May 20, 2010

US Environmental Protection Agency
Shelly Puleo
Victor Alvarez
Industrial NPDES Permits (CIP)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Re: Notice of Intent, Remediation General Permit
65 Grove Street, Watertown, Massachusetts

AMEC Earth and Environmental, Inc. (AMEC) is submitting this Notice of Intent (NOI) form on behalf of GE Water and Process Technologies, Inc. (GE WPT) for the property located at 65 Grove Street in Watertown, Massachusetts (the Site). AMEC will be constructing a dual-phase vacuum extraction system to remediate impacted soil and groundwater at the Site. This NOI is being submitted in order to obtain a Remediation General Permit to allow the discharge of treated groundwater to an unnamed tributary locally known as Sawins Pond or Sawins Brook via the local municipal storm sewer system. Sawins Pond or Sawins Brook ultimately discharges to the Charles River. The remediation activities are being conducted as a Release Abatement Measure (RAM) in accordance with the Massachusetts Contingency Plan (RTN 3-29027).

The Town of Watertown has already issued a permit dated April 28, 2010 to allow the discharge of the treated groundwater into the municipal storm sewer system (MS4).

Please note that Section 5e of the NOI Application requires the seven day-ten year (7Q10) low flow of the receiving waters, however there is no such data available for Sawins Brook from the USGS at this time. The effluent discharge is not expected to contain any metals and therefore, no need for dilution calculations. However, to meet this application requirement, 7Q10 data was obtained from the USGS and EPA Charles River Watershed Basin Report and included in this section, as the Sawins Brook is a tributary of the Charles River.

If you have any questions regarding this notice, please contact me at (978) 692-9090.

Sincerely,

Mike Robinson
Project Scientist

cc: Cliff Chambliss – GE WPT
Colleen Connor – GE WPT

Attachment 1: Notice of Intent
Attachment 2: Process Flow Diagram
Attachment 3: Site Layout Figure
Attachment 4: Discharge Locations
Attachment 5: Laboratory Data
Attachment 6:Town of Watertown, MA Dewatering Drainage Permit dated April 28, 2010

AMEC Earth & Environmental, Inc.
2 Robbins Road
Westford, MA 01886 USA
Tel (978) 692-9090
Fax (978) 692-6633 www.amec.com

Attachment 1: Notice of Intent

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

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

a) Name of **facility/site**: Grove Street Manufacturing		**Facility/site** address: 65 Grove Street, Watertown, MA		
Location of **facility/site**: longitude: -71.15450 latitude: 42.37080	Facility SIC code(s): 3589,3081	Street: 65 Grove Street		
b) Name of **facility/site owner:** GE Ionics		Town: Watertown		
Email address of owner: colleen.connor@ge.com		State: MA	Zip: 02472	County: Middlesex
Telephone no.of facility/site **owner**: 1-203-373-2756				
Fax no. of facility/site **owner**: 1-203-373-3791		**Owner** is (check one): 1. Federal____ 2. State/Tribal_____ 3. Private__✓___ 4. other, if so, describe:		
Address of **owner** (if different from site):				
Street: 3135 Easton Tpke W1B				
Town: Fairfield	State: CT	Zip: 06828	County: USA	
c) Legal name of **operator**: AMEC Earth & Environmental	**Operator** telephone no: 978-692-9090			
	Operator fax no.: 978-692-6633		**Operator** email: mike.j.robinson@amec.com	
Operator contact name and title: Mike Robinson, Project Manager				
Address of **operator** (if different from owner):	Street: 2 Robbins Road			
Town: Westford	State: MA	Zip: 01886	County: Middlesex	

d) Check "yes" or "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No✓, if "yes," number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No✓, if "yes," date and tracking #:
3. Is the discharge a "new discharge"as defined by 40 CFR 122.2? Yes✓ No___
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes✓ No__

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes___ No_✓_ If "yes," 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 storm water general permit? Y___ N_✓_, if Y, number: 2. phase I or II construction storm water general permit? Y___ N_✓_, if Y, number: 3. individual NPDES permit? Y___ N_✓_, if Y, number: 4. any other water quality related permit? Y___ N_✓_, if Y, number:

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

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

Groundwater treatment system discharge associated with a proposed remediation system.

b) Provide the following information about each discharge:	1) Number of discharge points: one	2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft3/s)? Max. flow 0.134 cfs Average flow 0.080 cfs Is maximum flow a **design value**? Y_✓_ N____ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.

3) Latitude and longitude of each discharge within 100 feet: pt.1:long. -71.15438 lat. 42.36720; pt.2: long._____ lat._____; pt.3: long._____ lat._____;
pt.4:long._____ lat._____; pt.5: long._____ lat._____; pt.6:long._____ lat._____; pt.7: long._____ lat._____; pt.8:long._____ lat._____; etc.

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent_✓_or seasonal_____? Is discharge ongoing Yes_✓_ No_____?__

c) Expected dates of discharge (mm/dd/yy): start 06/01/10 end 06/01/11

d) Please attach a line drawing or flow schematic showing water flow through the facility including:
1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).

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

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

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

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

PARAMETER	**Believe Absent**	**Believe Present**	**# of Samples (1 min-imum)**	**Type of Sample (e.g., grab)**	**Analytical Method Used (method #)**	**Minimum Level (ML) of Test Method**	**Maximum daily value**		**Avg. daily value**	
							concentration (ug/l)	**mass (kg)**	**concentration (ug/l)**	**mass (kg)**
1. Total Suspended Solids	✓									
2. Total Residual Chlorine	✓									
3. Total Petroleum Hydrocarbons	✓									
4. Cyanide	✓									
5. Benzene	✓									
6. Toluene	✓									
7. Ethylbenzene	✓									
8. (m,p,o) Xylenes	✓									
9. Total BTEX[4]	✓									

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide [5] (1,2- Dibromo-methane)	✓									
11. Methyl-tert-Butyl Ether (MtBE)	✓									
12. tert-Butyl Alcohol (TBA)	✓									
13. tert-Amyl Methyl Ether (TAME)	✓									
14. Naphthalene	✓									
15. Carbon Tetra-chloride	✓									
16. 1,4 Dichlorobenzene	✓									
17. 1,2 Dichlorobenzene	✓									
18. 1,3 Dichlorobenzene	✓									
19. 1,1 Dichloroethane		✓	4	grab	EPA 8260	5 ppb	8.3	0.0023	4	0.0007
20. 1,2 Dichloroethane	✓									
21. 1,1 Dichloroethylene	✓									
22. cis-1,2 Dichloro-ethylene		✓	4	grab	EPA 8260	5 ppb	106	0.029	50	0.0082
23. Dichloromethane (Methylene Chloride)	✓									
24. Tetrachloroethylene		✓	4	grab	EPA 8260	5 ppb	419	0.11	200	0.033

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓									
26. 1,1,2 Trichloroethane	✓									
27. Trichloroethylene		✓	4	grab	EPA 8260	5 ppb	174	0.047	85	0.014
28. Vinyl Chloride	✓									
29. Acetone	✓									
30. 1,4 Dioxane	✓									
31. Total Phenols	✓									
32. Pentachlorophenol	✓									
33. Total Phthalates [6] (Phthalate esthers)	✓									
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓									
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓									
a. Benzo(a) Anthracene	✓									
b. Benzo(a) Pyrene	✓									
c. Benzo(b)Fluoranthene	✓									
d. Benzo(k) Fluoranthene	✓									
e. Chrysene	✓									

[6] The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓									
g. Indeno(1,2,3-cd) Pyrene	✓									
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓									
h. Acenaphthene	✓									
i. Acenaphthylene	✓									
j. Anthracene	✓									
k. Benzo(ghi) Perylene	✓									
l. Fluoranthene	✓									
m. Fluorene	✓									
n. Naphthalene-	✓									
o. Phenanthrene	✓									
p. Pyrene	✓									
37. Total Polychlorinated Biphenyls (PCBs)	✓									
***3*8. Antimony**	✓									
39. Arsenic	✓									
40. Cadmium	✓									
41. Chromium III	✓									
42. Chromium VI	✓									

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	**mass** (kg)	**concentration** (ug/l)	**mass** (kg)
43. Copper	✓									
44. Lead	✓									
45. Mercury	✓									
46. Nickel	✓									
47. Selenium	✓									
48. Silver	✓									
49. Zinc	✓									
50. Iron	✓									
Other (describe):	✓									

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

Step 1: Do any of the metals in the influent have a **reasonable potential** to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y____ N__✓__	If yes, which metals?
Step 2: For any metals which have **reasonable potential** to exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals:_____ DF: _____	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____ N___ If "Yes," list which metals:

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:						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank ✓	Air stripper ✓	Oil/water separator	Equalization tanks	Bag filter ✓	GAC filter ✓
	Chlorination	Dechlorination	Other (please describe):			
c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate**(s) (gallons per minute) of the treatment system: Average flow rate of discharge 30 Maximum flow rate of treatment system 50 Design flow rate of treatment system 40						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): N/A						

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

a) Identify the discharge pathway:	Direct_____	Within facility__	Storm drain ✓	River/brook____	Wetlands_____	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: Treated Groundwater pumped to nearby catch basin that drains to an unnamed tributary locally known as Sawins Pond and Sawins Brook.						
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 Class B,						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 3.4cfs (Charles River) cfs Please attach any calculation sheets used to support stream flow and dilution calculations.						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ✓ No____ If yes, for which pollutant(s)? pathogens, E-coli Is there a TMDL? Yes ✓ No____ If yes, for which pollutant(s)? pathogens, E-coli						

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

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

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes_____ No__✓____ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes_____ No__✓____

7. Supplemental information. :

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

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

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

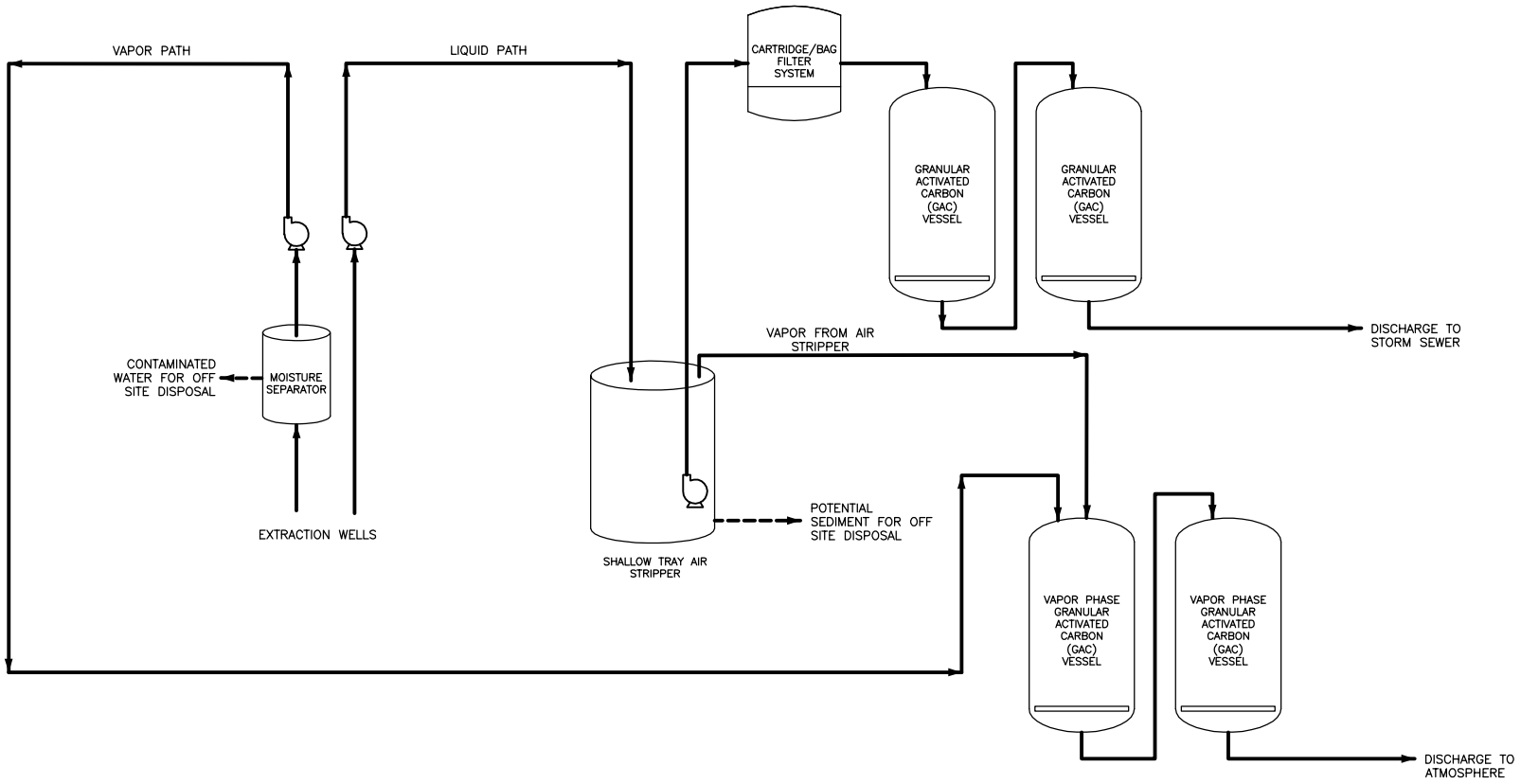
Facility/Site Name: GE Ionics, Inc.

Operator signature: Colleen H. Common

Title: EHS Manager and Counsel

Date: 5/17/10

Attachment 2: Process Flow Diagram



AMEC
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Telephone: (978) 692-9090
Fax: (978) 692-6633
Web: www.amec.com

CLIENT:
GE WATER AND PROCESS TECHNOLOGIES, INC.

PROJECT:
WATERTOWN, MASSACHUSETTS

REV	DATE	DESCRIPTION

ISSUE / REVISION:

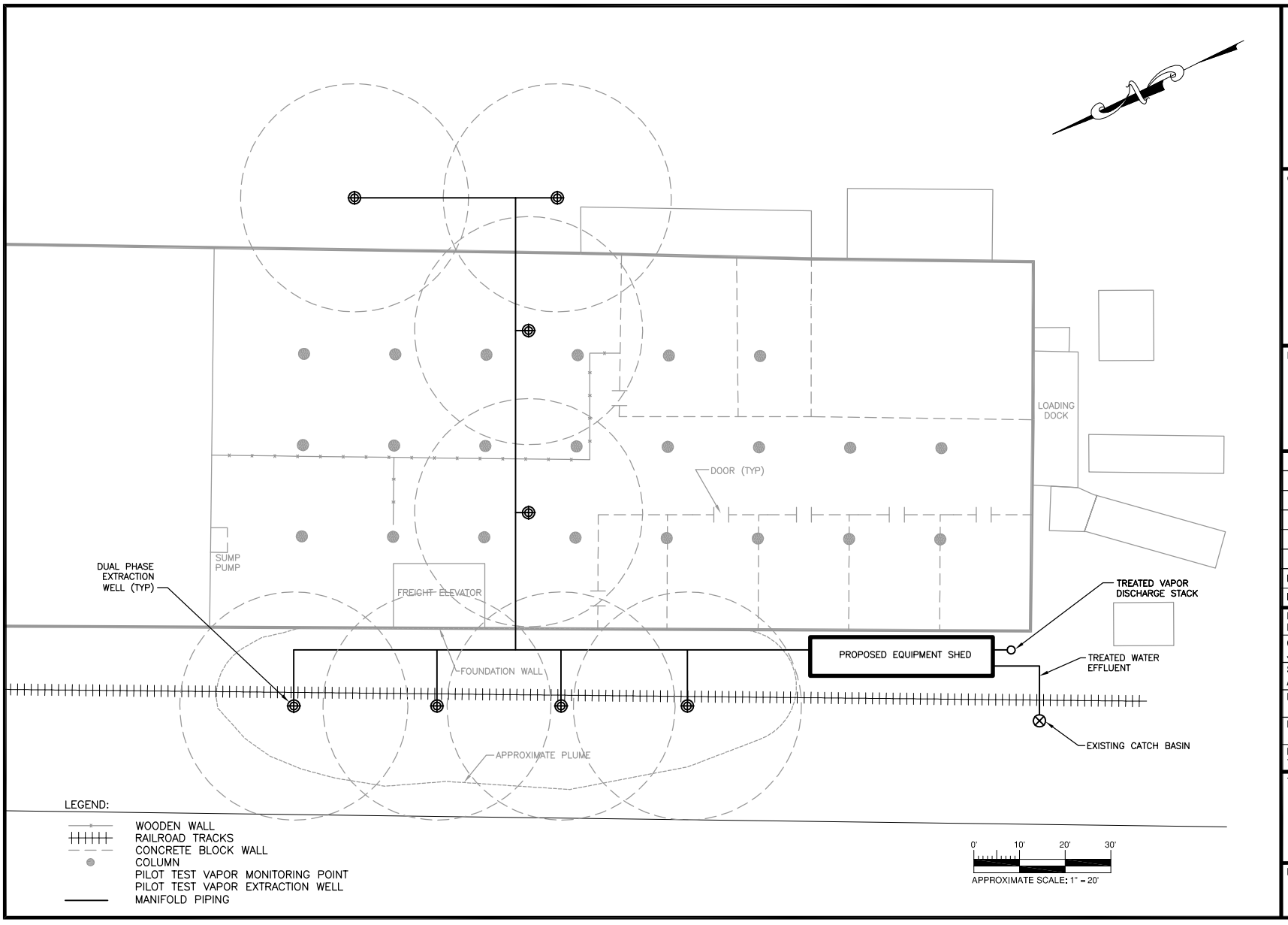
DESIGNED BY: LEL/RJB	DRAWN BY: DED/RJB
CHECKED BY: JT	DATE: 02/19/10
SCALE: AS SHOWN	ISSUE / REVISION: 0
DISCIPLINE LEAD:	PROJECT MANAGER:
PROJECT ENGINEER:	
PROJECT NUMBER: 778190012	

TITLE:
DUAL PHASE EXTRACTION SYSTEM
PROCESS FLOW DIAGRAM

FIGURE NUMBER:
8

U:\DEPT-EGNR\GE\Watertown, MA\CAD\PFD - Watertown.dwg - Figure 8 - Apr. 02, 2010 3:47pm - leo.laviolette

Attachment 3: Site Layout Figure



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REV	DATE	DESCRIPTION

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DESIGNED BY: LEL/RJB	DRAWN BY: DED/RJB
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DISCIPLINE LEAD:	PROJECT MANAGER:
PROJECT ENGINEER:	
PROJECT NUMBER: 778190012	

TITLE:
DUAL PHASE EXTRACTION SYSTEM LAYOUT

FIGURE NUMBER:
9

U:\DEPT-EGNR\GE\Watertown, MA\CAD\dual phase.dwg – Vertical Wells – Apr. 02, 2010 3:26pm – leo.laviolette

Attachment 4: Discharge Locations

USGS Somerville, Massachusetts, United States 01 Jul 1991

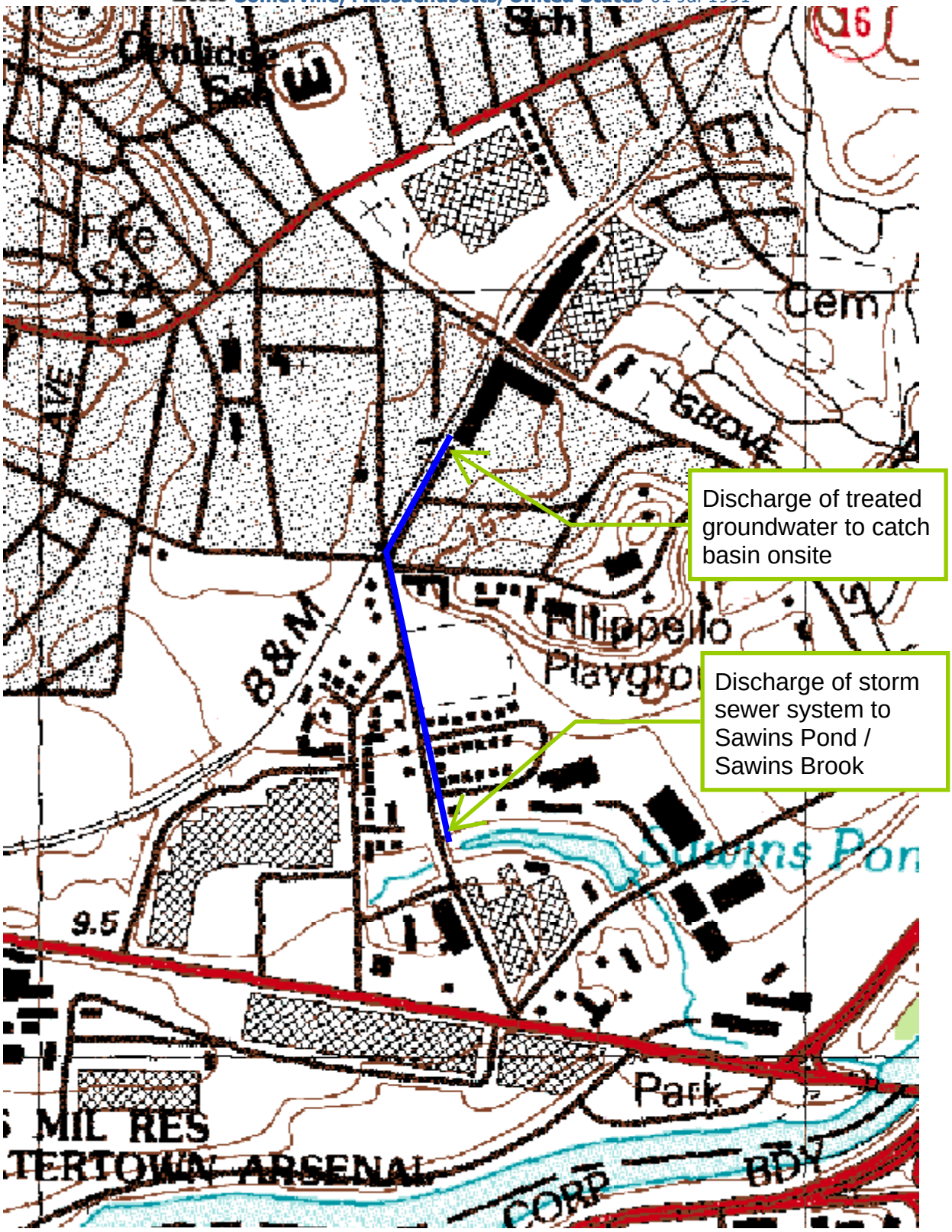

Image courtesy of the U.S. Geological Survey

Attachment 5: Town of Watertown Dewatering Drainage Permit

DEPARTMENT OF PUBLIC WORKS
TOWN OF WATERTOWN, MASSACHUSETTS

APPLICATION FOR A DEWATERING DRAINAGE PERMIT

To the Town of Watertown, Massachusetts:

The undersigned, being the Owner's Agent (Ionics GE Power + Process)
(Owner, Owner's Agent)

of the property located at 65 Grove St., does
(Number) *(Street)*

hereby request a permit to discharge dewatering drainage to the public sewer to serve the

GE Power & Process Site
(Residence, Commercial Building, etc.)

at said location.

