable	Petapawag	Saugus	Rumney Marshes
Eastham	Inner Cape Cod Bay		Golden Hills
	Wellfleet Harbor	Sharon	Canoe River Aquifer
Easton	Canoe River Aquifer		Fowl Meadow and Ponkapoag Bog
	Hockomock Swamp	Sheffield	Schenob Brook
Egremont	Karner Brook Watershed	Shirley	Squannassit
Essex	Great Marsh	Stockbridge	Kampoosa Bog Drainage Basin
Falmouth	Waquoit Bay	Taunton	Hockomock Swamp
Foxborough	Canoe River Aquifer		Canoe River Aquifer
Gloucester	Great Marsh		Three Mile River Watershed
Grafton	Miscoe-Warren-Whitehall Watersheds	Truro	Wellfleet Harbor
		Townsend	Squannassit
Groton	Petapawag	Tyngsborough	Petapawag
	Squannassit	Upton	Miscoe-Warren-Whitehall Watersheds
Harvard	Central Nashua River Valley		
	Squannassit	Wakefield	Golden Hills
Harwich	Pleasant Bay	Washington	Hinsdale Flats Watershed
Hingham	Weir River		Upper Housatonic River
	Weymouth Back River	Wellfleet	Wellfleet Harbor
Hinsdale	Hinsdale Flats Watershed	W Bridgewater	Hockomock Swamp
Holbrook	Cranberry Brook Watershed	Westborough	Cedar Swamp
Hopkinton	Miscoe-Warren-Whitehall Watersheds	Westwood	Fowl Meadow and Ponkapoag Bog
		Weymouth	Weymouth Back River
	Cedar Swamp	Winthrop	Rumney Marshes
Hull	Weir River		
Ipswich	Great Marsh		
Lancaster	Central Nashua River Valley		
	Squannassit		
Lee	Kampoosa Bog Drainage Basin		
	Upper Housatonic River		
Lenox	Upper Housatonic River		
Leominster	Central Nashua River Valley		
Lunenburg	Squannassit		
Lynn	Rumney Marshes		
Mansfield	Canoe River Aquifer		
Mashpee	Waquoit Bay		
Melrose	Golden Hills		
Milton	Fowl Meadow and Ponkapoag Bog		
	Neponset River Estuary		

Massachusetts Areas of Critical Environmental Concern (ACECs)



- | | |
|---------------------------------|--|
| 1 Bourne Back River | 16 Miscoe, Warren and Whitehall Watersheds |
| 2 Canoe River Aquifer | 17 Neponset River Estuary |
| 3 Cedar Swamp | 18 Petapawag |
| 4 Central Nashua River Valley | 19 Pleasant Bay |
| 5 Cranberry Brook Watershed | 20 Pocasset River |
| 6 Ellisville Harbor | 21 Rumney Marshes |
| 7 Fowl Meadow and Ponkapoag Bog | 22 Sandy Neck Barrier Beach System |
| 8 Golden Hills | 23 Schenob Brook Drainage Basin |
| 9 Great Marsh | 24 Squannassit |
| 10 Herring River Watershed | 25 Three Mile River Watershed |
| 11 Hinsdale Flats Watershed | 26 Upper Housatonic River |
| 12 Hockomock Swamp | 27 Waquoit Bay |
| 13 Inner Cape Cod Bay | 28 Weir River |
| 14 Kamposoa Bog Drainage Basin | 29 Wellfleet Harbor |
| 15 Kamer Brook Watershed | 30 Weymouth Back River |



ATTACHMENT IV

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Criteria: Town(s): Waltham; Street Name: moody; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
WLT.666	Crossing Tender's Shanty - Fitchburg Railroad	Moody St	Waltham	1870
WLT.913	Boston and Maine Signal Bridge	Moody St	Waltham	1930
WLT.945	Moody Street Bridge over Charles River	Moody St	Waltham	1943
WLT.963	Columbus, Christopher Memorial	Moody St	Waltham	1992
WLT.195	Parmenter Block	90 Moody St	Waltham	1887
WLT.499		123-129 Moody St	Waltham	1888
WLT.196	Boston Manufacturing Company Mill #1	144 Moody St	Waltham	1814
WLT.701	Boston Manufacturing Company Mill #1	144 Moody St	Waltham	1816
WLT.702	Boston Manufacturing Company Mill #1	144 Moody St	Waltham	1843
WLT.703	Finishing Building - Boston Manufacturing Company	144 Moody St	Waltham	1905
WLT.704	Boston Manufacturing Company Mill #2	144 Moody St	Waltham	1852
WLT.705	Boston Manufacturing Company Mill #3	144 Moody St	Waltham	1873
WLT.706	Picker House - Boston Manufacturing Company	144 Moody St	Waltham	1873
WLT.707	Boston Manufacturing Company Mill #4	144 Moody St	Waltham	1890
WLT.708	Boilder House - Boston Manufacturing Company	144 Moody St	Waltham	1911
WLT.709	Office Building - Boston Manufacturing Company	144 Moody St	Waltham	1820
WLT.710	Machine Shop - Boston Manufacturing Company	144 Moody St	Waltham	1919
WLT.711	Engine House - Boston Manufacturing Company	144 Moody St	Waltham	1901
WLT.712	Generator House - Boston Manufacturing Company	144 Moody St	Waltham	1902
WLT.713	Turbine House - Boston Manufacturing Company	144 Moody St	Waltham	1902
WLT.714	Boiler House - Boston Manufacturing Company	144 Moody St	Waltham	1873
WLT.715	Weaving Mill - Boston Manufacturing Company	144 Moody St	Waltham	1921
WLT.917	Charles River Falls Dam - Boston Manufacturing Co.	144 Moody St	Waltham	1847
WLT.501	Grover Cronin Department Store	223 Moody St	Waltham	1879
WLT.502	Grover Cronin Department Store	223 Moody St	Waltham	1899
WLT.503	Grover Cronin Department Store	223 Moody St	Waltham	1907
WLT.675		240-254 Moody St	Waltham	1930
WLT.559	Hall, Henry C. Building	265-271 Moody St	Waltham	1929
WLT.553		266-274 Moody St	Waltham	1876
WLT.676		275-277 Moody St	Waltham	1950
WLT.555	Ancient Order of United Workmen Building	282-290 Moody St	Waltham	1887
WLT.560	Lincoln Building	283 Moody St	Waltham	1873
WLT.561	Woolworth, F. W. Company Building	299-301 Moody St	Waltham	1930
WLT.556		300-314 Moody St	Waltham	
WLT.557	Waltham National Bank - South Branch	318 Moody St	Waltham	1828
WLT.562	Kresge Building	329-331 Moody St	Waltham	1929
WLT.565	Broderick, Patrick Building	362-366 Moody St	Waltham	1915
WLT.566	Harrington Block	376-390 Moody St	Waltham	1915
WLT.570	Stark, John Building	416-424 Moody St	Waltham	1891
WLT.569		426 Moody St	Waltham	1912
WLT.571		443-455 Moody St	Waltham	
WLT.572		457-467 Moody St	Waltham	1928
WLT.573	Miltonia, The	469-489 Moody St	Waltham	1915
WLT.576	Waltham South Junior High School	510 Moody St	Waltham	1923
WLT.59	South Waltham Fire Station	533 Moody St	Waltham	1890
WLT.57	Immanuel Methodist Church	545 Moody St	Waltham	1889
WLT.67	Brooks House	546 Moody St	Waltham	1854
WLT.60		643 Moody St	Waltham	1890
WLT.74		756 Moody St	Waltham	1860
WLT.75	Martin, Aaron House	786 Moody St	Waltham	1886