1. The following indicated substance(s) will be discharge from the proposed construction area into the sewer:

Substance	Substance
Treated Groundwater discharge to storm sewer	
(50 gpm max.)	
(0 gpm min.)	

Specify other substances

2. The maximum number of days discharge will occur: ≈ 2 years or 730 days
3. Beginning on June 1 2010 and ending on June 1 2012
4. The name and address of person or firm who will perfrom the proposed work is
AMEC Earth & Environmental, 2 Robbins Rd. Westford MA 01886
5. Plans and specifications for the method of dewatering drainage discharge are attached hereunto as Exhibit "A".

In consideration of the granting of this permit, the undersigned agrees:

1. To accept and abide by all provisions of the Rules and Regulations for discharge into and for the Use of Public Sewers of the Town of Watertown, Massachusetts, and of all other pertinent rules and regulations that may be adopted in the future.
2. To maintain the building sewer at no expense to the Town.
3. To notify the Superintendent when the building sewer is ready for inspection and connection to the public sewer, but before any portion of the work is covered.

Date 4/27/2010

Signed Leo Lamolette, AMEC E&E
(Applicant)

2 Robbins Rd. Westford, MA 01886
(Address of Applicant)

$ n/a inspection fee paid.

(Certification by Town Treasurer)

Application approved and permit issued:

Date 4/28/10

Number

Signed
Superintendent

3727/ENV-3162

White - Original to Applicant • Canary - DPW Adminstration • Pink - Water & Sewer

Attachment 6: Laboratory Data

Table 4a
Groundwater Analytical Results - Shallow Wells
65 Grove St, Watertown MA

	MW-10		MW 11		MW-21		MW-24
	9/23/09	2/4/10	9/23/09	2/4/10	12/9/09	2/4/10	2/4/10
VOC							
Acetone	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.10 U	0.5 U	0.5 U
Bromobenzene	-	-	-	-	10 U	-	-
Bromochloromethane	-	-	-	-	10 U	-	-
Bromodichloromethane	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Bromoform	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Bromomethane	2 U	2 U	2 U	2 U	4 U	2 U	2 U
2-Butanone (MEK)	5 U	5 U	5 U	5 U	10 U	5 U	5 U
n-Butylbenzene	-	-	-	-	10 U	-	-
sec-Butylbenzene	-	-	-	-	10 U	-	-
tert-Butylbenzene	-	-	-	-	10 U	-	-
Carbon disulfide	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Carbon tetrachloride	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Chlorobenzene	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Chloroethane	2 U	2 U	2 U	2 U	4 U	2 U	2 U
Chloroform	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Chloromethane	2 U	2 U	2 U	2 U	4 U	2 U	2 U
o-Chlorotoluene	-	-	-	-	10 U	-	-
p-Chlorotoluene	-	-	-	-	10 U	-	-
Di-Isopropyl ether	-	-	-	-	4 U	-	-
1,2-Dibromo-3-chloropropane	-	-	-	-	10 U	-	-
Dibromochloromethane	1 U	1 U	1 U	1 U	2 U	1 U	1 U
1,2-Dibromoethane	-	-	-	-	4 U	-	-
1,2-Dichlorobenzene	-	-	-	-	2 U	-	-
1,3-Dichlorobenzene	-	-	-	-	2 U	-	-
1,4-Dichlorobenzene	-	-	-	-	2 U	-	-
Dichlorodifluoromethane	-	-	-	-	4 U	-	-
1,1-Dichloroethane	1 U	1 U	1 U	1 U	8.3	4.8	1 U
1,2-Dichloroethane	1 U	1 U	1 U	1 U	2 U	1 U	1 U
1,1-Dichloroethene	1 U	1 U	1 U	1 U	2 U	1 U	1 U
cis-1,2-Dichloroethene	11.2	5.1	1 U	1 U	106	77.8	3.3
trans-1,2-Dichloroethene	5 U	1 U	5 U	5 U	2 U	1 U	1 U
1,2-Dichloropropane	2 U	2 U	2 U	2 U	4 U	2 U	2 U
1,3-Dichloropropane	-	-	-	-	10 U	-	-
2,2-Dichloropropane	-	-	-	-	10 U	-	-
1,1-Dichloropropene	-	-	-	-	10 U	-	-
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U
1,4-Dioxane	-	-	-	-	50 U	-	-
Ethyl Ether	-	-	-	-	10 U	-	-
Ethylbenzene	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Hexachlorobutadiene	-	-	-	-	10 U	-	-
2-Hexanone	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Isopropylbenzene	-	-	-	-	10 U	-	-
p-Isopropyltoluene	-	-	-	-	10 U	-	-
Methyl Tert Butyl Ether	-	-	-	-	2 U	-	-
4-Methyl-2-pentanone (MIBK)	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Methylene bromide	-	-	-	-	10 U	-	-
Methylene chloride	2 U	2 U	2 U	2 U	4 U	2 U	2 U
Naphthalene	-	-	-	-	10 U	-	-
n-Propylbenzene	-	-	-	-	10 U	-	-
Styrene	5 U	5 U	5 U	5 U	10 U	5 U	5 U
tert-Amyl Methyl Ether	-	-	-	-	4 U	-	-
tert-Butyl Ethyl Ether	-	-	-	-	4 U	-	-
1,1,1,2-Tetrachloroethane	-	-	-	-	10 U	-	-
1,1,2,2-Tetrachloroethane	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Tetrachloroethene	159	90	14.1	8.2	419	262	31.6
Tetrahydrofuran	-	-	-	-	20 U	-	-
Toluene	1 U	1 U	1 U	1 U	4 U	1 U	1 U
1,2,3-Trichlorobenzene	-	-	-	-	10 U	-	-
1,2,4-Trichlorobenzene	-	-	-	-	10 U	-	-
1,1,1-Trichloroethane	1 U	1 U	1 U	1 U	43.4	18.4	1.4
1,1,2-Trichloroethane	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Trichloroethene	27.9	16.5	22.9	9.7	174	117	13.7
Trichlorofluoromethane	-	-	-	-	2 U	-	-
1,2,3-Trichloropropane	-	-	-	-	10 U	-	-
1,2,4-Trimethylbenzene	-	-	-	-	10 U	-	-
1,3,5-Trimethylbenzene	-	-	-	-	10 U	-	-
Vinyl chloride	1 U	1 U	1 U	1 U	2 U	1 U	1 U

Table 4a
Groundwater Analytical Results - Shallow Wells
65 Grove St, Watertown MA

	MW-10		MW 11		MW-21		MW-24
	9/23/09	2/4/10	9/23/09	2/4/10	12/9/09	2/4/10	2/4/10
m,p-Xylene	-	-	-	-	2 U	-	-
o-Xylene	-	-	-	-	2 U	-	-
Xylene (total)	1 U	1 U	1 U	1 U	2 U	1 U	1 U
SVOC							
2-Chlorophenol	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
4-Chloro-3-methyl phenol	10 U	10 U	10 U	10 U	-	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	-	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	-	10 U	10 U
2,4-Dinitrophenol	20 U	20 U	21 U	20 U	-	20 U	20 U
4,6-Dinitro-o-cresol	10 U	10 U	10 U	10 U	-	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	-	10 U	10 U
3&4-Methylphenol	10 U	10 U	10 U	10 U	-	10 U	10 U
2-Nitrophenol	10 U	10 U	10 U	10 U	-	10 U	10 U
4-Nitrophenol	20 U	20 U	21 U	20 U	-	20 U	20 U
Pentachlorophenol	10 U	10 U	10 U	10 U	-	10 U	10 U
Phenol	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
2,4,5-Trichlorophenol	10 U	10 U	10 U	10 U	-	10 U	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	-	10 U	10 U
Acenaphthene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Acenaphthylene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Anthracene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Benzo(a)anthracene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Benzo(a)pyrene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Benzo(b)fluoranthene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Benzo(g,h,i)perylene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Benzo(k)fluoranthene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
4-Bromophenyl phenyl ether	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Butyl benzyl phthalate	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
2-Chloronaphthalene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
4-Chloroaniline	10 U	10 U	10 U	10 U	-	10 U	10 U
Carbazole	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Chrysene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
bis(2-Chloroethoxy)methane	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
bis(2-Chloroethyl)ether	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
bis(2-Chloroisopropyl)ether	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
4-Chlorophenyl phenyl ether	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
1,2-Dichlorobenzene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
1,3-Dichlorobenzene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
1,4-Dichlorobenzene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	-	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	-	10 U	10 U
3,3'-Dichlorobenzidine	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Dibenzo(a,h)anthracene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Dibenzofuran	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Di-n-butyl phthalate	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Di-n-octyl phthalate	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Diethyl phthalate	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Dimethyl phthalate	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
bis(2-Ethylhexyl)phthalate	2 U	2 U	2 U	2 U	-	2 U	2 U
Fluoranthene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Fluorene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Hexachlorobenzene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Hexachlorobutadiene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	-	10 U	10 U
Hexachloroethane	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Indeno(1,2,3-cd)pyrene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Isophorone	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
2-Methylnaphthalene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
2-Nitroaniline	10 U	10 U	10 U	10 U	-	10 U	10 U
3-Nitroaniline	10 U	10 U	10 U	10 U	-	10 U	10 U
4-Nitroaniline	10 U	10 U	10 U	10 U	-	10 U	10 U
Naphthalene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Nitrobenzene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
N-Nitroso-di-n-propylamine	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
N-Nitrosodiphenylamine	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Phenanthrene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
Pyrene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U
1,2,4-Trichlorobenzene	5.1 U	5.1 U	5.2 U	5.1 U	-	5.1 U	5.1 U

Table 4a
Groundwater Analytical Results - Shallow Wells
65 Grove St, Watertown MA

	MW-10		MW 11		MW-21		MW-24
	9/23/09	2/4/10	9/23/09	2/4/10	12/9/09	2/4/10	2/4/10
PCB							
Aroclor 1016	-	0.25 U	-	0.25 U	-	0.25 U	0.25 U
Aroclor 1221	-	0.25 U	-	0.25 U	-	0.25 U	0.25 U
Aroclor 1232	-	0.25 U	-	0.25 U	-	0.25 U	0.25 U
Aroclor 1242	-	0.25 U	-	0.25 U	-	0.25 U	0.25 U
Aroclor 1248	-	0.25 U	-	0.25 U	-	0.25 U	0.25 U
Aroclor 1254	-	0.25 U	-	0.25 U	-	0.25 U	0.25 U
Aroclor 1260	-	0.25 U	-	0.25 U	-	0.25 U	0.25 U
EPH							
C9-C18 Aliphatics	100 U	100 U	100 U	100 U	-	100 U	-
C19-C36 Aliphatics	100 U	100 U	100 U	100 U	-	100 U	-
C11-C22 Aromatics	100 U	100 U	100 U	100 U	-	100 U	-
Acenaphthene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Acenaphthylene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Anthracene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Benzo(a)anthracene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Benzo(a)pyrene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Benzo(b)fluoranthene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Benzo(g,h,i)perylene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Benzo(k)fluoranthene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Chrysene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Dibenz(a,h)anthracene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Fluoranthene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Fluorene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Indeno(1,2,3-cd)pyrene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
2-Methylnaphthalene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Naphthalene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Phenanthrene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
Pyrene	5.1 U	5.1 U	5.1 U	5.1 U	-	5.1 U	-
VPH							
C5- C8 Aliphatics (Unadj.)	89.3	50 U	50 U	50 U	-	50 U	50 U
C9- C12 Aliphatics (Unadj.)	101	50 U	50 U	50 U	-	50 U	50 U
C9- C10 Aromatics (Unadj.)	50 U	50 U	50 U	50 U	-	50 U	50 U
C5- C8 Aliphatics	89.3	50 U	50 U	50 U	-	50 U	50 U
C9- C12 Aliphatics	56.4	50 U	50 U	50 U	-	50 U	50 U
Benzene	2 U	2 U	2 U	2 U	-	2 U	2 U
Ethylbenzene	2	2 U	2 U	2 U	-	2 U	2 U
Naphthalene	3 U	3 U	3 U	3 U	-	3 U	3 U
Methyl Tert Butyl Ether	1 U	1 U	1 U	1 U	-	1 U	1 U
Naphthalene	2 U	2 U	2 U	2 U	-	2 U	2 U
Toluene	2 U	2 U	2 U	2 U	-	2 U	2 U
m,p-Xylene	2 U	2 U	2 U	2 U	-	2 U	2 U
o-Xylene	2 U	2 U	2 U	2 U	-	2 U	2 U
Metals							
Arsenic	10 U	10 U	10 U	10 U	-	10 U	10 U
Barium	200 U	200 U	200 U	200 U	-	200 U	200 U
Cadmium	4 U	4 U	4 U	4 U	-	4 U	4 U
Chromium	10 U	10 U	10 U	10 U	-	10 U	10 U
Lead	5 U	5 U	5 U	5 U	-	5 U	18.4
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	-	0.2 U	0.2 U
Selenium	10 U	10 U	10 U	10 U	-	10 U	10 U
Silver	5 U	5 U	5 U	5 U	-	5 U	5 U

Notes:
All concentrations in ug/L
[1] Sample filtered. Concentrations represent dissolved species.
ND - Not detected
- = Not Analyzed

Technical Report for

AMEC

GE Watertown MA

778190012

Accutest Job Number: M89179

Sampling Dates: 02/04/10 - 02/05/10

Report to:

AMEC

mike.j.robinson@amec.com

ATTN: Mike Robinson

Total number of pages in report: **103**

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ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (2502) RI (00071) ME (MA0136) FL (E87579) NY (11791) NJ (MA926) NC (653) IL (200018) NAVY USACE

Sample Summary

AMEC

Job No: M89179

GE Watertown MA
Project No: 778190012

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M89179-1	02/04/10	14:25	MTT	02/05/10	AQ	Ground Water	MW 12 0210
M89179-2	02/04/10	14:30	MTT	02/05/10	AQ	Ground Water	MW 13 0210
M89179-3	02/04/10	15:45	MTT	02/05/10	AQ	Ground Water	MW 11 0210
M89179-4	02/04/10	15:40	MTT	02/05/10	AQ	Ground Water	MW 21 0210
M89179-5	02/05/10	08:15	MTT	02/05/10	AQ	Ground Water	MW 20 0210
M89179-6	02/05/10	08:20	MTT	02/05/10	AQ	Ground Water	MW 18 0210
M89179-7	02/05/10	09:30	MTT	02/05/10	AQ	Ground Water	MW 4 0210
M89179-8	02/04/10	16:05	MTT	02/05/10	AQ	Ground Water	MW-2

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	AMEC	**Job No**	M89179
Site:	GE Watertown MA	**Report Date**	2/16/2010 12:52:23 PM

8 Sample(s) were collected on between 02/04/2010 and 02/05/2010 and were received at Accutest on 02/05/2010 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of M89179. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSL1256

- All samples were analyzed within the recommended method holding time.
- Sample(s) M89146-1MS, M89146-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP20612

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Initial calibration standard MSS450-ICC450 for bis(2-chloroisopropyl)ether, 2,4-Dinitrophenol, Benzo[b]fluoranthene, Indeno[1,2,3-cd]pyrene, Dibenz[a,h]anthracene, Benzo[g,h,i]perylene is employed quadratic regression.
- M89179-8: Confirmation run for surrogate recoveries.
- M89179-8 for Phenol-d5: Outside control limits due to possible matrix interference. Confirmed by reanalysis.
- RPD for OP20612-BSD for 4-Chloroaniline, 3-Nitroaniline: Outside control limits. Blank Spike meets program technical requirements.
- BSD for Phenol, 4-Chloroaniline is outside control limits. Blank Spike meets program technical requirements.

Volatiles by GC By Method MADEP VPH REV 1.1

Matrix AQ **Batch ID:** GBD1636

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89140-4MS, M89140-4MSD were used as the QC samples indicated.

Matrix AQ **Batch ID:** GBD1637

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix AQ **Batch ID:** GBD1638

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89225-2MS, M89225-2MSD were used as the QC samples indicated.

Volatiles by GC By Method SW846 8015

Matrix AQ **Batch ID:** GBA785

- All samples were analyzed within the recommended method holding time.
- Sample(s) M89179-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for Duplicate for Ethane, Methane are outside control limits for sample M89179-1DUP. Outside control limits due to sample values below RDL.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix AQ **Batch ID:** OP20604

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP20604-MB for 1-Chlorooctadecane: Confirmed by refractionation and reanalysis.
- OP20604-BS/BSD for 1-Chlorooctadecane: Confirmed by refractionation and reanalysis.
- M89179-6 for 1-Chlorooctadecane: Outside control limits due to possible matrix interference. Sample results confirmed by re-extraction/reanalysis.
- M89179-8 for 1-Chlorooctadecane: Outside control limits due to possible matrix interference. Sample results confirmed by re-extraction/reanalysis.

Extractables by GC By Method SW846 8082

Matrix AQ **Batch ID:** OP20614

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89146-1MS, M89146-1MSD were used as the QC samples indicated.
- OP20614-MB for Decachlorobiphenyl: Confirmed by reanalysis.BS/BSD satisfactory.

Metals By Method SW846 6010B

Matrix	AQ	Batch ID:	MP14787

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89197-5DUP, M89197-5MS, M89197-5SDL were used as the QC samples for metals.
- RPD(s) for Duplicate for Cadmium are outside control limits for sample MP14787-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Cadmium are outside control limits for sample MP14787-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Matrix	AQ	Batch ID:	MP14795

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89179-8DUP, M89179-8MS, M89179-8SDL were used as the QC samples for metals.
- RPD(s) for Duplicate for Selenium are outside control limits for sample MP14795-D1. RPD acceptable due to low duplicate and sample concentrations.
- Only selected metals requested.

Metals By Method SW846 7470A

Matrix	AQ	Batch ID:	MP14786

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89146-1DUP, M89146-1MS were used as the QC samples for metals.

Matrix	AQ	Batch ID:	MP14793

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89179-4DUP, M89179-4MS were used as the QC samples for metals.

Wet Chemistry By Method ASTM516-90,02

Matrix	AQ	Batch ID:	GN31079

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89179-4DUP, M89179-4MS were used as the QC samples for Sulfate.

Wet Chemistry By Method EPA 353.2

Matrix AQ **Batch ID:** GP11251

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89179-1MS, M89179-1DUP were used as the QC samples for Nitrogen, Nitrite.
- RPD(s) for Duplicate for Nitrogen, Nitrite are outside control limits for sample GP11251-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix AQ **Batch ID:** GP11267

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89130-1DUP, M89130-1MS were used as the QC samples for Nitrogen, Nitrate + Nitrite.

Matrix AQ **Batch ID:** R26446

- M89179-1 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix AQ **Batch ID:** R26447

- M89179-3 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix AQ **Batch ID:** R26448

- M89179-4 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix AQ **Batch ID:** R26449

- M89179-7 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Wet Chemistry By Method SM21 2320B

Matrix AQ **Batch ID:** GN31071

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89179-7DUP, M89179-7MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM21 4500 S F

Matrix AQ **Batch ID:** GN31065

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89179-1MS, M89179-3DUP were used as the QC samples for Sulfide.

Wet Chemistry By Method SM21 4500CL C

Matrix AQ **Batch ID:** GN31089

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89179-7DUP, M89179-7MS were used as the QC samples for Chloride.

Wet Chemistry By Method SM21 5310 B

Matrix	AQ	Batch ID:	GP11264

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89179-1DUP, M89179-1MS were used as the QC samples for Total Organic Carbon.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M89179).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW 21 0210		
Lab Sample ID:	M89179-4	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/05/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L38455.D	1	02/10/10	AMY	n/a	n/a	MSL1256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	4.8	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	77.8	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	262	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	18.4	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	117	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 21 0210		
Lab Sample ID:	M89179-4	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/05/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 21 0210		
Lab Sample ID:	M89179-4	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/05/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S13079.D	1	02/12/10	PN	02/11/10	OP20612	MSS463
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	10	ug/l	
	3&4-Methylphenol	ND	10	ug/l	
88-75-5	2-Nitrophenol	ND	10	ug/l	
100-02-7	4-Nitrophenol	ND	20	ug/l	
87-86-5	Pentachlorophenol	ND	10	ug/l	
108-95-2	Phenol	ND	5.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	ug/l	
83-32-9	Acenaphthene	ND	5.1	ug/l	
208-96-8	Acenaphthylene	ND	5.1	ug/l	
120-12-7	Anthracene	ND	5.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	ug/l	
106-47-8	4-Chloroaniline	ND	10	ug/l	
86-74-8	Carbazole	ND	5.1	ug/l	
218-01-9	Chrysene	ND	5.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 21 0210		
Lab Sample ID:	M89179-4	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/05/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	ug/l	
132-64-9	Dibenzofuran	ND	5.1	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.1	ug/l	
86-73-7	Fluorene	ND	5.1	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	ug/l	
67-72-1	Hexachloroethane	ND	5.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	ug/l	
78-59-1	Isophorone	ND	5.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	ug/l	
88-74-4	2-Nitroaniline	ND	10	ug/l	
99-09-2	3-Nitroaniline	ND	10	ug/l	
100-01-6	4-Nitroaniline	ND	10	ug/l	
91-20-3	Naphthalene	ND	5.1	ug/l	
98-95-3	Nitrobenzene	ND	5.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	ug/l	
85-01-8	Phenanthrene	ND	5.1	ug/l	
129-00-0	Pyrene	ND	5.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		15-110%
4165-62-2	Phenol-d5	17%		15-110%
118-79-6	2,4,6-Tribromophenol	65%		15-110%
4165-60-0	Nitrobenzene-d5	60%		30-130%
321-60-8	2-Fluorobiphenyl	59%		30-130%

ND = Not detected
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 21 0210		
Lab Sample ID:	M89179-4	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/05/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	67%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 21 0210		
Lab Sample ID:	M89179-4	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/05/10
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GBA12764.D	1	02/09/10	AF	n/a	n/a	GBA785
Run #2	GBA12766.D	10	02/09/10	AF	n/a	n/a	GBA785

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.30	ug/l	
74-84-0	Ethane	ND	0.10	ug/l	
74-85-1	Ethene	ND	0.10	ug/l	
124-38-9	Carbon Dioxide	8970 [a]	1000	ug/l	

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 21 0210		
Lab Sample ID:	M89179-4	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/05/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ55574.D	1	02/12/10	SL	02/11/10	OP20614	GYZ2372
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		30-150%
877-09-8	Tetrachloro-m-xylene	79%		30-150%
2051-24-3	Decachlorobiphenyl	85%		30-150%
2051-24-3	Decachlorobiphenyl	71%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 21 0210		
Lab Sample ID:	M89179-4	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/05/10
		Percent Solids:	n/a
Project:	GE Watertown MA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 10	10	ug/l	1	02/09/10	02/09/10	PY	SW846 6010B [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	02/09/10	02/09/10	PY	SW846 6010B [1]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	02/09/10	02/09/10	PY	SW846 6010B [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	02/09/10	02/09/10	PY	SW846 6010B [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	02/09/10	02/09/10	PY	SW846 6010B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	02/10/10	02/11/10	MA	SW846 7470A [2]	SW846 7470A [4]
Selenium	< 10	10	ug/l	1	02/09/10	02/09/10	PY	SW846 6010B [1]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	02/09/10	02/09/10	PY	SW846 6010B [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA11449
(2) Instrument QC Batch: MA11451
(3) Prep QC Batch: MP14787
(4) Prep QC Batch: MP14793

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 21 0210		
Lab Sample ID:	M89179-4	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/05/10
		Percent Solids:	n/a
Project:	GE Watertown MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	< 5.0	5.0	mg/l	1	02/09/10	MS	SM21 2320B
Chloride	294	5.0	mg/l	5	02/11/10	MS	SM21 4500CL C
Nitrogen, Nitrate [a]	0.89	0.11	mg/l	1	02/11/10 12:15	CF	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.90	0.10	mg/l	1	02/11/10 12:15	CF	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	02/05/10 17:26	MA	EPA 353.2
Sulfate	27.6	5.0	mg/l	1	02/10/10	MS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	02/08/10	BF	SM21 4500 S F
Total Organic Carbon	2.0	1.0	mg/l	1	02/11/10 11:52	MS	SM21 5310 B

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- EPH Form
- VPH Form

Parameter Certifications

Job Number: M89179
Account: AMECMAW AMEC
Project: GE Watertown MA

The following parameters included in this report are certified by the state of MA.

Parameter	CAS#	Method	Mat	Certification Status
Alkalinity, Total as CaCO3		**SM21 2320B**	AQ	Accutest is certified for this parameter.
Chloride	16887-00-6	**SM21 4500CL C**	AQ	Accutest is certified for this parameter.
Nitrogen, Nitrate	14797-55-8	**EPA 353.2**	AQ	Accutest is certified for this parameter.
Nitrogen, Nitrate + Nitrite		**EPA 353.2**	AQ	Accutest is certified for this parameter.
Sulfate	14808-79-8	**ASTM516-90,02**	AQ	Accutest is certified for this parameter.
Total Organic Carbon		**SM21 5310 B**	AQ	Accutest is certified for this parameter.

CHAIN OF CUSTODY

ACCUTEST Laboratories

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M89179
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: AMEC
ADDRESS: 2 Robbins Rd
CITY: Westford STATE: MA ZIP: 01886
SEND REPORT TO: mike.jordonsim@amec.com
PHONE #:

FACILITY INFORMATION

PROJECT NAME: GE Watertown
LOCATION: TB190012
PROJECT NO.:
FAX #:

ANALYTICAL INFORMATION

VOC 8260 | SVOC 8270 | RCRA 8 Metals | PCB | EPH | VPH | Sulfides | Methane, Ethane, Ethene | TOC | Alk, Cl, NO3, SO4

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE		LAB USE ONLY
-1	MW12 0210	2/4/10	1425	MTT	GW	18	X	X	X		X	X X X X X X X X X X	
-2	MW13 0210		1430	TEH		11						√ X X X X X	
-3	MW11 0210		1545	TEH		18	X	X	X		X	X X X X X X X X X X	
-4	MW21 0210	↓	1540	MTT		14						X X X X X X X X	
-5	MW20 0210	2/5/10	515	MTT		7	X		X			X X X X	
-6	MW18 0210	2/5/10	0820	AM		11	X		X			X X X X X X	
-7	MW4 0210	2/5/10	0930	MTT	↓	18	X	X	X		X	X X X X X X X X X X	

DATA TURNAROUND INFORMATION

☐ 14 DAYS STANDARD — APPROVED BY:
☐ 7 DAYS *RUSH*
☐ 48 HOUR EMERGENCY
☐ OTHER Mike will call

14 DAY TURNAROUND HARDCOPY; EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☐ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY)

COMMENTS/REMARKS

GW2 — 1GBB, 1SB, 5A, 4NS
MCP

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
	2/5/10 1130	1.	2.	2/5/10 1525	2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE 1-2.9, 3-1.1 °C

M89179: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M89179 **Client:** AMEC **Immediate Client Services Action Required:** Yes

Date / Time Received: 2/5/2010 3:25:00 PM **Delivery Method:** Client

Project: GE WATERTOWN **No. Coolers:** 1 **Airbill #'s:** N/A

Cooler Security

	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature

	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation

	Y	N	N/A
1. Trip Blank present / cooler:	☐	☐	
2. Trip Blank listed on COC:	☐	☐	
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition

	Y	or	N
1. Sample rec'd within HT:	☑		☐
2. All containers accounted for:	☐		☑
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume rec'd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

-8 "MW-2" - 2/4/10 16:05 received extra set not on coc, 2 hcl liters, 4 unp liters, 1 250 hno3, 4 hcl 40ml.

Sent Mike Robinson an email on 2/8/10

Sample Receipt Summary - Problem Resolution

Accutest Job Number: M89179

CSR: Frank D'Agostino **Response Date** 2/9/2010

Response: Hi Frank -

This sample was omitted from the COC. ID, sample date and time should be as noted below. We would need the following analyses:
EPH (2 1L A w/HCl)
SVOC by 8270 (2 1L A unp)
PCB (2 1L A unp)
RCRA 8 Metals (250 mL P HNO3)
VPH (2 40 ml V HCl)
VOC by 8260 (2 40 ml V HCl)

Thanks
Mike

Accutest Laboratories
V:508.481.6200
495 Technology Center West, Bldg One
F: 508.481.7753
Marlborough, MA
www/accutest.com

Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Accutest Laboratories of New England	Project #:	M89179
Project Location:	GE Watertown MA	MADEP RTN [1]	None

This form provides certifications for the following data set:
M89179-1,M89179-2,M89179-3,M89179-4,M89179-5,M89179-6,M89179-7,M89179-8

Test method: Refer to case narrative.

Sample Matrices: Groundwater X Soil/Sediment ( ) Drinking Water ( ) other ( ) ( )

MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B (X)	7470A/1A (X)
	8270C (X)	8081A ( )	VPH (X)	6020 ( )	9014M [2] ( )
As specified in MADEP Compendium of Analytical Methods. (Check all that apply)	8082 (X)	8021B ( )	EPH (X)	7000 S [3] ( )	7196A ( )

1 List Release Tracking Number (RTN), if known
2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S - SW-846 Methods 7000 Series List Individual method and analyte

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status

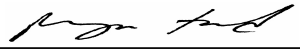
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☑	Yes	☐ No [1]
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☑	Yes	☐ No [1]
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑	Yes	☐ No [1]
D	**VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☑	Yes	☐ No [1]

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	☐ **Refer to Narrative**	Yes	☑ No [1]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐ **Refer to Narrative**	Yes	☑ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

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

Signature:  **Position:** **Laboratory Director**

Printed Name: **Reza Tand** **Date:** **02/16/2010**

New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

02/25/10

Technical Report for

AMEC

GE Watertown MA

778190012

Accutest Job Number: M89297

Sampling Date: 02/12/10

Report to:

AMEC

mike.j.robinson@amec.com

ATTN: Mike Robinson

Total number of pages in report: **53**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (2502) RI (00071) ME (MA0136) FL (E87579) NY (11791) NJ (MA926) NC (653) IL (200018) NAVY USACE

Sample Summary

AMEC

Job No: M89297

GE Watertown MA
Project No: 778190012

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M89297-1	02/12/10	09:00	HAM	02/12/10	AQ	Ground Water	MW 12D 0210
M89297-2	02/12/10	10:30	HAM	02/12/10	AQ	Ground Water	MW 28 0210
M89297-3	02/12/10	11:40	HAM	02/12/10	AQ	Ground Water	MW 27 0210
M89297-4	02/12/10	13:00	HAM	02/12/10	AQ	Ground Water	MW 21 0210 B

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	AMEC	**Job No**	M89297
Site:	GE Watertown MA	**Report Date**	2/22/2010 5:50:39 PM

4 Sample(s) were collected on 02/12/2010 and were received at Accutest on 02/12/2010 properly preserved, at 2.7 Deg. C and intact. These Samples received an Accutest job number of M89297. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSL1261

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89199-2MS, M89199-2MSD were used as the QC samples indicated.
- BS, BSD, MS Recovery(s) for Isopropylbenzene are outside control limits. Blank Spike meets program technical requirements.
- MS/MSD Recovery(s) for Dichlorodifluoromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- M89199-2MS for 2,2-Dichloropropane: Outside control limits. Associated samples are non-detect for this compound.
- MSL1261-BS/BSD for 2,2-Dichloropropane: Outside control limits. Associated samples are non-detect for this compound.

Volatiles by GC By Method MADEP VPH REV 1.1

Matrix AQ **Batch ID:** GAB3110

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix AQ **Batch ID:** OP20639

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M89297).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW 21 0210 B		
Lab Sample ID:	M89297-4	**Date Sampled:**	02/12/10
Matrix:	AQ - Ground Water	**Date Received:**	02/12/10
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB55870.D	1	02/15/10	AP	n/a	n/a	GAB3110
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

MA-VPH List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	3.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	
	C5- C8 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	ug/l	
	C5- C8 Aliphatics	ND	50	ug/l	
	C9- C12 Aliphatics	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
615-59-8	2,5-Dibromotoluene	89%		70-130%
615-59-8	2,5-Dibromotoluene	81%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 21 0210 B		
Lab Sample ID:	M89297-4	**Date Sampled:**	02/12/10
Matrix:	AQ - Ground Water	**Date Received:**	02/12/10
Method:	MADEP EPH REV 1.1 SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG15108.D	1	02/18/10	WZ	02/13/10	OP20639	GBG493
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.1	ug/l	
208-96-8	Acenaphthylene	ND	5.1	ug/l	
120-12-7	Anthracene	ND	5.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	ug/l	
218-01-9	Chrysene	ND	5.1	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.1	ug/l	
206-44-0	Fluoranthene	ND	5.1	ug/l	
86-73-7	Fluorene	ND	5.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	ug/l	
91-20-3	Naphthalene	ND	5.1	ug/l	
85-01-8	Phenanthrene	ND	5.1	ug/l	
129-00-0	Pyrene	ND	5.1	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	ug/l	
	C9-C18 Aliphatics	ND	100	ug/l	
	C19-C36 Aliphatics	ND	100	ug/l	
	C11-C22 Aromatics	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		40-140%
321-60-8	2-Fluorobiphenyl	71%		40-140%
3386-33-2	1-Chlorooctadecane	52%		40-140%
580-13-2	2-Bromonaphthalene	72%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- EPH Form
- VPH Form
- Sample Tracking Chronicle

CHAIN OF CUSTODY

ACCUTEST Laboratories

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M89297
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: AMEC
ADDRESS: 2 Robbins Rd
CITY: Westford STATE: MA ZIP: 01886
SEND REPORT TO: Mike.J.Robinson@amec.com
PHONE #:

FACILITY INFORMATION

PROJECT NAME: GE
LOCATION: Watertown 77819.0012
PROJECT NO.:
FAX #:

ANALYTICAL INFORMATION

VOCs 8260D
MA EPH
MA VPH

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	PRESERVATION NaOH	PRESERVATION HNO3	PRESERVATION H2SO4	PRESERVATION NONE	VOCs 8260D	MA EPH	MA VPH	LAB USE ONLY
-1	MW 12D 0210	2/17/10	0900	HAM	GW	10	X					X	X	X	
-2	MW 28 0210		1030			1	X					X	X	X	
-3	MW 27 0210		1140			5	X					X	X	X	
-4	MW 31 0210 B	2/17/10	1300	HAM	GW	4	X						X	X	

DATA TURNAROUND INFORMATION

- ☐ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☒ OTHER 3 DAY

APPROVED BY: **RUSH!**

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

GW2 + MCP 16BB, SE3

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME: 17:00 2/17/10	RECEIVED BY:	RELINQUISHED BY: 2.	DATE TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE	ON ICE ✓ TEMPERATURE 2.7 C

4.1 4

M89297: Chain of Custody
Page 1 of 1

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Accutest Laboratories of New England	Project #:	M89297
Project Location:	GE Watertown MA	MADEP RTN [1]	None

This form provides certifications for the following data set:
M89297-1,M89297-2,M89297-3,M89297-4

Sample Matrices: Groundwater X Soil/Sediment ( ) Drinking Water ( ) other ( ) ( )

MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
	8270C ( )	8081A ( )	VPH (X)	6020 ( )	9014M [2] ( )
As specified in MADEP Compendium of Analytical Methods. (Check all that apply)	8082 ( )	8021B ( )	EPH (X)	7000 S [3] ( )	7196A ( )

1 List Release Tracking Number (RTN), if known
2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S - SW-846 Methods 7000 Series List Individual method and analyte

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status

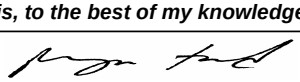
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☑	Yes	☐ No [1]
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☑	Yes	☐ No [1]
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑	Yes	☐ No [1]
D	**VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☑	Yes	☐ No [1]

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	☐ **Refer to Narrative**	Yes	☑ No [1]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☑ **Refer to Narrative**	Yes	☐ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

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

Signature:  **Position:** **Laboratory Director**

Printed Name: **Reza Tand** **Date:** **02/22/2010**

MADEP EPH FORM

Matrix	**Aqueous** ☑	**Soil** ☐	**Sediment** ☐	**Other** ☐			
Containers	**Satisfactory** ☑	**Broken** ☐	**Leaking** ☐				
Aqueous Preservative	**N/A** ☐	**pH <= 2** ☑	**pH > 2** ☐				
Temperature	**Received on Ice** ☐	**Received at 4 Deg. C** ☐	**Other** ☑	Rec'd at 2.7 Deg. C			
Extraction Method	**SW846 3510C**						

Method for Ranges: MADEP EPH REV 1.1
Method for Targets: MADEP EPH REV 1.1
EPH Surrogate Stds. Aliphatic: 1-Chlorooctadecane; Aromatic: o-Terphenyl
EPH Fractionation Surrogate Standards. 2-Fluorobiphenyl; 2-Bromonaphthalene

Client ID: MW 21 0210 B **Lab ID:** M89297-4
Date Collected: 2/12/2010 **Date Received:** 2/12/2010

Date Extracted:	First Date Run:	Last Date Run:
2/13/2010	2/18/2010	N/A
% Solids:	**Low Dilution:**	**High Dilution:**
N/A	1	N/A

Unadjusted Ranges	CAS #	Units	Result	RDL	Q
C11-C22 Aromatics (Unadj.)		ug/l	ND [A]	100	
Diesel PAH Analytes					
2-Methylnaphthalene	91-57-6	ug/l	ND	5.1	
Phenanthrene	85-01-8	ug/l	ND	5.1	
Acenaphthene	83-32-9	ug/l	ND	5.1	
Naphthalene	91-20-3	ug/l	ND	5.1	
Other Target PAH Analytes					
Acenaphthylene	208-96-8	ug/l	ND	5.1	
Anthracene	120-12-7	ug/l	ND	5.1	
Benzo(a)anthracene	56-55-3	ug/l	ND	5.1	
Benzo(a)pyrene	50-32-8	ug/l	ND	5.1	
Benzo(b)fluoranthene	205-99-2	ug/l	ND	5.1	
Benzo(g,h,i)perylene	191-24-2	ug/l	ND	5.1	
Benzo(k)fluoranthene	207-08-9	ug/l	ND	5.1	
Chrysene	218-01-9	ug/l	ND	5.1	
Dibenz(a,h)anthracene	53-70-3	ug/l	ND	5.1	
Fluoranthene	206-44-0	ug/l	ND	5.1	
Fluorene	86-73-7	ug/l	ND	5.1	
Indeno(1,2,3-cd)pyrene	193-39-5	ug/l	ND	5.1	
Pyrene	129-00-0	ug/l	ND	5.1	
Adjusted Ranges					
C9-C18 Aliphatics		ug/l	ND [A]	100	
C19-C36 Aliphatics		ug/l	ND [A]	100	
C11-C22 Aromatics		ug/l	ND [C]	100	

Surrogate Recoveries		Acceptance Range
1-Chlorooctadecane	52	40-140 %
o-Terphenyl	74	40-140 %
2-Fluorobiphenyl	71	40-140 %
2-Bromonaphthalene	72	40-140 %

Footnotes

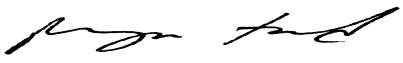
A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

C Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the EPH Method followed? ☑ Yes ☐ No- Details Attatched
Were all performance/acceptance standards for required QA/QC procedures achieved? ☑ Yes ☐ No- Details Attatched
Were any significant modifications made to the EPH method, as specified in Sect. 11.3? ☑ No ☐ Yes- Details Attatched

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

Signature  **Postition** Laboratory Director

Printed Name Reza Tand **Date** 2/22/2010

MADEP VPH FORM

Matrix	**Aqueous**	☑	**Soil**	☐	**Sediment**	☐	**Other**	☐
Containers	**Satisfactory**	☑	**Broken**	☐	**Leaking**	☐		
Aqueous Preservatives	**N/A**	☐	**pH <= 2**	☑	**pH > 2**	☐		
Temperature	**Received on Ice**	☐	**Received at 4 Deg. C**	☐	**Other**	☑	Rec'd at 2.7 Deg. C	
Methanol	**N/A**							

Method for Ranges: MADEP VPH REV 1.1
Method for Target Analytes: MADEP VPH REV 1.1
VPH Surrogate Standards
PID: 2,5-Dibromotoluene
FID: 2,5-Dibromotoluene

Client ID: MW 21 0210 B **Lab ID:** M89297-4
Date Collected: 2/12/2010 **Date Received:** 2/12/2010

Date Extracted:	First Date Run:	Last Date Run:
N/A	2/15/2010	N/A
% Solids:	**Low Dilution:**	**High Dilution:**
N/A	1	N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	ND [A]	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND [A]	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	ND [A]	50	
Target Analytes						
Ethylbenzene	100-41-4	C9-C12	ug/l	ND	2	
Toluene	108-88-3	C5-C8	ug/l	ND	2	
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	ND	1	
Benzene	71-43-2	C5-C8	ug/l	ND	2	
Naphthalene	91-20-3	N/A	ug/l	ND	3	
o-Xylene	95-47-6	C9-C12	ug/l	ND	2	
m,p-Xylene		C9-C12	ug/l	ND	2	
Adjusted Ranges						
C5- C8 Aliphatics		N/A	ug/l	ND [B]	50	
C9- C12 Aliphatics		N/A	ug/l	ND [D]	50	

Surrogate Recoveries		Result	Acceptance Range
FID:2,5-Dibromotoluene	%	89	70-130 %
PID:2,5-Dibromotoluene	%	81	70-130 %

Footnotes

A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

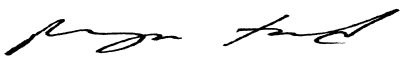
B Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

D Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C9-C12 aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C9-C10 Aromatic Hydrocarbons.

Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the VPH Method followed?	☑ **Yes** ☐	**No- Details Attatched**
Were all performance/acceptance standards for required QA/QC procedures achieved?	☑ **Yes** ☐	**No- Details Attatched**
Were any significant modifications made to the VPH method, as specified in Sect. 11.3?	☑ **No** ☐	**Yes- Details Attatched**

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

Signature  **Postition** **Laboratory Director**

Printed Name **Reza Tand** **Date** **2/22/2010**

New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

02/16/10

Technical Report for

AMEC

GE Watertown MA

778190012

Accutest Job Number: M89148

Sampling Date: 02/04/10

Report to:

mike.j.robinson@amec.com

ATTN: Distribution6

Total number of pages in report: **152**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (2502) RI (00071) ME (MA0136) FL (E87579) NY (11791) NJ (MA926) NC (653) IL (200018) NAVY USACE

Sample Summary

AMEC

Job No: M89148

GE Watertown MA
Project No: 778190012

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M89148-1	02/04/10	10:00	TEH	02/04/10	AQ	Ground Water	MW5 0210
M89148-2	02/04/10	10:15	TEH	02/04/10	AQ	Ground Water	MW6 0210
M89148-3	02/04/10	11:30	TEH	02/04/10	AQ	Ground Water	MW10 0210
M89148-4	02/04/10	12:05	TEH	02/04/10	AQ	Ground Water	MW10D 0210
M89148-5	02/04/10	00:00	TEH	02/04/10	AQ	Ground Water	DUP 2
M89148-6	02/04/10	12:40	TEH	02/04/10	AQ	Ground Water	MW25 0210
M89148-7	02/04/10	13:10	TEH	02/04/10	AQ	Ground Water	MW15 0210
M89148-8	02/04/10	13:15	TEH	02/04/10	AQ	Ground Water	MW14 0210

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	AMEC	**Job No**	M89148
Site:	GE Watertown MA	**Report Date**	2/16/2010 12:01:10 PM

8 Sample(s) were collected on 02/04/2010 and were received at Accutest on 02/04/2010 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of M89148. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSN1497

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Continuing calibration check standard for bromomethane exceed 30% Difference. This check standard met MCP criteria.

Matrix AQ **Batch ID:** MSN1501

- All samples were analyzed within the recommended method holding time.
- Sample(s) M89134-3MS, M89134-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP20579

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M89146-1MS, M89146-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- BS, MS, MSD Recovery(s) for 3-Nitroaniline, 4-Chloroaniline, Phenol are outside control limits. Blank Spike meets program technical requirements.
- BSD Recovery(s) for 4-Chloroaniline, Phenol are outside control limits. Blank Spike meets program technical requirements.
- Initial calibration standard MSS450-ICC450 for bis(2-chloroisopropyl)ether, 2,4-Dinitrophenol, Benzo[b]fluoranthene, Indeno[1,2,3-cd]pyrene, Dibenz[a,h]anthracene, Benzo[g,h,i]perylene is employed quadratic regression.
- RPD for OP20579-BSD for 3,3'-Dichlorobenzidine, 4-Chloroaniline, 3-Nitroaniline: Outside control limits. Blank Spike meets program technical requirements.
- RPD for OP20579-MSD for 4-Chloroaniline: Outside control limits. Blank Spike meets program technical requirements.

Volatiles by GC By Method MADEP VPH REV 1.1

Matrix AQ **Batch ID:** GAB3104

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Volatiles by GC By Method SW846 8015

Matrix AQ **Batch ID:** GBA784

- All samples were analyzed within the recommended method holding time.
- Sample(s) M89130-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- M89130-1DUP for Methane: Outside control limits due to sample values below RDL.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix AQ **Batch ID:** OP20604

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- M89148-2 for 2-Fluorobiphenyl: Outside control limits due to possible matrix interference. Confirmed by refractionation.
- OP20604-BS/BSD for 1-Chlorooctadecane: Confirmed by refractionation and reanalysis.
- OP20604-MB for 1-Chlorooctadecane: Confirmed by refractionation and reanalysis.
- M89148-2 for 2-Bromonaphthalene: Outside control limits due to possible matrix interference. Confirmed by refractionation.

Matrix AQ **Batch ID:** OP20639

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8082

Matrix AQ **Batch ID:** OP20588

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M89226-4MS, M89226-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP14783

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89146-1DUP, M89146-1MS, M89146-1SDL were used as the QC samples for metals.
- Only selected metals requested.

Metals By Method SW846 7470A

Matrix AQ **Batch ID:** MP14786

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89146-1DUP, M89146-1MS were used as the QC samples for metals.

Wet Chemistry By Method ASTM516-90,02

Matrix	AQ	Batch ID:	GN31035

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89130-1DUP, M89130-1MS were used as the QC samples for Sulfate.

Matrix	AQ	Batch ID:	GN31079

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89179-4DUP, M89179-4MS were used as the QC samples for Sulfate.

Wet Chemistry By Method EPA 353.2

Matrix	AQ	Batch ID:	GP11241

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89130-1DUP, M89130-1MS were used as the QC samples for Nitrogen, Nitrite.

Matrix	AQ	Batch ID:	GP11267

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89130-1DUP, M89130-1MS were used as the QC samples for Nitrogen, Nitrate + Nitrite.

Matrix	AQ	Batch ID:	R26443

- M89148-3 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix	AQ	Batch ID:	R26444

- M89148-5 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix	AQ	Batch ID:	R26445

- M89148-6 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Wet Chemistry By Method SM21 2320B

Matrix	AQ	Batch ID:	GN31071

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89179-7DUP, M89179-7MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM21 4500 S F

Matrix	AQ	Batch ID:	GN31062

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89148-3MS, M89148-5DUP were used as the QC samples for Sulfide.

Wet Chemistry By Method SM21 4500CL C

Matrix	AQ	Batch ID:	GN31045

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89130-1DUP, M89130-1MS were used as the QC samples for Chloride.

Wet Chemistry By Method SM21 5310 B

Matrix	AQ	Batch ID:	GP11254

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89130-1DUP, M89130-1MS were used as the QC samples for Total Organic Carbon.
- RPD(s) for Duplicate for Total Organic Carbon are outside control limits for sample GP11254-D1. High recovery/RPD due to possible nonhomogeneity between sample bottles.
- GP11254-S1 for Total Organic Carbon: Spike recovery indicates possible nonhomogeneity between sample bottles.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M89148).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW10 0210		
Lab Sample ID:	M89148-3	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N39843.D	1	02/05/10	WC	n/a	n/a	MSN1497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	5.1	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	90.0	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	16.5	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10 0210		
Lab Sample ID:	M89148-3	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		70-130%
2037-26-5	Toluene-D8	103%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10 0210		
Lab Sample ID:	M89148-3	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S13068.D	1	02/12/10	PN	02/08/10	OP20579	MSS463
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	10	ug/l	
	3&4-Methylphenol	ND	10	ug/l	
88-75-5	2-Nitrophenol	ND	10	ug/l	
100-02-7	4-Nitrophenol	ND	20	ug/l	
87-86-5	Pentachlorophenol	ND	10	ug/l	
108-95-2	Phenol	ND	5.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	ug/l	
83-32-9	Acenaphthene	ND	5.1	ug/l	
208-96-8	Acenaphthylene	ND	5.1	ug/l	
120-12-7	Anthracene	ND	5.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	ug/l	
106-47-8	4-Chloroaniline	ND	10	ug/l	
86-74-8	Carbazole	ND	5.1	ug/l	
218-01-9	Chrysene	ND	5.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10 0210		
Lab Sample ID:	M89148-3	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	ug/l	
132-64-9	Dibenzofuran	ND	5.1	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.1	ug/l	
86-73-7	Fluorene	ND	5.1	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	ug/l	
67-72-1	Hexachloroethane	ND	5.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	ug/l	
78-59-1	Isophorone	ND	5.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	ug/l	
88-74-4	2-Nitroaniline	ND	10	ug/l	
99-09-2	3-Nitroaniline	ND	10	ug/l	
100-01-6	4-Nitroaniline	ND	10	ug/l	
91-20-3	Naphthalene	ND	5.1	ug/l	
98-95-3	Nitrobenzene	ND	5.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	ug/l	
85-01-8	Phenanthrene	ND	5.1	ug/l	
129-00-0	Pyrene	ND	5.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		15-110%
4165-62-2	Phenol-d5	24%		15-110%
118-79-6	2,4,6-Tribromophenol	95%		15-110%
4165-60-0	Nitrobenzene-d5	74%		30-130%
321-60-8	2-Fluorobiphenyl	77%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10 0210		
Lab Sample ID:	M89148-3	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	87%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10 0210		
Lab Sample ID:	M89148-3	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB55751.D	1	02/08/10	AP	n/a	n/a	GAB3104
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

MA-VPH List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	3.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	
	C5- C8 Aliphatics (Unadj.)	57.7	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	ug/l	
	C5- C8 Aliphatics	57.7	50	ug/l	
	C9- C12 Aliphatics	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
615-59-8	2,5-Dibromotoluene	98%		70-130%
615-59-8	2,5-Dibromotoluene	87%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10 0210		
Lab Sample ID:	M89148-3	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GBA12750.D	1	02/05/10	AF	n/a	n/a	GBA784
Run #2	GBA12751.D	10	02/05/10	AF	n/a	n/a	GBA784

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.30	ug/l	
74-84-0	Ethane	ND	0.10	ug/l	
74-85-1	Ethene	ND	0.10	ug/l	
124-38-9	Carbon Dioxide	12000 [a]	1000	ug/l	

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10 0210		
Lab Sample ID:	M89148-3	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	MADEP EPH REV 1.1 SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG15023.D	1	02/16/10	WZ	02/13/10	OP20639	GBG490
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.1	ug/l	
208-96-8	Acenaphthylene	ND	5.1	ug/l	
120-12-7	Anthracene	ND	5.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	ug/l	
218-01-9	Chrysene	ND	5.1	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.1	ug/l	
206-44-0	Fluoranthene	ND	5.1	ug/l	
86-73-7	Fluorene	ND	5.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	ug/l	
91-20-3	Naphthalene	ND	5.1	ug/l	
85-01-8	Phenanthrene	ND	5.1	ug/l	
129-00-0	Pyrene	ND	5.1	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	ug/l	
	C9-C18 Aliphatics	ND	100	ug/l	
	C19-C36 Aliphatics	ND	100	ug/l	
	C11-C22 Aromatics	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		40-140%
321-60-8	2-Fluorobiphenyl	60%		40-140%
3386-33-2	1-Chlorooctadecane	60%		40-140%
580-13-2	2-Bromonaphthalene	60%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10 0210		
Lab Sample ID:	M89148-3	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB28590.D	1	02/12/10	SL	02/08/10	OP20588	GBB1182
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	120%		30-150%
877-09-8	Tetrachloro-m-xylene	115%		30-150%
2051-24-3	Decachlorobiphenyl	114%		30-150%
2051-24-3	Decachlorobiphenyl	105%		30-150%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW10 0210		
Lab Sample ID:	M89148-3	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
		Percent Solids:	n/a
Project:	GE Watertown MA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 10	10	ug/l	1	02/08/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	02/08/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	02/08/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	02/08/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	02/08/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	02/09/10	02/09/10	MA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 10	10	ug/l	1	02/08/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	02/08/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11446
(2) Instrument QC Batch: MA11448
(3) Prep QC Batch: MP14783
(4) Prep QC Batch: MP14786

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW10 0210		
Lab Sample ID:	M89148-3	**Date Sampled:**	02/04/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
		Percent Solids:	n/a
Project:	GE Watertown MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	85.6	5.0	mg/l	1	02/09/10	MS	SM21 2320B
Chloride	1200	20	mg/l	20	02/05/10	CF	SM21 4500CL C
Nitrogen, Nitrate [a]	0.63	0.11	mg/l	1	02/11/10 12:06	CF	EPA 353.2
Nitrogen, Nitrate + Nitrite	0.63	0.10	mg/l	1	02/11/10 12:06	CF	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	02/04/10 18:11	MS	EPA 353.2
Sulfate	16.5	5.0	mg/l	1	02/05/10	MS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	02/08/10	BF	SM21 4500 S F
Total Organic Carbon	1.0	1.0	mg/l	1	02/08/10 12:00	MS	SM21 5310 B

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- EPH Form
- VPH Form
- Sample Tracking Chronicle

Parameter Certifications

Job Number: M89148
Account: AMECMAW AMEC
Project: GE Watertown MA

The following parameters included in this report are certified by the state of MA.

Parameter	CAS#	Method	Mat	Certification Status
Alkalinity, Total as CaCO3		**SM21 2320B**	AQ	Accutest is certified for this parameter.
Chloride	16887-00-6	**SM21 4500CL C**	AQ	Accutest is certified for this parameter.
Nitrogen, Nitrate	14797-55-8	**EPA 353.2**	AQ	Accutest is certified for this parameter.
Nitrogen, Nitrate + Nitrite		**EPA 353.2**	AQ	Accutest is certified for this parameter.
Sulfate	14808-79-8	**ASTM516-90,02**	AQ	Accutest is certified for this parameter.
Total Organic Carbon		**SM21 5310 B**	AQ	Accutest is certified for this parameter.

CHAIN OF CUSTODY

ACCUTEST Laboratories

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M89148
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: AMEC
ADDRESS: 2 Robbins Rd
CITY: Westford STATE: MA ZIP: 01886
SEND REPORT TO: mike.j.robinson@amec.com
PHONE #: 978 692 9090

FACILITY INFORMATION

PROJECT NAME: GE Watertown
LOCATION: 77819.0012
PROJECT NO.:
FAX #:

ANALYTICAL INFORMATION

VOC 8260 | SVOC 8270 | RCRA 8 Metals | PCB | EPH | VPH | Methane, ethane, ethene, CO2 | TOC | Sulfide | Alk, Cl, NO3, SO4

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOC	SVOC	RCRA 8 Metals	PCB	EPH	VPH	Methane, ethane, ethene, CO2	TOC	Sulfide	Alk, Cl, NO3, SO4	LAB USE ONLY
-1	MW 5 0210	2/4/10	1000	TEH	GW	11	X		X			X	X	X	X	X	X					
-2	MW16 0210	2/4/10	1015	MTT	GW	11	X		X			X	X	X	X	X	X					
-3	MW 10 0210		1130	TEH		18	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
-4	MW 100 0210		1205	MTT		7	X		X			X	X	X	X							
-5	DUP 2			TEH		18	X	X	X		X	X	X	X	X	X	X	X	X	X		
-6	MW 25 0210		1240	MM		5	3 X				X							X	X	X		
-7	MW 15 0210		1310	TEH		11	X		X			X	X	X	X	X	X					
-8	MW 14 0210		1315	MTT		11	X		X			X	X	X	X	X	X					
																						19CG 15A, 5A, 4LG

DATA TURNAROUND INFORMATION

☐ 14 DAYS STANDARD
☐ 7 DAYS *RUSH*
☐ 48 HOUR EMERGENCY
☐ OTHER _____

APPROVED BY: MCP w/ GW2

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☐ STANDARD
☐ COMMERCIAL "B"
☐ DISK DELIVERABLE
☐ STATE FORMS
☐ OTHER (SPECIFY) _____

COMMENTS/REMARKS

MCP
GW2

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	2/4/10 1440	1.	2.	2/4/10 1500	2.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3.		3.	4.		4.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐	TEMPERATURE 2.0 °C
5.		5.				

M89148: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M89148 **Client:** AMEC **Immediate Client Services Action Required:** No

Date / Time Received: 2/4/2010 3:00:00 PM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: GE WATERTOWN **Airbill #'s:** N/A

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	
2. Trip Blank listed on COC:	☐		☐	
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume rec'd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

M89148: Chain of Custody
Page 2 of 2

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Accutest Laboratories of New England	Project #:	M89148
Project Location:	GE Watertown MA	MADEP RTN [1]	None

This form provides certifications for the following data set:
M89148-1,M89148-2,M89148-3,M89148-4,M89148-5,M89148-6,M89148-7,M89148-8

Test method: Refer to case narrative.

Sample Matrices:	Groundwater X	Soil/Sediment ( )	Drinking Water ( )	other ( )	( )

MCP SW-846 Methods Used (As specified in MADEP Compendium of Analytical Methods. (Check all that apply))					
	8260B (X)	8151A ( )	8330 ( )	6010B (X)	7470A/1A (X)
	8270C (X)	8081A ( )	VPH (X)	6020 ( )	9014M [2] ( )
	8082 (X)	8021B ( )	EPH (X)	7000 S [3] ( )	7196A ( )

1 List Release Tracking Number (RTN), if known
2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S - SW-846 Methods 7000 Series List Individual method and analyte

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status

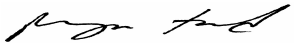
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☑	Yes	☐ No [1]
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☑	Yes	☐ No [1]
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑	Yes	☐ No [1]
D	**VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☑	Yes	☐ No [1]

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	☐ **Refer to Narrative**	Yes	☑ No [1]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐ **Refer to Narrative**	Yes	☑ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

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

Signature:  **Position:** **Laboratory Director**

Printed Name: **Reza Tand** **Date:** **02/16/2010**

MADEP EPH FORM

Matrix	**Aqueous**	☑	**Soil**	☐	**Sediment**	☐	**Other**	☐
Containers	**Satisfactory**	☑	**Broken**	☐	**Leaking**	☐		
Aqueous Preservative	**N/A**	☐	**pH <= 2**	☑	**pH > 2**	☐		
Temperature	**Received on Ice**	☐	**Received at 4 Deg. C**	☐	**Other**	☑	Rec'd at 2.0 deg C	
Extraction Method	**SW846 3510C**							

Method for Ranges:	MADEP EPH REV 1.1
Method for Targets:	MADEP EPH REV 1.1
EPH Surrogate Stds.	Aliphatic: 1-Chlorooctadecane Aromatic: o-Terphenyl
EPH Fractionation Surrogate Standards.	2-Fluorobiphenyl 2-Bromonaphthalene

Client ID: MW10 0210 **Lab ID:** M89148-3

Date Collected: 2/4/2010 **Date Received:** 2/4/2010

Date Extracted:	First Date Run:	Last Date Run:
2/13/2010	2/16/2010	N/A
% Solids:	**Low Dilution:**	**High Dilution:**
N/A	1	N/A

Unadjusted Ranges	CAS #	Units	Result	RDL	Q
C11-C22 Aromatics (Unadj.)		ug/l	ND [A]	100	
Diesel PAH Analytes					
2-Methylnaphthalene	91-57-6	ug/l	ND	5.1	
Phenanthrene	85-01-8	ug/l	ND	5.1	
Acenaphthene	83-32-9	ug/l	ND	5.1	
Naphthalene	91-20-3	ug/l	ND	5.1	
Other Target PAH Analytes					
Acenaphthylene	208-96-8	ug/l	ND	5.1	
Anthracene	120-12-7	ug/l	ND	5.1	
Benzo(a)anthracene	56-55-3	ug/l	ND	5.1	
Benzo(a)pyrene	50-32-8	ug/l	ND	5.1	
Benzo(b)fluoranthene	205-99-2	ug/l	ND	5.1	
Benzo(g,h,i)perylene	191-24-2	ug/l	ND	5.1	
Benzo(k)fluoranthene	207-08-9	ug/l	ND	5.1	
Chrysene	218-01-9	ug/l	ND	5.1	
Dibenz(a,h)anthracene	53-70-3	ug/l	ND	5.1	
Fluoranthene	206-44-0	ug/l	ND	5.1	
Fluorene	86-73-7	ug/l	ND	5.1	
Indeno(1,2,3-cd)pyrene	193-39-5	ug/l	ND	5.1	
Pyrene	129-00-0	ug/l	ND	5.1	
Adjusted Ranges					
C9-C18 Aliphatics		ug/l	ND [A]	100	
C19-C36 Aliphatics		ug/l	ND [A]	100	
C11-C22 Aromatics		ug/l	ND [C]	100	
Surrogate Recoveries				**Acceptance Range**	
1-Chlorooctadecane		%	60	40-140 %	
o-Terphenyl		%	61	40-140 %	
2-Fluorobiphenyl		%	60	40-140 %	
2-Bromonaphthalene		%	60	40-140 %	

Footnotes

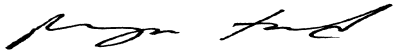
A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

C Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the EPH Method followed?	☑ **Yes** ☐	**No- Details Attatched**
Were all performance/acceptance standards for required QA/QC procedures achieved?	☑ **Yes** ☐	**No- Details Attatched**
Were any significant modifications made to the EPH method, as specified in Sect. 11.3?	☑ **No** ☐	**Yes- Details Attatched**

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

Signature  **Postition** **Laboratory Director**

Printed Name **Reza Tand** **Date** **2/16/2010**

MADEP VPH FORM

Matrix	**Aqueous**	☑	**Soil**	☐	**Sediment**	☐	**Other**	☐
Containers	**Satisfactory**	☑	**Broken**	☐	**Leaking**	☐		
Aqueous Preservatives	**N/A**	☐	**pH <= 2**	☑	**pH > 2**	☐		
Temperature	**Received on Ice**	☐	**Received at 4 Deg. C**	☐	**Other**	☑	Rec'd at 2.0 deg C	
Methanol	**N/A**							

Method for Ranges: MADEP VPH REV 1.1
Method for Target Analytes: MADEP VPH REV 1.1
VPH Surrogate Standards
PID: 2,5-Dibromotoluene
FID: 2,5-Dibromotoluene

Client ID: MW10 0210 **Lab ID:** M89148-3
Date Collected: 2/4/2010 **Date Received:** 2/4/2010

Date Extracted: N/A
First Date Run: 2/8/2010
Last Date Run: N/A
% Solids: N/A
Low Dilution: 1
High Dilution: N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	57.7 [A]	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND [A]	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	ND [A]	50	
Target Analytes						
Ethylbenzene	100-41-4	C9-C12	ug/l	ND	2	
Toluene	108-88-3	C5-C8	ug/l	ND	2	
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	ND	1	
Benzene	71-43-2	C5-C8	ug/l	ND	2	
Naphthalene	91-20-3	N/A	ug/l	ND	3	
o-Xylene	95-47-6	C9-C12	ug/l	ND	2	
m,p-Xylene		C9-C12	ug/l	ND	2	
Adjusted Ranges						
C5- C8 Aliphatics		N/A	ug/l	57.7 [B]	50	
C9- C12 Aliphatics		N/A	ug/l	ND [D]	50	

Surrogate Recoveries		Result	Acceptance Range
FID:2,5-Dibromotoluene	%	98	70-130 %
PID:2,5-Dibromotoluene	%	87	70-130 %

Footnotes

A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

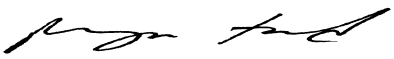
B Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

D Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C9-C12 aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C9-C10 Aromatic Hydrocarbons.

Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the VPH Method followed? ☑ Yes ☐ No- Details Attatched
Were all performance/acceptance standards for required QA/QC procedures achieved? ☑ Yes ☐ No- Details Attatched
Were any significant modifications made to the VPH method, as specified in Sect. 11.3? ☑ No ☐ Yes- Details Attatched

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

Signature  **Postition** Laboratory Director

Printed Name Reza Tand **Date** 2/16/2010

New England ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

02/14/10

Technical Report for

AMEC

GE Watertown MA

778190012

Accutest Job Number: M89130

Sampling Date: 02/03/10

Report to:

mike.j.robinson@amec.com

ATTN: Distribution6

Total number of pages in report: **81**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (2502) RI (00071) ME (MA0136) FL (E87579) NY (11791) NJ (MA926) NC (653) IL (200018) NAVY USACE

Sample Summary

AMEC

Job No: M89130

GE Watertown MA
Project No: 778190012

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M89130-1	02/03/10	11:30	HAM	02/04/10	AQ	Ground Water	MW240210
M89130-2	02/03/10	11:20	HAM	02/04/10	AQ	Ground Water	MW21D0210

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	AMEC	**Job No**	M89130
Site:	GE Watertown MA	**Report Date**	2/12/2010 5:33:40 PM

2 Sample(s) were collected on 02/03/2010 and were received at Accutest on 02/04/2010 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of M89130. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSN1497

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Continuing calibration check standard for Bromomethane exceed 30% Difference. This check standard met MCP criteria.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP20579

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M89146-1MS, M89146-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 3-Nitroaniline, 4-Chloroaniline, Phenol are outside control limits. Blank Spike meets program technical requirements.
- MS/MSD Recovery(s) for 3-Nitroaniline, 4-Chloroaniline, Phenol are outside control limits. Blank Spike meets program technical requirements.
- RPD for OP20579-BSD for 3-Nitroaniline, 3,3'-Dichlorobenzidine, 4-Chloroaniline: Outside control limits. Blank Spike meets program technical requirements.
- RPD for OP20579-MSD for 4-Chloroaniline: Outside control limits. Blank Spike meets program technical requirements.
- BSD Recovery(s) for 4-Chloroaniline, Phenol are outside control limits. Blank Spike meets program technical requirements.
- Initial calibration standard MSS450-ICC450 for bis(2-chloroisopropyl)ether, 2,4-Dinitrophenol, Benzo[b]fluoranthene, Indeno[1,2,3-cd]pyrene, Dibenz[a,h]anthracene, Benzo[g,h,i]perylene is employed quadratic regression.

Volatiles by GC By Method MADEP VPH REV 1.1

Matrix AQ **Batch ID:** GBH539

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Volatiles by GC By Method SW846 8015

Matrix AQ **Batch ID:** GBA784

- All samples were analyzed within the recommended method holding time.
- Sample(s) M89130-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD for M89130-1DUP for Methane: Outside control limits due to sample values below RDL.

Extractables by GC By Method SW846 8082

Matrix AQ **Batch ID:** OP20588

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M89226-4MS, M89226-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix AQ **Batch ID:** MP14779

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89111-1ADUP, M89111-1AMS, M89111-1ASDL, M89111-1ADUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Cadmium are outside control limits for sample MP14779-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Barium, Cadmium, Selenium are outside control limits for sample MP14779-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Metals By Method SW846 7470A

Matrix AQ **Batch ID:** MP14786

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89146-1DUP, M89146-1MS were used as the QC samples for metals.

Wet Chemistry By Method ASTM516-90,02

Matrix AQ **Batch ID:** GN31035

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89130-1DUP, M89130-1MS were used as the QC samples for Sulfate.

Wet Chemistry By Method EPA 353.2

Matrix	AQ	Batch ID:	GP11241

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89130-1DUP, M89130-1MS were used as the QC samples for Nitrogen, Nitrite.

Matrix	AQ	Batch ID:	GP11267

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89130-1DUP, M89130-1MS were used as the QC samples for Nitrogen, Nitrate + Nitrite.

Matrix	AQ	Batch ID:	R26441

- M89130-1 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix	AQ	Batch ID:	R26442

- M89130-2 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Wet Chemistry By Method SM21 2320B

Matrix	AQ	Batch ID:	GN31071

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89179-7DUP, M89179-7MS were used as the QC samples for Alkalinity, Total as CaCO3.

Wet Chemistry By Method SM21 4500 S F

Matrix	AQ	Batch ID:	GN31062

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89148-3MS, M89148-5DUP were used as the QC samples for Sulfide.

Wet Chemistry By Method SM21 4500CL C

Matrix	AQ	Batch ID:	GN31045

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89130-1DUP, M89130-1MS were used as the QC samples for Chloride.

Wet Chemistry By Method SM21 5310 B

Matrix	AQ	Batch ID:	GP11254

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M89130-1DUP, M89130-1MS were used as the QC samples for Total Organic Carbon.
- RPD(s) for Duplicate for Total Organic Carbon are outside control limits for sample GP11254-D1. High recovery/RPD due to possible nonhomogeneity between sample bottles.
- GP11254-S1 for Total Organic Carbon: Spike recovery indicates possible nonhomogeneity between sample bottles.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M89130).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW240210		
Lab Sample ID:	M89130-1	**Date Sampled:**	02/03/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N39835.D	1	02/05/10	WC	n/a	n/a	MSN1497
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.3	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	31.6	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.4	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	13.7	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW240210		
Lab Sample ID:	M89130-1	**Date Sampled:**	02/03/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

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Report of Analysis

Client Sample ID:	MW240210		
Lab Sample ID:	M89130-1	**Date Sampled:**	02/03/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S13048.D	1	02/11/10	PN	02/08/10	OP20579	MSS462
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	ug/l	
95-48-7	2-Methylphenol	ND	11	ug/l	
	3&4-Methylphenol	ND	11	ug/l	
88-75-5	2-Nitrophenol	ND	11	ug/l	
100-02-7	4-Nitrophenol	ND	21	ug/l	
87-86-5	Pentachlorophenol	ND	11	ug/l	
108-95-2	Phenol	ND	5.3	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	11	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	ug/l	
83-32-9	Acenaphthene	ND	5.3	ug/l	
208-96-8	Acenaphthylene	ND	5.3	ug/l	
120-12-7	Anthracene	ND	5.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.3	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.3	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.3	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.3	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.3	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	ug/l	
106-47-8	4-Chloroaniline	ND	11	ug/l	
86-74-8	Carbazole	ND	5.3	ug/l	
218-01-9	Chrysene	ND	5.3	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW240210		
Lab Sample ID:	M89130-1	**Date Sampled:**	02/03/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.3	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.3	ug/l	
132-64-9	Dibenzofuran	ND	5.3	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.3	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.3	ug/l	
84-66-2	Diethyl phthalate	ND	5.3	ug/l	
131-11-3	Dimethyl phthalate	ND	5.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	ug/l	
206-44-0	Fluoranthene	ND	5.3	ug/l	
86-73-7	Fluorene	ND	5.3	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.3	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	ug/l	
67-72-1	Hexachloroethane	ND	5.3	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.3	ug/l	
78-59-1	Isophorone	ND	5.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.3	ug/l	
88-74-4	2-Nitroaniline	ND	11	ug/l	
99-09-2	3-Nitroaniline	ND	11	ug/l	
100-01-6	4-Nitroaniline	ND	11	ug/l	
91-20-3	Naphthalene	ND	5.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	ug/l	
85-01-8	Phenanthrene	ND	5.3	ug/l	
129-00-0	Pyrene	ND	5.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		15-110%
4165-62-2	Phenol-d5	26%		15-110%
118-79-6	2,4,6-Tribromophenol	101%		15-110%
4165-60-0	Nitrobenzene-d5	83%		30-130%
321-60-8	2-Fluorobiphenyl	84%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW240210		
Lab Sample ID:	M89130-1	**Date Sampled:**	02/03/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	95%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW240210		
Lab Sample ID:	M89130-1	**Date Sampled:**	02/03/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BH10568.D	1	02/06/10	AP	n/a	n/a	GBH539
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

MA-VPH List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	3.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	
	C5- C8 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	ug/l	
	C5- C8 Aliphatics	ND	50	ug/l	
	C9- C12 Aliphatics	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
615-59-8	2,5-Dibromotoluene	107%		70-130%
615-59-8	2,5-Dibromotoluene	84%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW240210		
Lab Sample ID:	M89130-1	**Date Sampled:**	02/03/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GBA12743.D	1	02/05/10	AF	n/a	n/a	GBA784
Run #2	GBA12745.D	10	02/05/10	AF	n/a	n/a	GBA784

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.30	ug/l	
74-84-0	Ethane	ND	0.10	ug/l	
74-85-1	Ethene	ND	0.10	ug/l	
124-38-9	Carbon Dioxide	17700 [a]	1000	ug/l	

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW240210		
Lab Sample ID:	M89130-1	**Date Sampled:**	02/03/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
Method:	SW846 8082 SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB28582.D	1	02/12/10	SL	02/08/10	OP20588	GBB1182
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.28	ug/l	
11104-28-2	Aroclor 1221	ND	0.28	ug/l	
11141-16-5	Aroclor 1232	ND	0.28	ug/l	
53469-21-9	Aroclor 1242	ND	0.28	ug/l	
12672-29-6	Aroclor 1248	ND	0.28	ug/l	
11097-69-1	Aroclor 1254	ND	0.28	ug/l	
11096-82-5	Aroclor 1260	ND	0.28	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	116%		30-150%
877-09-8	Tetrachloro-m-xylene	110%		30-150%
2051-24-3	Decachlorobiphenyl	104%		30-150%
2051-24-3	Decachlorobiphenyl	99%		30-150%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW240210		
Lab Sample ID:	M89130-1	**Date Sampled:**	02/03/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
		Percent Solids:	n/a
Project:	GE Watertown MA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 10	10	ug/l	1	02/05/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	02/05/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	02/05/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	02/05/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]
Lead	18.4	5.0	ug/l	1	02/05/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	02/09/10	02/09/10	MA	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 10	10	ug/l	1	02/05/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	02/05/10	02/08/10	PY	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA11446
(2) Instrument QC Batch: MA11448
(3) Prep QC Batch: MP14779
(4) Prep QC Batch: MP14786

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW240210		
Lab Sample ID:	M89130-1	**Date Sampled:**	02/03/10
Matrix:	AQ - Ground Water	**Date Received:**	02/04/10
		Percent Solids:	n/a
Project:	GE Watertown MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3	24.6	5.0	mg/l	1	02/09/10	MS	SM21 2320B
Chloride	695	10	mg/l	10	02/05/10	CF	SM21 4500CL C
Nitrogen, Nitrate [a]	1.3	0.11	mg/l	1	02/11/10 12:04	CF	EPA 353.2
Nitrogen, Nitrate + Nitrite	1.3	0.10	mg/l	1	02/11/10 12:04	CF	EPA 353.2
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	02/04/10 16:10	MS	EPA 353.2
Sulfate	51.9	10	mg/l	2	02/05/10	MS	ASTM516-90,02
Sulfide	< 2.0	2.0	mg/l	1	02/08/10	BF	SM21 4500 S F
Total Organic Carbon	7.5	1.0	mg/l	1	02/08/10 11:39	MS	SM21 5310 B

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- VPH Form
- Sample Tracking Chronicle

Parameter Certifications

Job Number: M89130
Account: AMECMAW AMEC
Project: GE Watertown MA

The following parameters included in this report are certified by the state of MA.

Parameter	CAS#	Method	Mat	Certification Status
Alkalinity, Total as CaCO3		**SM21 2320B**	AQ	Accutest is certified for this parameter.
Chloride	16887-00-6	**SM21 4500CL C**	AQ	Accutest is certified for this parameter.
Nitrogen, Nitrate	14797-55-8	**EPA 353.2**	AQ	Accutest is certified for this parameter.
Nitrogen, Nitrate + Nitrite		**EPA 353.2**	AQ	Accutest is certified for this parameter.
Sulfate	14808-79-8	**ASTM516-90,02**	AQ	Accutest is certified for this parameter.
Total Organic Carbon		**SM21 5310 B**	AQ	Accutest is certified for this parameter.

CHAIN OF CUSTODY

ACCUTEST Laboratories

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #: M89130
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: AMEC
ADDRESS: 2 Robbins Rd
CITY: Westford STATE: MA ZIP: 01886
SEND REPORT TO: mike.j.robinson@amec.com
PHONE #: 978 692 9090

FACILITY INFORMATION

PROJECT NAME: Watertown
LOCATION: 9781900012
PROJECT NO.:
FAX #:

ANALYTICAL INFORMATION

Acid VOC 8260
SVOC 8270
PCB
RCRA8/Metals
CPH
VPH
Methane, Ethane, Ethene
TOC
Sulfide
Alk, Cl, NO3, SO4

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE # M89130	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	PRESERVATION NaOH	PRESERVATION HNO3	PRESERVATION H2SO4	PRESERVATION NONE	Acid VOC 8260	SVOC 8270	PCB	RCRA8/Metals	CPH	VPH	Methane, Ethane, Ethene	TOC	Sulfide	Alk, Cl, NO3, SO4	LAB USE ONLY
-1	MW24D210	2/3/10	1130	HAM	GW	14	X	X	X			X	X	X	X	X	X	X	X	X	X	
-2	MW21D02-10	2/3/10	1120	MJT	GW	14	X	X	X			X	X	X	X	X	X	X	X	X	X	

DATA TURNAROUND INFORMATION

- ☐ 14 DAYS STANDARD
- ☐ 7 DAYS *RUSH*
- ☐ 48 HOUR EMERGENCY
- ☐ OTHER _____

APPROVED BY: _____

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☐ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY) _____

COMMENTS/REMARKS

Cor. 19AA, 14F, 6F, 4L2

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	2/4/10 0900	1.	2.	2/4/10 935	2.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3.		3.	4.		4.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐	TEMPERATURE 2.0 °C
5.		5.				

M89130: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M89130 **Client:** AMEC **Immediate Client Services Action Required:** No

Date / Time Received: 2/4/2010 9:35:00 AM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: GE WATER. **Airbill #'s:** NA

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	
2. Trip Blank listed on COC:	☐		☐	
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume rec'd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

M89130: Chain of Custody
Page 2 of 2

Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Accutest Laboratories of New England	Project #:	M89130
Project Location:	GE Watertown MA	MADEP RTN [1]	None

This form provides certifications for the following data set:
M89130-1,M89130-2

Test method: Refer to case narrative.

Sample Matrices: Groundwater X Soil/Sediment ( ) Drinking Water ( ) other ( ) ( )

MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B (X)	7470A/1A (X)
	8270C (X)	8081A ( )	VPH (X)	6020 ( )	9014M [2] ( )
As specified in MADEP Compendium of Analytical Methods. (Check all that apply)	8082 (X)	8021B ( )	EPH ( )	7000 S [3] ( )	7196A ( )

1 List Release Tracking Number (RTN), if known
2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S - SW-846 Methods 7000 Series List Individual method and analyte

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status

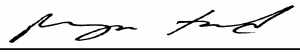
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☑	Yes	☐ No [1]
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☑	Yes	☐ No [1]
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑	Yes	☐ No [1]
D	**VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☑	Yes	☐ No [1]

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	☐ **Refer to Narrative**	Yes	☑ No [1]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐ **Refer to Narrative**	Yes	☑ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

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

Signature:  **Position:** **Laboratory Director**

Printed Name: **Reza Tand** **Date:** **02/12/2010**

MADEP VPH FORM

Matrix	**Aqueous**	☑	**Soil**	☐	**Sediment**	☐	**Other**	☐
Containers	**Satisfactory**	☑	**Broken**	☐	**Leaking**	☐		
Aqueous Preservatives	**N/A**	☐	**pH <= 2**	☑	**pH > 2**	☐		
Temperature	**Received on Ice**	☐	**Received at 4 Deg. C**	☐	**Other**	☑	Rec'd at 2 deg C	
Methanol	**N/A**							

Method for Ranges: MADEP VPH REV 1.1
Method for Target Analytes: MADEP VPH REV 1.1
VPH Surrogate Standards
PID: 2,5-Dibromotoluene
FID: 2,5-Dibromotoluene

Client ID: MW240210 **Lab ID:** M89130-1
Date Collected: 2/3/2010 **Date Received:** 2/4/2010

Date Extracted: N/A
First Date Run: 2/6/2010
Last Date Run: N/A
% Solids: N/A
Low Dilution: 1
High Dilution: N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	ND [A]	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND [A]	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	ND [A]	50	
Target Analytes						
Ethylbenzene	100-41-4	C9-C12	ug/l	ND	2	
Toluene	108-88-3	C5-C8	ug/l	ND	2	
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	ND	1	
Benzene	71-43-2	C5-C8	ug/l	ND	2	
Naphthalene	91-20-3	N/A	ug/l	ND	3	
o-Xylene	95-47-6	C9-C12	ug/l	ND	2	
m,p-Xylene		C9-C12	ug/l	ND	2	
Adjusted Ranges						
C5- C8 Aliphatics		N/A	ug/l	ND [B]	50	
C9- C12 Aliphatics		N/A	ug/l	ND [C]	50	

Surrogate Recoveries		Result	Acceptance Range
FID:2,5-Dibromotoluene	%	107	70-130 %
PID:2,5-Dibromotoluene	%	84	70-130 %

Footnotes

A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

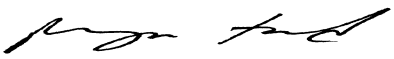
B Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

C Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C9-C12 aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C9-C10 Aromatic Hydrocarbons.

Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the VPH Method followed? ☑ Yes ☐ No- Details Attatched
Were all performance/acceptance standards for required QA/QC procedures achieved? ☑ Yes ☐ No- Details Attatched
Were any significant modifications made to the VPH method, as specified in Sect. 11.3? ☑ No ☐ Yes- Details Attatched

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

Signature  **Postition** Laboratory Director

Printed Name Reza Tand **Date** 2/12/2010

Technical Report for

AMEC

GE Watertown MA

778190012

Accutest Job Number: M86013

Sampling Dates: 09/22/09 - 09/23/09

Report to:

AMEC

mike.j.robinson@amec.com

ATTN: Mike Robinson

Total number of pages in report: **168**

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (2502) RI (00071) ME (MA0136) FL (E87579) NY (11791) NJ (MA926) NC (653) IL (200018) NAVY USACE

Accutest Laboratories

Sample Summary

AMEC

Job No: M86013

GE Watertown MA
Project No: 778190012

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M86013-1	09/23/09	09:42	HAM	09/23/09	AQ	Ground Water	MW-11 0909
M86013-2	09/23/09	07:56	HAM	09/23/09	AQ	Ground Water	MW-12 0909
M86013-3	09/23/09	11:42	HAM	09/23/09	AQ	Ground Water	MW-4 0909
M86013-4	09/23/09	13:40	HAM	09/23/09	AQ	Ground Water	MW-10 0909
M86013-5	09/23/09	13:45	MR	09/23/09	AQ	Ground Water	MW-2 0909
M86013-6	09/22/09	13:15	HAM	09/23/09	AQ	Ground Water	MW-9 0909
M86013-7	09/22/09	13:25	MR	09/23/09	AQ	Ground Water	MW-19 0909
M86013-8	09/22/09	15:05	HAM	09/23/09	AQ	Ground Water	MW-16 0909
M86013-9	09/22/09	16:20	HAM	09/23/09	AQ	Ground Water	MW-5 0909
M86013-10	09/22/09	14:45	MR	09/23/09	AQ	Ground Water	MW-8 0909
M86013-11	09/22/09	00:00	HAM	09/23/09	AQ	Ground Water	DUP1

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	AMEC	**Job No**	M86013
Site:	GE Watertown MA	**Report Date**	9/30/2009 5:24:15 PM

11 Sample(s) were collected on between 09/22/2009 and 09/23/2009 and were received at Accutest on 09/23/2009 properly preserved, at 2.1 Deg. C and intact. These Samples received an Accutest job number of M86013. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSG3774

- All samples were analyzed within the recommended method holding time.
- Sample(s) M85963-4MS, M85963-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- BS/BSD Recovery(s) for 2-Butanone (MEK), Acetone, Vinyl chloride are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for Chloromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Acetone are outside control limits. Blank Spike meets program technical requirements.
- Initial calibration standard in the batch MSG3767 for benzene, chlorobenzene is employed quadratic regression.
- M85963-4MS for Acetone, Vinyl chloride: Outside control limits. Blank Spike meets program technical requirements.

Matrix AQ **Batch ID:** MSG3776

- All samples were analyzed within the recommended method holding time.
- Sample(s) M85969-3MS, M85969-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- BS/BSD Recovery(s) for several compounds are outside control limits. Blank Spike meets program technical requirements.
- Continuing calibration check standard for acetone, 2-butanone exceed 30% Difference. This check standard met MCP criteria.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP19579

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M86134-12MS, M86134-12MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 2,4-Dimethylphenol, 4-Chloroaniline, Hexachlorocyclopentadiene are outside control limits. Blank Spike meets program technical requirements. BSD, MS, MSD Recovery(s) for Hexachlorocyclopentadiene are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for Dimethyl phthalate are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Initial calibration standard MSS375-ICC375 for Hexachlorocyclopentadiene, 2,4-Dinitrophenol, Pentachloropnol is employed quadratic regression.
- RPD(s) for MSD for 2,4-Dimethylphenol are outside control limits for sample OP19579-MSD. Blank Spike meets program technical requirements.
- RPD for OP19579-BSD for several compounds: Outside control limits. Blank Spike meets program technical requirements.
- OP19579-BSD for 3,3'-Dichlorobenzidine: Outside control limits. Blank Spike meets program technical requirements.

Volatiles by GC By Method MADEP VPH REV 1.1

Matrix AQ **Batch ID:** GAB2968

- All samples were analyzed within the recommended method holding time.
- Sample(s) M85964-5MS, M85964-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix AQ **Batch ID:** GBD1500

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix AQ **Batch ID:** OP19563

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP19563-BS for C11-C22 Aromatics (Unadj.): Aromatic breakthrough (naphthalene and/or 2-methylnaphthalene) exceeded 5% method limit. Results confirmed by refractionation.
- M86013-11 for 1-Chlorooctadecane: Outside control limits due to possible matrix interference. Confirmed by refractionation.
- M86013-8 for 1-Chlorooctadecane: Outside control limits due to possible matrix interference. Confirmed by refractionation.
- M86013-5 for 1-Chlorooctadecane: Outside control limits due to possible matrix interference. Confirmed by refractionation.
- M86013-9 for 1-Chlorooctadecane: Outside control limits due to possible matrix interference. Confirmed by refractionation.
- M86013-4 for 1-Chlorooctadecane: Outside control limits due to possible matrix interference. Confirmed by refractionation.
- M86013-2 for 1-Chlorooctadecane: Outside control limits due to possible matrix interference. Confirmed by refractionation.
- RPD for OP19563-BSD for several compounds: Target recovery satisfactory.
- M86013-3 for 1-Chlorooctadecane: Outside control limits due to possible matrix interference. Confirmed by refractionation.
- M86013-1 for 1-Chlorooctadecane: Outside control limits due to possible matrix interference. Confirmed by refractionation.

Metals By Method SW846 6010B

Matrix	AQ	Batch ID:	MP14153

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M86013-1DUP, M86013-1MS, M86013-1SDL, M86013-1DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Arsenic, Selenium are outside control limits for sample MP14153-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Arsenic, Cadmium are outside control limits for sample MP14153-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Metals By Method SW846 7470A

Matrix	AQ	Batch ID:	MP14161

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M86013-1DUP, M86013-1MS were used as the QC samples for metals.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M86013).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-11 0909		
Lab Sample ID:	M86013-1	**Date Sampled:**	09/23/09
Matrix:	AQ - Ground Water	**Date Received:**	09/23/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G93357.D	1	09/24/09	EL	n/a	n/a	MSG3774
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	14.1	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	22.9	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11 0909		
Lab Sample ID:	M86013-1	**Date Sampled:**	09/23/09
Matrix:	AQ - Ground Water	**Date Received:**	09/23/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	107%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11 0909		
Lab Sample ID:	M86013-1	**Date Sampled:**	09/23/09
Matrix:	AQ - Ground Water	**Date Received:**	09/23/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S10713.D	1	09/29/09	PN	09/28/09	OP19579	MSS383
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.2	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	10	ug/l	
	3&4-Methylphenol	ND	10	ug/l	
88-75-5	2-Nitrophenol	ND	10	ug/l	
100-02-7	4-Nitrophenol	ND	21	ug/l	
87-86-5	Pentachlorophenol	ND	10	ug/l	
108-95-2	Phenol	ND	5.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	ug/l	
83-32-9	Acenaphthene	ND	5.2	ug/l	
208-96-8	Acenaphthylene	ND	5.2	ug/l	
120-12-7	Anthracene	ND	5.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	ug/l	
106-47-8	4-Chloroaniline	ND	10	ug/l	
86-74-8	Carbazole	ND	5.2	ug/l	
218-01-9	Chrysene	ND	5.2	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11 0909		
Lab Sample ID:	M86013-1	**Date Sampled:**	09/23/09
Matrix:	AQ - Ground Water	**Date Received:**	09/23/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.2	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.2	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	ug/l	
132-64-9	Dibenzofuran	ND	5.2	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	ug/l	
206-44-0	Fluoranthene	ND	5.2	ug/l	
86-73-7	Fluorene	ND	5.2	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	ug/l	
67-72-1	Hexachloroethane	ND	5.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	ug/l	
78-59-1	Isophorone	ND	5.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	ug/l	
88-74-4	2-Nitroaniline	ND	10	ug/l	
99-09-2	3-Nitroaniline	ND	10	ug/l	
100-01-6	4-Nitroaniline	ND	10	ug/l	
91-20-3	Naphthalene	ND	5.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	ug/l	
85-01-8	Phenanthrene	ND	5.2	ug/l	
129-00-0	Pyrene	ND	5.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		15-110%
4165-62-2	Phenol-d5	23%		15-110%
118-79-6	2,4,6-Tribromophenol	85%		15-110%
4165-60-0	Nitrobenzene-d5	85%		30-130%
321-60-8	2-Fluorobiphenyl	79%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11 0909		
Lab Sample ID:	M86013-1	**Date Sampled:**	09/23/09
Matrix:	AQ - Ground Water	**Date Received:**	09/23/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	70%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11 0909		
Lab Sample ID:	M86013-1	**Date Sampled:**	09/23/09
Matrix:	AQ - Ground Water	**Date Received:**	09/23/09
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB53097.D	1	09/25/09	AP	n/a	n/a	GAB2968
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

MA-VPH List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	3.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	
	C5- C8 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	ug/l	
	C5- C8 Aliphatics	ND	50	ug/l	
	C9- C12 Aliphatics	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
615-59-8	2,5-Dibromotoluene	88%		70-130%
615-59-8	2,5-Dibromotoluene	86%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-11 0909
Lab Sample ID: M86013-1
Matrix: AQ - Ground Water
Method: MADEP EPH REV 1.1 SW846 3510C
Project: GE Watertown MA

Date Sampled: 09/23/09
Date Received: 09/23/09
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BG11225.D	1	09/30/09	WZ	09/24/09	OP19563	GBG374
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.3	ug/l	
208-96-8	Acenaphthylene	ND	5.3	ug/l	
120-12-7	Anthracene	ND	5.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.3	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.3	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.3	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.3	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.3	ug/l	
218-01-9	Chrysene	ND	5.3	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.3	ug/l	
206-44-0	Fluoranthene	ND	5.3	ug/l	
86-73-7	Fluorene	ND	5.3	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.3	ug/l	
91-20-3	Naphthalene	ND	5.3	ug/l	
85-01-8	Phenanthrene	ND	5.3	ug/l	
129-00-0	Pyrene	ND	5.3	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	110	ug/l	
	C9-C18 Aliphatics	ND	110	ug/l	
	C19-C36 Aliphatics	ND	110	ug/l	
	C11-C22 Aromatics	ND	110	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		40-140%
321-60-8	2-Fluorobiphenyl	87%		40-140%
3386-33-2	1-Chlorooctadecane	34% [a]		40-140%
580-13-2	2-Bromonaphthalene	63%		40-140%

(a) Outside control limits due to possible matrix interference. Confirmed by refractionation.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11 0909		
Lab Sample ID:	M86013-1	**Date Sampled:**	09/23/09
Matrix:	AQ - Ground Water	**Date Received:**	09/23/09
		Percent Solids:	n/a
Project:	GE Watertown MA		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 10	10	ug/l	1	09/24/09	09/28/09	EAL	SW846 6010B [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	09/24/09	09/28/09	EAL	SW846 6010B [2]	SW846 3010A [3]
Cadmium	< 4.0	4.0	ug/l	1	09/24/09	09/28/09	EAL	SW846 6010B [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	09/24/09	09/28/09	EAL	SW846 6010B [2]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	09/24/09	09/28/09	EAL	SW846 6010B [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	09/25/09	09/28/09	CF	SW846 7470A [1]	SW846 7470A [4]
Selenium	< 10	10	ug/l	1	09/24/09	09/28/09	EAL	SW846 6010B [2]	SW846 3010A [3]
Silver	< 5.0	5.0	ug/l	1	09/24/09	09/28/09	EAL	SW846 6010B [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA10998
(2) Instrument QC Batch: MA11006
(3) Prep QC Batch: MP14153
(4) Prep QC Batch: MP14161

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-10 0909		
Lab Sample ID:	M86013-4	**Date Sampled:**	09/23/09
Matrix:	AQ - Ground Water	**Date Received:**	09/23/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G93360.D	1	09/24/09	EL	n/a	n/a	MSG3774
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	11.2	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	159	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	27.9	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10 0909		
Lab Sample ID:	M86013-4	**Date Sampled:**	09/23/09
Matrix:	AQ - Ground Water	**Date Received:**	09/23/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10 0909		
Lab Sample ID:	M86013-4	**Date Sampled:**	09/23/09
Matrix:	AQ - Ground Water	**Date Received:**	09/23/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S10716.D	1	09/29/09	PN	09/28/09	OP19579	MSS383
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	10	ug/l	
	3&4-Methylphenol	ND	10	ug/l	
88-75-5	2-Nitrophenol	ND	10	ug/l	
100-02-7	4-Nitrophenol	ND	20	ug/l	
87-86-5	Pentachlorophenol	ND	10	ug/l	
108-95-2	Phenol	ND	5.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	10	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	ug/l	
83-32-9	Acenaphthene	ND	5.1	ug/l	
208-96-8	Acenaphthylene	ND	5.1	ug/l	
120-12-7	Anthracene	ND	5.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	ug/l	
106-47-8	4-Chloroaniline	ND	10	ug/l	
86-74-8	Carbazole	ND	5.1	ug/l	
218-01-9	Chrysene	ND	5.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10 0909		
Lab Sample ID:	M86013-4	**Date Sampled:**	09/23/09
Matrix:	AQ - Ground Water	**Date Received:**	09/23/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	5.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	ug/l	
132-64-9	Dibenzofuran	ND	5.1	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.1	ug/l	
86-73-7	Fluorene	ND	5.1	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	ug/l	
67-72-1	Hexachloroethane	ND	5.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	ug/l	
78-59-1	Isophorone	ND	5.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	ug/l	
88-74-4	2-Nitroaniline	ND	10	ug/l	
99-09-2	3-Nitroaniline	ND	10	ug/l	
100-01-6	4-Nitroaniline	ND	10	ug/l	
91-20-3	Naphthalene	ND	5.1	ug/l	
98-95-3	Nitrobenzene	ND	5.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	ug/l	
85-01-8	Phenanthrene	ND	5.1	ug/l	
129-00-0	Pyrene	ND	5.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		15-110%
4165-62-2	Phenol-d5	23%		15-110%
118-79-6	2,4,6-Tribromophenol	83%		15-110%
4165-60-0	Nitrobenzene-d5	88%		30-130%
321-60-8	2-Fluorobiphenyl	81%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10 0909		
Lab Sample ID:	M86013-4	**Date Sampled:**	09/23/09
Matrix:	AQ - Ground Water	**Date Received:**	09/23/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	GE Watertown MA		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	Terphenyl-d14	66%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- EPH Form
- VPH Form
- Sample Tracking Chronicle

CHAIN OF CUSTODY

ACCUTEST Laboratories

495 Tech Center West, Bldg. 1
Marlboro, MA 01752
508-481-6200 FAX: 508-481-6200

Accutest Job #: M86013

Client Information | Facility Information

EXXONMOBIL CORPORATION - Regional Laboratory Program Northeast

Consultants Company Name: AMEC E&E	Project Name: GE Watertown
Address: 2 Robbins Rd	Street: 65 Grove St
City: Westford, State: MA, Zip:	City: Watertown, State: MA
Project Contact: Mike Robinson	ExxonMobil Contact:
Sampler's Name: Heather Moore	ExxonMobil Contact Phone #:
Phone #: 978 692 9090, Ext., Fax #:	Location ID#, WBS#
AFE #:	PO#, Line#

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled by	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MEOH	Encore	Other	None	BTEX 8260 ☐ 624 ☐ 8021 ☐ 624 ☐ MTBE ☐ TBA ☐ Naphthalene ☐ Oxygenates ☐	VOC AQUEOUS 8260 ☒ 624 ☐ 524 ☐ STD ☐ TCL ☐ PPL ☐ MTBE ☐ TBA ☐ Oxygenates ☐	VOC SOIL 8260 ☐ STD ☐ TCL ☐ PPL ☐ MTBE ☐ TBA ☐ Oxygenates ☐ 5035/LOW ☐ 5035MED ☐	VPH RANGES ☒ TARGETS ☐	EPH RANGES ☒ TARGET (PAH) ☐ DIESEL (PAH) ☐	TPH-CTDEP ☐ TPH418.1 ☐	TPH-MAINE GRO ☐ DRO ☐	TPH-8015 GRO ☐ TPH-8015 DRO ☐	METALS TOTAL ☒ DISSOLVED ☐ HM6 ☐ HM5 ☐	METALS TCLP ☐ HM6 ☐ HM5 ☐	SVOC (8270)
-1	MW-11 0909	9.23.09	0942	HAM	GW	9	7							2		2		2	2				1		2
-2	MW-12 0909		0756																						
-3	MW-4 0909		1142																						
-4	MW-10 0909		1340																						
-5	MW-2 0909		1345	MR																					
-6	MW-9 0909	9.22.09	1315	HAM																					
-7	MW-19 0909		1325	MR																					
-8	MW-16 0909		1505	HAM																					
-9	MW-5 0909		1620	HAM																					
-10	MW-8 0909		1145	MR																					

Turnaround Time (Business days)

- ☒ Std. 10 Business Days — Approved By:/Date
- ☐ 8 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day EMERGENCY

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- ☐ Commercial "A"
- ☐ Commercial "B"
- ☐ Full Deliverables
- ☐ Other
- ☐ FULL CLP
- ☐ State Forms
- ☐ Disk Deliverable Format

Site Specific: QC Yes ☐ No ☐ If yes, indicate QC sample in Comments and submit triplicate volume.

Comments / Remarks: 16A, 5E, ~~3B6~~ 3C2

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 9/23/09 1455	Received by: 1	Relinquished by: 2	Date Time: 9-23-09 1300	Received by: 2
Relinquished by: 3	Date Time:	Received by: 3	Relinquished by: 4	Date Time:	Received by: 4
Relinquished by: 5	Date Time:	Received by: 5	Seal #	Preserved where applicable ☐	On Ice ☑ Temp. 2.1°C

M86013: Chain of Custody
Page 1 of 1

Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Accutest Laboratories of New England	Project #:	M86013
Project Location:	GE Watertown MA	MADEP RTN [1]	None

This form provides certifications for the following data set:
M86013-1,M86013-10,M86013-11,M86013-2,M86013-3,M86013-4,M86013-5,M86013-6
M86013-7,M86013-8,M86013-9

Sample Matrices: Groundwater X Soil/Sediment ( ) Drinking Water ( ) other ( ) ( )

MCP SW-846 Methods Used	8260B (X)	8151A ( )	8330 ( )	6010B	(X)	7470A/1A (X)
	8270C (X)	8081A ( )	VPH (X)	6020	( )	9014M [2] ( )
As specified in MADEP Compendium of Analytical Methods. (Check all that apply)	8082 ( )	8021B ( )	EPH (X)	7000 S [3]	( )	7196A ( )

1 List Release Tracking Number (RTN), if known
2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S - SW-846 Methods 7000 Series List Individual method and analyte

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status

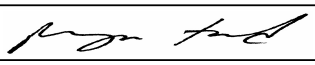
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☑	Yes	☐ No [1]
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☑	Yes	☐ No [1]
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑	Yes	☐ No [1]
D	**VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☑	Yes	☐ No [1]

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	☐ **Refer to Narrative**	Yes	☑ No [1]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐ **Refer to Narrative**	Yes	☑ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

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

Signature:  **Position:** **Laboratory Director**

Printed Name: **Reza Tand** **Date:** **09/30/2009**

MADEP EPH FORM

Matrix	**Aqueous** ☑	**Soil** ☐	**Sediment** ☐	**Other** ☐			
Containers	**Satisfactory** ☑	**Broken** ☐	**Leaking** ☐				
Aqueous Preservative	**N/A** ☐	**pH <= 2** ☑	**pH > 2** ☐				
Temperature	**Received on Ice** ☐	**Received at 4 Deg. C** ☐	**Other** ☑	Rec'd at 2.1 deg C			
Extraction Method	**SW846 3510C**						

Method for Ranges:	MADEP EPH REV 1.1	**Client ID:**	MW-11 0909	**Lab ID:**	M86013-1
Method for Targets:	MADEP EPH REV 1.1	**Date Collected:**	9/23/2009	**Date Received:**	9/23/2009
EPH Surrogate Stds.	Aliphatic: 1-Chlorooctadecane Aromatic: o-Terphenyl	**Date Extracted:**	**First Date Run:**		**Last Date Run:**
		9/24/2009	9/30/2009		N/A
EPH Fractionation Surrogate Standards.	2-Fluorobiphenyl 2-Bromonaphthalene	**% Solids:**	**Low Dilution:**		**High Dilution:**
		N/A	1		N/A

Unadjusted Ranges	**CAS #**	**Units**	**Result**	**RDL**	**Q**
C11-C22 Aromatics (Unadj.)		ug/l	ND [A]	110	
Diesel PAH Analytes					
2-Methylnaphthalene	91-57-6	ug/l	ND	5.3	
Phenanthrene	85-01-8	ug/l	ND	5.3	
Acenaphthene	83-32-9	ug/l	ND	5.3	
Naphthalene	91-20-3	ug/l	ND	5.3	
Other Target PAH Analytes					
Acenaphthylene	208-96-8	ug/l	ND	5.3	
Anthracene	120-12-7	ug/l	ND	5.3	
Benzo(a)anthracene	56-55-3	ug/l	ND	5.3	
Benzo(a)pyrene	50-32-8	ug/l	ND	5.3	
Benzo(b)fluoranthene	205-99-2	ug/l	ND	5.3	
Benzo(g,h,i)perylene	191-24-2	ug/l	ND	5.3	
Benzo(k)fluoranthene	207-08-9	ug/l	ND	5.3	
Chrysene	218-01-9	ug/l	ND	5.3	
Dibenz(a,h)anthracene	53-70-3	ug/l	ND	5.3	
Fluoranthene	206-44-0	ug/l	ND	5.3	
Fluorene	86-73-7	ug/l	ND	5.3	
Indeno(1,2,3-cd)pyrene	193-39-5	ug/l	ND	5.3	
Pyrene	129-00-0	ug/l	ND	5.3	
Adjusted Ranges					
C9-C18 Aliphatics		ug/l	ND [A]	110	
C19-C36 Aliphatics		ug/l	ND [A]	110	
C11-C22 Aromatics		ug/l	ND [C]	110	
Surrogate Recoveries				**Acceptance Range**	
1-Chlorooctadecane		%	34 [E]	40-140 %	
o-Terphenyl		%	89	40-140 %	
2-Fluorobiphenyl		%	87	40-140 %	
2-Bromonaphthalene		%	63	40-140 %	

Footnotes

A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

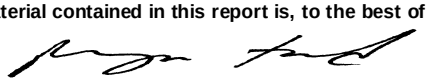
C Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

E Outside control limits due to possible matrix interference. Confirmed by refractionation.

Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the EPH Method followed?	☑ **Yes** ☐	**No- Details Attatched**
Were all performance/acceptance standards for required QA/QC procedures achieved?	☐ **Yes** ☑	**No- Details Attatched**
Were any significant modifications made to the EPH method, as specified in Sect. 11.3?	☑ **No** ☐	**Yes- Details Attatched**

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

Signature 

Postition **Laboratory Director**

Printed Name **Reza Tand**

Date **9/30/2009**

MADEP EPH FORM

Matrix	**Aqueous** ☑	**Soil** ☐	**Sediment** ☐	**Other** ☐			
Containers	**Satisfactory** ☑	**Broken** ☐	**Leaking** ☐				
Aqueous Preservative	**N/A** ☐	**pH <= 2** ☑	**pH > 2** ☐				
Temperature	**Received on Ice** ☐	**Received at 4 Deg. C** ☐	**Other** ☑	Rec'd at 2.1 deg C			
Extraction Method	**SW846 3510C**						

Method for Ranges: MADEP EPH REV 1.1
Method for Targets: MADEP EPH REV 1.1
EPH Surrogate Stds. Aliphatic: 1-Chlorooctadecane; Aromatic: o-Terphenyl
EPH Fractionation Surrogate Standards. 2-Fluorobiphenyl; 2-Bromonaphthalene

Client ID: MW-10 0909 **Lab ID:** M86013-4
Date Collected: 9/23/2009 **Date Received:** 9/23/2009
Date Extracted: 9/24/2009 **First Date Run:** 9/30/2009 **Last Date Run:** N/A
% Solids: N/A **Low Dilution:** 1 **High Dilution:** N/A

Unadjusted Ranges	CAS #	Units	Result	RDL	Q
C11-C22 Aromatics (Unadj.)		ug/l	ND [A]	110	
Diesel PAH Analytes					
2-Methylnaphthalene	91-57-6	ug/l	ND	5.3	
Phenanthrene	85-01-8	ug/l	ND	5.3	
Acenaphthene	83-32-9	ug/l	ND	5.3	
Naphthalene	91-20-3	ug/l	ND	5.3	
Other Target PAH Analytes					
Acenaphthylene	208-96-8	ug/l	ND	5.3	
Anthracene	120-12-7	ug/l	ND	5.3	
Benzo(a)anthracene	56-55-3	ug/l	ND	5.3	
Benzo(a)pyrene	50-32-8	ug/l	ND	5.3	
Benzo(b)fluoranthene	205-99-2	ug/l	ND	5.3	
Benzo(g,h,i)perylene	191-24-2	ug/l	ND	5.3	
Benzo(k)fluoranthene	207-08-9	ug/l	ND	5.3	
Chrysene	218-01-9	ug/l	ND	5.3	
Dibenz(a,h)anthracene	53-70-3	ug/l	ND	5.3	
Fluoranthene	206-44-0	ug/l	ND	5.3	
Fluorene	86-73-7	ug/l	ND	5.3	
Indeno(1,2,3-cd)pyrene	193-39-5	ug/l	ND	5.3	
Pyrene	129-00-0	ug/l	ND	5.3	
Adjusted Ranges					
C9-C18 Aliphatics		ug/l	ND [A]	110	
C19-C36 Aliphatics		ug/l	ND [A]	110	
C11-C22 Aromatics		ug/l	ND [C]	110	
Surrogate Recoveries				**Acceptance Range**	
1-Chlorooctadecane		%	36 [E]	40-140 %	
o-Terphenyl		%	97	40-140 %	
2-Fluorobiphenyl		%	87	40-140 %	
2-Bromonaphthalene		%	72	40-140 %	

Footnotes

A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

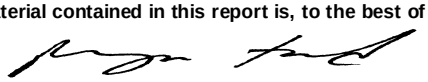
C Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes

E Outside control limits due to possible matrix interference. Confirmed by refractionation.

Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the EPH Method followed? ☑ Yes ☐ No- Details Attatched
Were all performance/acceptance standards for required QA/QC procedures achieved? ☐ Yes ☑ No- Details Attatched
Were any significant modifications made to the EPH method, as specified in Sect. 11.3? ☑ No ☐ Yes- Details Attatched

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

Signature  **Postition** Laboratory Director

Printed Name Reza Tand **Date** 9/30/2009

MADEP VPH FORM

Matrix	**Aqueous**	☑	**Soil**	☐	**Sediment**	☐	**Other**	☐
Containers	**Satisfactory**	☑	**Broken**	☐	**Leaking**	☐		
Aqueous Preservatives	**N/A**	☐	**pH <= 2**	☑	**pH > 2**	☐		
Temperature	**Received on Ice**	☐	**Received at 4 Deg. C**	☐	**Other**	☑	Rec'd at 2.1 deg C	
Methanol	**N/A**							

Method for Ranges: MADEP VPH REV 1.1
Method for Target Analytes: MADEP VPH REV 1.1
VPH Surrogate Standards
PID: 2,5-Dibromotoluene
FID: 2,5-Dibromotoluene

Client ID: MW-11 0909 **Lab ID:** M86013-1
Date Collected: 9/23/2009 **Date Received:** 9/23/2009

Date Extracted:	First Date Run:	Last Date Run:
N/A	9/25/2009	N/A
% Solids:	**Low Dilution:**	**High Dilution:**
N/A	1	N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	ND [A]	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND [A]	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	ND [A]	50	
Target Analytes						
Ethylbenzene	100-41-4	C9-C12	ug/l	ND	2	
Toluene	108-88-3	C5-C8	ug/l	ND	2	
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	ND	1	
Benzene	71-43-2	C5-C8	ug/l	ND	2	
Naphthalene	91-20-3	N/A	ug/l	ND	3	
o-Xylene	95-47-6	C9-C12	ug/l	ND	2	
m,p-Xylene		C9-C12	ug/l	ND	2	
Adjusted Ranges						
C5- C8 Aliphatics		N/A	ug/l	ND [B]	50	
C9- C12 Aliphatics		N/A	ug/l	ND [D]	50	

Surrogate Recoveries		Result	Acceptance Range
FID:2,5-Dibromotoluene	%	88	70-130 %
PID:2,5-Dibromotoluene	%	86	70-130 %

Footnotes

A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

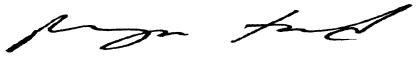
B Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

D Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C9-C12 aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C9-C10 Aromatic Hydrocarbons.

Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the VPH Method followed? ☑ Yes ☐ No- Details Attatched
Were all performance/acceptance standards for required QA/QC procedures achieved? ☑ Yes ☐ No- Details Attatched
Were any significant modifications made to the VPH method, as specified in Sect. 11.3? ☑ No ☐ Yes- Details Attatched

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

Signature  **Postition** Laboratory Director

Printed Name Reza Tand **Date** 9/30/2009

MADEP VPH FORM

Matrix	**Aqueous** ☑	**Soil** ☐	**Sediment** ☐	**Other** ☐			
Containers	**Satisfactory** ☑	**Broken** ☐	**Leaking** ☐				
Aqueous Preservatives	**N/A** ☐	**pH <= 2** ☑	**pH > 2** ☐				
Temperature	**Received on Ice** ☐	**Received at 4 Deg. C** ☐	**Other** ☑	Rec'd at 2.1 deg C			
Methanol	**N/A**						

Method for Ranges: MADEP VPH REV 1.1
Method for Target Analytes: MADEP VPH REV 1.1
VPH Surrogate Standards
PID: 2,5-Dibromotoluene
FID: 2,5-Dibromotoluene

Client ID: MW-10 0909 **Lab ID:** M86013-4
Date Collected: 9/23/2009 **Date Received:** 9/23/2009

Date Extracted:	First Date Run:	Last Date Run:
N/A	9/25/2009	N/A
% Solids:	**Low Dilution:**	**High Dilution:**
N/A	1	N/A

Unadjusted Ranges	CAS #	Elution Range	Units	Result	RDL	Q
C5- C8 Aliphatics (Unadj.)		N/A	ug/l	89.3 [A]	50	
C9- C10 Aromatics (Unadj.)		N/A	ug/l	ND [A]	50	
C9- C12 Aliphatics (Unadj.)		N/A	ug/l	101 [A]	50	
Target Analytes						
Ethylbenzene	100-41-4	C9-C12	ug/l	2	2	
Toluene	108-88-3	C5-C8	ug/l	ND	2	
Methyl Tert Butyl Ether	1634-04-4	C5-C8	ug/l	ND	1	
Benzene	71-43-2	C5-C8	ug/l	ND	2	
Naphthalene	91-20-3	N/A	ug/l	ND	3	
o-Xylene	95-47-6	C9-C12	ug/l	ND	2	
m,p-Xylene		C9-C12	ug/l	ND	2	
Adjusted Ranges						
C5- C8 Aliphatics		N/A	ug/l	89.3 [B]	50	
C9- C12 Aliphatics		N/A	ug/l	56.4 [D]	50	

Surrogate Recoveries			Acceptance Range
FID:2,5-Dibromotoluene	%	87	70-130 %
PID:2,5-Dibromotoluene	%	86	70-130 %

Footnotes

A Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range

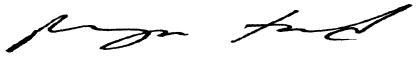
B Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

D Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range. C9-C12 aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C9-C10 Aromatic Hydrocarbons.

Z A 'J' qualifier indicates an estimated value

Were all QA/QC procedures REQUIRED by the VPH Method followed? ☑ Yes ☐ No- Details Attatched
Were all performance/acceptance standards for required QA/QC procedures achieved? ☑ Yes ☐ No- Details Attatched
Were any significant modifications made to the VPH method, as specified in Sect. 11.3? ☑ No ☐ Yes- Details Attatched

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

Signature  **Postition** Laboratory Director

Printed Name Reza Tand **Date** 9/30/2009

Technical Report for

AMEC

GE Watertown MA

778190012

Accutest Job Number: M88040

Sampling Dates: 12/11/09 - 12/14/09

Report to:

AMEC

mike.j.robinson@amec.com

ATTN: Mike Robinson

Total number of pages in report: **38**

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Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (2502) RI (00071) ME (MA0136) FL (E87579) NY (11791) NJ (MA926) NC (653) IL (200018) NAVY USACE

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Sample Summary

AMEC

Job No: M88040

GE Watertown MA
Project No: 778190012

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M88040-1	12/11/09	12:40	HAM	12/14/09	AQ	Ground Water	MW211209
M88040-2	12/11/09	13:45	HAM	12/14/09	AQ	Ground Water	MW221209
M88040-3	12/14/09	11:15	HAM	12/14/09	AQ	Ground Water	MW201209
M88040-4	12/14/09	12:30	HAM	12/14/09	AQ	Ground Water	MW231209
M88040-5	12/14/09	00:00	HAM	12/14/09	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	AMEC	**Job No**	M88040
Site:	GE Watertown MA	**Report Date**	12/18/2009 4:29:12 PM

4 Sample(s), 1 Trip Blank were collected on between 12/11/2009 and 12/14/2009 and were received at Accutest on 12/14/2009 properly preserved, at 1.8 Deg. C and intact. These Samples received an Accutest job number of M88040. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSP1420

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M87881-1MS, M87881-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 2,2-Dichloropropane, Di-Isopropyl ether, Dichlorodifluoromethane, tert-Butyl Ethyl Ether are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for tert-Butyl Ethyl Ether are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 2,2-Dichloropropane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for 1,4-Dioxane, 2,2-Dichloropropane, tert-Amyl Methyl Ether, tert-Butyl Ethyl Ether are outside control limits for sample M87881-1MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- RPD for M87881-1MSD for Acetone: Outside control limits. Blank Spike meets program technical requirements.
- M87881-1MSD for Di-Isopropyl ether, Dichlorodifluoromethane, Naphthalene: Outside control limits. Blank Spike meets program technical requirements.
- M87881-1MS for Di-Isopropyl ether, Dichlorodifluoromethane: Outside control limits. Blank Spike meets program technical requirements.
- Continuing calibration check standard for di-isopropyl ether, Dichlorodifluoromethane, tert-butyl ethyl ether exceed 30% Difference. This check standard met MCP criteria.
- Initial calibration standard in batch MSP1415 for vinyl chloride, naphthalene is employed quadratic regression.
- BSD Recovery(s) for Di-Isopropyl ether, Dichlorodifluoromethane are outside control limits. Blank Spike meets program technical requirements.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M88040).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW211209		
Lab Sample ID:	M88040-1	**Date Sampled:**	12/11/09
Matrix:	AQ - Ground Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P43011.D	1	12/17/09	AMY	n/a	n/a	MSP1420
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	1.3	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	1.7	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.3	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW211209		
Lab Sample ID:	M88040-1	**Date Sampled:**	12/11/09
Matrix:	AQ - Ground Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW211209		
Lab Sample ID:	M88040-1	**Date Sampled:**	12/11/09
Matrix:	AQ - Ground Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA MCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		70-130%
2037-26-5	Toluene-D8	109%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW221209		
Lab Sample ID:	M88040-2	**Date Sampled:**	12/11/09
Matrix:	AQ - Ground Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P43014.D	2	12/17/09	AMY	n/a	n/a	MSP1420
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	10	ug/l	
74-97-5	Bromochloromethane	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
74-83-9	Bromomethane	ND	4.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	10	ug/l	
135-98-8	sec-Butylbenzene	ND	10	ug/l	
98-06-6	tert-Butylbenzene	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	4.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
74-87-3	Chloromethane	ND	4.0	ug/l	
95-49-8	o-Chlorotoluene	ND	10	ug/l	
106-43-4	p-Chlorotoluene	ND	10	ug/l	
108-20-3	Di-Isopropyl ether	ND	4.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	4.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4.0	ug/l	
75-34-3	1,1-Dichloroethane	8.3	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	106	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW221209		
Lab Sample ID:	M88040-2	**Date Sampled:**	12/11/09
Matrix:	AQ - Ground Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	4.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	ug/l	
594-20-7	2,2-Dichloropropane	ND	10	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
123-91-1	1,4-Dioxane	ND	50	ug/l	
60-29-7	Ethyl Ether	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
98-82-8	Isopropylbenzene	ND	10	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	10	ug/l	
74-95-3	Methylene bromide	ND	10	ug/l	
75-09-2	Methylene chloride	ND	4.0	ug/l	
91-20-3	Naphthalene	ND	10	ug/l	
103-65-1	n-Propylbenzene	ND	10	ug/l	
100-42-5	Styrene	ND	10	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	4.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	4.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	419	2.0	ug/l	
109-99-9	Tetrahydrofuran	ND	20	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	43.4	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
79-01-6	Trichloroethene	174	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW221209		
Lab Sample ID:	M88040-2	**Date Sampled:**	12/11/09
Matrix:	AQ - Ground Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA MCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW201209		
Lab Sample ID:	M88040-3	**Date Sampled:**	12/14/09
Matrix:	AQ - Ground Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P43012.D	1	12/17/09	AMY	n/a	n/a	MSP1420
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW201209		
Lab Sample ID:	M88040-3	**Date Sampled:**	12/14/09
Matrix:	AQ - Ground Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW201209		
Lab Sample ID:	M88040-3	**Date Sampled:**	12/14/09
Matrix:	AQ - Ground Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA MCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
2037-26-5	Toluene-D8	109%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW231209		
Lab Sample ID:	M88040-4	**Date Sampled:**	12/14/09
Matrix:	AQ - Ground Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P43013.D	1	12/17/09	AMY	n/a	n/a	MSP1420
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW231209		
Lab Sample ID:	M88040-4	**Date Sampled:**	12/14/09
Matrix:	AQ - Ground Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	11.6	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW231209		
Lab Sample ID:	M88040-4	**Date Sampled:**	12/14/09
Matrix:	AQ - Ground Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA MCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	M88040-5	**Date Sampled:**	12/14/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P43010.D	1	12/17/09	AMY	n/a	n/a	MSP1420
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	M88040-5	**Date Sampled:**	12/14/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	M88040-5	**Date Sampled:**	12/14/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/14/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	GE Watertown MA		

VOA MCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		70-130%
2037-26-5	Toluene-D8	107%		70-130%
460-00-4	4-Bromofluorobenzene	121%		70-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle

ACCUTEST Laboratories

CHAIN OF CUSTODY

495 Tech Center West, Bldg. 1
Marlboro, MA 01752
508-481-6200 FAX: 508-481-6200

Accutest Job #: M88040

Client Information | **Facility Information**

EXXONMOBIL CORPORATION - Regional Laboratory Program Northeast

Consultants Company Name: AMEC	Project Name: GE Watertown
Address: 2 Robbins Rd	Street: 105 Grove St
City: Westford State: MA Zip: 01886	City: Watertown State: MA
Project Contact: Mike Robinson	ExxonMobil Contact:
Sampler's Name: Heather Moore	ExxonMobil Contact Phone #:
Phone #: 9781692 9090 Ext. Fax #:	Location ID# WBS#
AFE #:	PO# Line#

Analytical Information

BTEX 8260 ☐ 624 ☐ 8021 ☐ 524 ☐ MTBE ☐
TBA ☐ Naphthalene ☐ Oxygenates ☐

VOC AQUEOUS 8260 ☐ 624 ☐ STD ☐ TCL ☐
PPL ☐ MTBE ☐ TBA ☐ Oxygenates ☐

VOC SOIL 8260 ☐ STD ☐ TCL ☐ PPL ☐ MTBE ☐
TBA ☐ Oxygenates ☐ 5035/LOW ☐ 5035MED ☐

VPH RANGES ☐ TARGETS ☐

EPH RANGES ☐ TARGET (PAH) ☐ DIESEL (PAH) ☐

TPH-CTDEP ☐ TPH418.1 ☐

TPH-MAINE GRO ☐ DRO ☐

TPH-8015 GRO ☐ TPH-8015 DRO ☐

METALS TOTAL ☐ DISSOLVED ☐ HM8 ☐ HM5 ☐

METALS TCLP ☐ SPLP ☐ HM8 ☐ HM5 ☐

Accutest Sample #	Field ID / Point of Collection	Collection: Date	Time	Sampled by	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	MEOH	Encore	Other	None	BTEX	VOC AQUEOUS	VOC SOIL	VPH	EPH	TPH-CTDEP	TPH-MAINE GRO	TPH-8015 GRO	METALS TOTAL	METALS TCLP
-1	MW21209	12/14/09	1240	HAM	GW	2	X									X								
-2	MW22 1209	↓	1345	↓	↓	2	X									X								
-3	MW20 1209	12/14/09	1115			2	X									X								
-4	MW23 1209	↓	1230	↓	↓	2	X									X								
-5	TripBlank					1	X									X								

Turnaround Time (Business days)

- ☒ Std. 10 Business Days — Approved By:/Date
- ☐ 8 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day EMERGENCY

Emergency T/A is for FAX or Lablink Data

Data Deliverable Information

- ☒ Commercial "A"
- ☐ Commercial "B"
- ☐ Full Deliverables
- ☐ Other
- ☐ FULL CLP
- ☐ State Forms
- ☐ Disk Deliverable Format _____

Site Specific: QC Yes ☐ No ☐ If yes, indicate QC sample in Comments and submit triplicate volume.

Comments / Remarks: 1A3

Sample Custody must be documented below each time samples change possession, including courier delivery.

1 Relinquished by Sampler: Heather Moore	Date/Time: 12/14/09 1535	1 Received by:	2 Relinquished by:	Date Time: 12/14/09 1625	2 Received by:
3 Relinquished by:	Date Time:	3 Received by:	4 Relinquished by:	Date Time:	4 Received by:
5 Relinquished by:	Date Time:	5 Received by:	Seal #	Preserved where applicable ☐	On Ice ☐ Temp 1.8c

M88040: Chain of Custody
Page 1 of 1

Title: MADEP MCP Response Action Analytical Report Certification Form

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Accutest Laboratories of New England	Project #:	M88040
Project Location:	GE Watertown MA	MADEP RTN [1]	None

This form provides certifications for the following data set:
M88040-1,M88040-2,M88040-3,M88040-4,M88040-5

Sample Matrices: Groundwater X Soil/Sediment ( ) Drinking Water ( ) other ( ) ( )

MCP SW-846	8260B (X)	8151A ( )	8330 ( )	6010B	( )	7470A/1A ( )
Methods Used	8270C ( )	8081A ( )	VPH ( )	6020	( )	9014M [2] ( )
As specified in MADEP Compendium of Analytical Methods. (Check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S [3]	( )	7196A ( )

1 List Release Tracking Number (RTN), if known
2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S - SW-846 Methods 7000 Series List Individual method and analyte

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status

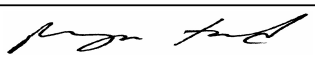
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	☑	Yes	☐ No [1]
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	☑	Yes	☐ No [1]
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑	Yes	☐ No [1]
D	**VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	☑	Yes	☐ No [1]

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	☐ **Refer to Narrative**	Yes	☑ No [1]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☑ **Refer to Narrative**	Yes	☐ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

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

Signature:  **Position:** **Laboratory Director**

Printed Name: **Reza Tand** **Date:** **12/18/2009**

Internal Sample Tracking Chronicle

AMEC

Job No: M88040

GE Watertown MA
Project No: 778190012

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M88040-1 MW211209	Collected: 11-DEC-09 12:40 By: HAM		Received: 14-DEC-09 By: JB			
M88040-1	SW846 8260B	17-DEC-09 16:15	AMY			V8260MCP
M88040-2 MW221209	Collected: 11-DEC-09 13:45 By: HAM		Received: 14-DEC-09 By: JB			
M88040-2	SW846 8260B	17-DEC-09 17:37	AMY			V8260MCP
M88040-3 MW201209	Collected: 14-DEC-09 11:15 By: HAM		Received: 14-DEC-09 By: JB			
M88040-3	SW846 8260B	17-DEC-09 16:42	AMY			V8260MCP
M88040-4 MW231209	Collected: 14-DEC-09 12:30 By: HAM		Received: 14-DEC-09 By: JB			
M88040-4	SW846 8260B	17-DEC-09 17:08	AMY			V8260MCP
M88040-5 TRIP BLANK	Collected: 14-DEC-09 00:00 By: HAM		Received: 14-DEC-09 By: JB			
M88040-5	SW846 8260B	17-DEC-09 15:48	AMY			V8260MCP

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP1420-MB	P43008.D	1	12/17/09	AMY	n/a	n/a	MSP1420

The QC reported here applies to the following samples: **Method:** SW846 8260B

M88040-1, M88040-2, M88040-3, M88040-4, M88040-5

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	

Method Blank Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP1420-MB	P43008.D	1	12/17/09	AMY	n/a	n/a	MSP1420

The QC reported here applies to the following samples: **Method:** SW846 8260B

M88040-1, M88040-2, M88040-3, M88040-4, M88040-5

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP1420-MB	P43008.D	1	12/17/09	AMY	n/a	n/a	MSP1420

The QC reported here applies to the following samples: **Method:** SW846 8260B

M88040-1, M88040-2, M88040-3, M88040-4, M88040-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	116%	70-130%
2037-26-5	Toluene-D8	107%	70-130%
460-00-4	4-Bromofluorobenzene	113%	70-130%

Method Blank Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP1420-MB1	P43033.D	1	12/18/09	AMY	n/a	n/a	MSP1420

The QC reported here applies to the following samples: **Method:** SW846 8260B

M87881-1MS, M87881-1MSD

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	

Method Blank Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP1420-MB1	P43033.D	1	12/18/09	AMY	n/a	n/a	MSP1420

The QC reported here applies to the following samples: **Method:** SW846 8260B

M87881-1MS, M87881-1MSD

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP1420-MB1	P43033.D	1	12/18/09	AMY	n/a	n/a	MSP1420

The QC reported here applies to the following samples: **Method:** SW846 8260B

M87881-1MS, M87881-1MSD

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	118%	70-130%
2037-26-5	Toluene-D8	109%	70-130%
460-00-4	4-Bromofluorobenzene	114%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP1420-BS	P43005.D	1	12/17/09	AMY	n/a	n/a	MSP1420
MSP1420-BSD	P43006.D	1	12/17/09	AMY	n/a	n/a	MSP1420

The QC reported here applies to the following samples: **Method:** SW846 8260B

M88040-1, M88040-2, M88040-3, M88040-4, M88040-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	53.2	106	44.1	88	19	70-130/25
71-43-2	Benzene	50	55.1	110	54.2	108	2	70-130/25
108-86-1	Bromobenzene	50	50.4	101	50.4	101	0	70-130/25
74-97-5	Bromochloromethane	50	53.3	107	54.2	108	2	70-130/25
75-27-4	Bromodichloromethane	50	52.3	105	49.4	99	6	70-130/25
75-25-2	Bromoform	50	43.4	87	43.5	87	0	70-130/25
74-83-9	Bromomethane	50	49.3	99	47.9	96	3	70-130/25
78-93-3	2-Butanone (MEK)	50	48.7	97	50.9	102	4	70-130/25
104-51-8	n-Butylbenzene	50	48.6	97	47.8	96	2	70-130/25
135-98-8	sec-Butylbenzene	50	51.4	103	51.0	102	1	70-130/25
98-06-6	tert-Butylbenzene	50	49.5	99	49.3	99	0	70-130/25
75-15-0	Carbon disulfide	50	51.8	104	50.1	100	3	70-130/25
56-23-5	Carbon tetrachloride	50	51.7	103	49.7	99	4	70-130/25
108-90-7	Chlorobenzene	50	48.1	96	47.9	96	0	70-130/25
75-00-3	Chloroethane	50	48.0	96	46.9	94	2	70-130/25
67-66-3	Chloroform	50	57.6	115	56.4	113	2	70-130/25
74-87-3	Chloromethane	50	38.5	77	41.3	83	7	70-130/25
95-49-8	o-Chlorotoluene	50	54.9	110	54.4	109	1	70-130/25
106-43-4	p-Chlorotoluene	50	54.2	108	53.8	108	1	70-130/25
108-20-3	Di-Isopropyl ether	50	66.5	133* [a]	65.4	131* [a]	2	70-130/25
96-12-8	1,2-Dibromo-3-chloropropane	50	46.4	93	45.6	91	2	70-130/25
124-48-1	Dibromochloromethane	50	49.3	99	49.0	98	1	70-130/25
106-93-4	1,2-Dibromoethane	50	48.1	96	48.7	97	1	70-130/25
95-50-1	1,2-Dichlorobenzene	50	48.8	98	49.5	99	1	70-130/25
541-73-1	1,3-Dichlorobenzene	50	50.3	101	50.7	101	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	48.0	96	48.1	96	0	70-130/25
75-71-8	Dichlorodifluoromethane	50	25.4	51* [a]	24.5	49* [a]	4	70-130/25
75-34-3	1,1-Dichloroethane	50	55.9	112	55.6	111	1	70-130/25
107-06-2	1,2-Dichloroethane	50	54.8	110	54.0	108	1	70-130/25
75-35-4	1,1-Dichloroethene	50	51.6	103	50.6	101	2	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	56.4	113	55.3	111	2	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	53.2	106	51.8	104	3	70-130/25
78-87-5	1,2-Dichloropropane	50	56.3	113	54.8	110	3	70-130/25
142-28-9	1,3-Dichloropropane	50	51.8	104	51.7	103	0	70-130/25
594-20-7	2,2-Dichloropropane	50	69.0	138* [a]	60.8	122	13	70-130/25
563-58-6	1,1-Dichloropropene	50	56.1	112	54.1	108	4	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP1420-BS	P43005.D	1	12/17/09	AMY	n/a	n/a	MSP1420
MSP1420-BSD	P43006.D	1	12/17/09	AMY	n/a	n/a	MSP1420

The QC reported here applies to the following samples: **Method:** SW846 8260B

M88040-1, M88040-2, M88040-3, M88040-4, M88040-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	50	52.1	104	50.5	101	3	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	55.3	111	53.7	107	3	70-130/25
123-91-1	1,4-Dioxane	250	247	99	207	83	18	70-130/25
60-29-7	Ethyl Ether	50	59.2	118	59.2	118	0	70-130/25
100-41-4	Ethylbenzene	50	54.1	108	53.0	106	2	70-130/25
87-68-3	Hexachlorobutadiene	50	47.1	94	46.9	94	0	70-130/25
591-78-6	2-Hexanone	50	44.4	89	44.2	88	0	70-130/25
98-82-8	Isopropylbenzene	50	59.7	119	59.4	119	1	70-130/25
99-87-6	p-Isopropyltoluene	50	53.7	107	53.0	106	1	70-130/25
1634-04-4	Methyl Tert Butyl Ether	50	60.0	120	58.4	117	3	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	47.6	95	47.6	95	0	70-130/25
74-95-3	Methylene bromide	50	53.1	106	52.9	106	0	70-130/25
75-09-2	Methylene chloride	50	50.7	101	50.3	101	1	70-130/25
91-20-3	Naphthalene	50	38.1	76	37.6	75	1	70-130/25
103-65-1	n-Propylbenzene	50	53.3	107	52.3	105	2	70-130/25
100-42-5	Styrene	50	48.2	96	48.0	96	0	70-130/25
994-05-8	tert-Amyl Methyl Ether	50	57.7	115	56.9	114	1	70-130/25
637-92-3	tert-Butyl Ethyl Ether	50	66.4	133* [a]	62.6	125	6	70-130/25
630-20-6	1,1,1,2-Tetrachloroethane	50	49.8	100	49.5	99	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	49.3	99	50.3	101	2	70-130/25
127-18-4	Tetrachloroethene	50	48.7	97	47.4	95	3	70-130/25
109-99-9	Tetrahydrofuran	50	49.4	99	47.8	96	3	70-130/25
108-88-3	Toluene	50	58.2	116	57.3	115	2	70-130/25
87-61-6	1,2,3-Trichlorobenzene	50	43.3	87	43.5	87	0	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	44.4	89	44.1	88	1	70-130/25
71-55-6	1,1,1-Trichloroethane	50	56.3	113	54.2	108	4	70-130/25
79-00-5	1,1,2-Trichloroethane	50	53.8	108	53.8	108	0	70-130/25
79-01-6	Trichloroethene	50	53.1	106	51.8	104	2	70-130/25
75-69-4	Trichlorofluoromethane	50	45.5	91	43.7	87	4	70-130/25
96-18-4	1,2,3-Trichloropropane	50	45.6	91	45.6	91	0	70-130/25
95-63-6	1,2,4-Trimethylbenzene	50	52.1	104	51.8	104	1	70-130/25
108-67-8	1,3,5-Trimethylbenzene	50	51.7	103	51.1	102	1	70-130/25
75-01-4	Vinyl chloride	50	56.0	112	53.8	108	4	70-130/25
	m,p-Xylene	100	98.1	98	96.6	97	2	70-130/25
95-47-6	o-Xylene	50	49.5	99	49.0	98	1	70-130/25
1330-20-7	Xylene (total)	150	148	99	146	97	1	70-130/25

Blank Spike/Blank Spike Duplicate Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSP1420-BS	P43005.D	1	12/17/09	AMY	n/a	n/a	MSP1420
MSP1420-BSD	P43006.D	1	12/17/09	AMY	n/a	n/a	MSP1420

The QC reported here applies to the following samples: **Method:** SW846 8260B

M88040-1, M88040-2, M88040-3, M88040-4, M88040-5

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	109%	108%	70-130%
2037-26-5	Toluene-D8	110%	109%	70-130%
460-00-4	4-Bromofluorobenzene	109%	110%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M87881-1MS	P43036.D	5	12/18/09	AMY	n/a	n/a	MSP1420
M87881-1MSD	P43037.D	5	12/18/09	AMY	n/a	n/a	MSP1420
M87881-1	P43009.D	1	12/17/09	AMY	n/a	n/a	MSP1420

The QC reported here applies to the following samples: **Method:** SW846 8260B

M88040-1, M88040-2, M88040-3, M88040-4, M88040-5

CAS No.	Compound	M87881-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	215	86	313	125	37* [a]	70-130/30
71-43-2	Benzene	ND		250	278	111	270	108	3	70-130/30
108-86-1	Bromobenzene	ND		250	249	100	251	100	1	70-130/30
74-97-5	Bromochloromethane	ND		250	264	106	275	110	4	70-130/30
75-27-4	Bromodichloromethane	ND		250	260	104	258	103	1	70-130/30
75-25-2	Bromoform	ND		250	219	88	215	86	2	70-130/30
74-83-9	Bromomethane	ND		250	201	80	213	85	6	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	258	103	257	103	0	70-130/30
104-51-8	n-Butylbenzene	ND		250	218	87	221	88	1	70-130/30
135-98-8	sec-Butylbenzene	ND		250	244	98	244	98	0	70-130/30
98-06-6	tert-Butylbenzene	ND		250	238	95	236	94	1	70-130/30
75-15-0	Carbon disulfide	ND		250	259	104	250	100	4	70-130/30
56-23-5	Carbon tetrachloride	ND		250	260	104	250	100	4	70-130/30
108-90-7	Chlorobenzene	ND		250	238	95	235	94	1	70-130/30
75-00-3	Chloroethane	ND		250	253	101	236	94	7	70-130/30
67-66-3	Chloroform	ND		250	297	119	285	114	4	70-130/30
74-87-3	Chloromethane	ND		250	221	88	241	96	9	70-130/30
95-49-8	o-Chlorotoluene	ND		250	271	108	266	106	2	70-130/30
106-43-4	p-Chlorotoluene	ND		250	265	106	261	104	2	70-130/30
108-20-3	Di-Isopropyl ether	ND		250	339	136* [a]	331	132* [a]	2	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	232	93	233	93	0	70-130/30
124-48-1	Dibromochloromethane	ND		250	245	98	246	98	0	70-130/30
106-93-4	1,2-Dibromoethane	ND		250	245	98	237	95	3	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	243	97	242	97	0	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	246	98	243	97	1	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	236	94	235	94	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	138	55* [a]	128	51* [a]	8	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	290	116	279	112	4	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	274	110	269	108	2	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	260	104	263	105	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	285	114	269	108	6	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	262	105	257	103	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	285	114	277	111	3	70-130/30
142-28-9	1,3-Dichloropropane	ND		250	259	104	255	102	2	70-130/30
594-20-7	2,2-Dichloropropane	ND		250	274	110	171	68* [b]	46* [c]	70-130/30
563-58-6	1,1-Dichloropropene	ND		250	278	111	273	109	2	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M87881-1MS	P43036.D	5	12/18/09	AMY	n/a	n/a	MSP1420
M87881-1MSD	P43037.D	5	12/18/09	AMY	n/a	n/a	MSP1420
M87881-1	P43009.D	1	12/17/09	AMY	n/a	n/a	MSP1420

The QC reported here applies to the following samples: **Method:** SW846 8260B

M88040-1, M88040-2, M88040-3, M88040-4, M88040-5

CAS No.	Compound	M87881-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		250	241	96	227	91	6	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	256	102	224	90	13	70-130/30
123-91-1	1,4-Dioxane	ND		1250	913	73	1300	104	35* [c]	70-130/30
60-29-7	Ethyl Ether	ND		250	294	118	295	118	0	70-130/30
100-41-4	Ethylbenzene	ND		250	270	108	262	105	3	70-130/30
87-68-3	Hexachlorobutadiene	ND		250	209	84	214	86	2	70-130/30
591-78-6	2-Hexanone	ND		250	212	85	192	77	10	70-130/30
98-82-8	Isopropylbenzene	ND		250	295	118	291	116	1	70-130/30
99-87-6	p-Isopropyltoluene	ND		250	251	100	252	101	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	301	120	266	106	12	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	235	94	231	92	2	70-130/30
74-95-3	Methylene bromide	ND		250	270	108	264	106	2	70-130/30
75-09-2	Methylene chloride	ND		250	260	104	251	100	4	70-130/30
91-20-3	Naphthalene	ND		250	175	70	152	61* [a]	14	70-130/30
103-65-1	n-Propylbenzene	ND		250	257	103	252	101	2	70-130/30
100-42-5	Styrene	ND		250	235	94	233	93	1	70-130/30
994-05-8	tert-Amyl Methyl Ether	ND		250	296	118	206	82	36* [c]	70-130/30
637-92-3	tert-Butyl Ethyl Ether	ND		250	348	139* [b]	235	94	39* [c]	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	245	98	246	98	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	256	102	251	100	2	70-130/30
127-18-4	Tetrachloroethene	ND		250	234	94	228	91	3	70-130/30
109-99-9	Tetrahydrofuran	ND		250	244	98	233	93	5	70-130/30
108-88-3	Toluene	ND		250	289	116	283	113	2	70-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		250	198	79	206	82	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	202	81	208	83	3	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		250	289	116	277	111	4	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	270	108	267	107	1	70-130/30
79-01-6	Trichloroethene	ND		250	266	106	268	107	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	235	94	226	90	4	70-130/30
96-18-4	1,2,3-Trichloropropane	ND		250	221	88	214	86	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		250	261	104	253	101	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		250	251	100	248	99	1	70-130/30
75-01-4	Vinyl chloride	ND		250	301	120	282	113	7	70-130/30
	m,p-Xylene	ND		500	488	98	475	95	3	70-130/30
95-47-6	o-Xylene	ND		250	245	98	240	96	2	70-130/30
1330-20-7	Xylene (total)	ND		750	732	98	715	95	2	70-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M87881-1MS	P43036.D	5	12/18/09	AMY	n/a	n/a	MSP1420
M87881-1MSD	P43037.D	5	12/18/09	AMY	n/a	n/a	MSP1420
M87881-1	P43009.D	1	12/17/09	AMY	n/a	n/a	MSP1420

The QC reported here applies to the following samples: **Method:** SW846 8260B

M88040-1, M88040-2, M88040-3, M88040-4, M88040-5

CAS No.	Surrogate Recoveries	MS	MSD	M87881-1	Limits
1868-53-7	Dibromofluoromethane	112%	110%	116%	70-130%
2037-26-5	Toluene-D8	108%	108%	110%	70-130%
460-00-4	4-Bromofluorobenzene	110%	110%	116%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.
(b) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(c) High RPD due to possible matrix interference and/or sample non-homogeneity.

Volatile Surrogate Recovery Summary

Job Number: M88040
Account: AMECMAW AMEC
Project: GE Watertown MA

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M88040-1	P43011.D	121.0	109.0	112.0
M88040-2	P43014.D	122.0	111.0	112.0
M88040-3	P43012.D	123.0	109.0	112.0
M88040-4	P43013.D	120.0	111.0	111.0
M88040-5	P43010.D	120.0	107.0	121.0
M87881-1MS	P43036.D	112.0	108.0	110.0
M87881-1MSD	P43037.D	110.0	108.0	110.0
MSP1420-BS	P43005.D	109.0	110.0	109.0
MSP1420-BSD	P43006.D	108.0	109.0	110.0
MSP1420-MB	P43008.D	116.0	107.0	113.0
MSP1420-MB1	P43033.D	118.0	109.0	114.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%