UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

CERTIFIED MAIL

December 28, 2010

Brian White,
Senior Scientist
Envirobusiness, Inc.
21 B Street
Burlington, MA 01803

Re: Authorization to discharge under the Remediation General Permit (RGP) – 910000. Former Textile site located at 120 Tremont Street, Everett, MA 02149, Middlesex County, Authorization # MAG910417 - Reissuance

Dear Mr. White:

Based on the review of your Notice of Intent (NOI) submitted on behalf of your clients Frank and Jacqueline Demarco for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The checklist enclosed with this RGP authorization indicates the pollutants for which you are required to monitor. Also, indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. This list does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of this permit, including influent and effluent monitoring, narrative water quality standards, record keeping, and reporting requirements, found in Parts I and II, and Appendices I – VIII of the RGP. See EPA's website for the complete RGP and other information at: http://www.epa.gov/region1/npdes/mass.html#dgp.

Also, please note that the metals antimony, copper, lead, nickel, selenium, silver, zinc and iron included on the list are dilution dependent pollutants and subject to limitations based on a Dilution Factor Range (DFR). For each parameter the dilution factor of 20.26 for this site is within the allowable DFR established in the RGP. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the limits for antimony of 60 ug/L, copper of 52 ug/L, lead of 13ug/L, nickel of 290ug/L, selenium of 50ug/L, silver of 12ug/L, zinc of 666ug/L and iron of 5,000 ug/L, are required to achieve permit compliance at your site.

Finally, please note the list of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. Recertification's can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP regulations.

This general permit and authorization to discharge will expire on September 9, 2015. This project reportedly will terminate on December 31, 2011. If for any reason the discharge terminates sooner you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

Thank you in advance for your cooperation in this matter. Please contact Victor Alvarez at 617-918-1572 or Alvarez.Victor@epa.gov, if you have any questions.

Sincerely,

David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP

2010 Remediation General Permit
Summary of Monitoring Parameters[11]

NPDES Permit Number:	**MAG910417- REISSUANCE**
Date Permit Issued:	December, 2010
Facility/Site Name:	Former Textile Site
Facility/Site Address:	120 Tremont St., Everett, MA 02149, Middlesex County
	Email address of owner;fldmjr@comcast.net; Phone n:617-835-0715
Legal Name of operator:	Envirobusiness, Inc.
Operator contact name, title, and Address:	Brian White, Senior Scientist 21B Street, Burlington, MA 01803
	Email bhwhite@ebiconsulting.com
Estimated Date of Completion:	December 31, 2011
Category and Sub-Category:	Category I, Sub-Category B
Receiving Water:	Malden River

Monitoring & Limits are applicable if checked. All samples are to be collected as grab samples

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
√	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/l) **, 50 mg/l for hydrostatic testing **, Me#60.2/5mL
	2. Total Residual Chlorine (TRC) [1]	Freshwater = 11 ug/l ** Saltwater = 7.5 ug/l **/ Me#330.5/ML 20ug/L
√	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/l/ Me# 1664A/5.0mg/LmL
	4. Cyanide (CN) [2, 3]	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/l **/ Me#335.4/ML 5ug/L
√	5. Benzene (B)	5ug/L /50.0 ug/l for hydrostatic testing only/ Me#8260C/ML 2 ug/L
	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
V	7. Ethylbenzene (E)	(limited as ug/L total BTEX))/ Me#8260C/ ML 2ug/L
V	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX))/ Me#8260C/ ML 2ug/L
V	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) [4]	100 ug/l)/ Me#8260C/ ML 2ug/L
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l /Me#8260C/ ML 10ug/L

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only (ug/L)/ Me#8260C/ ML 10ug/L
√	13. tert-Amyl Methyl Ether (TAME)	Monitor Only (ug/L) /Me#8260C/ ML 10ug/L
	14. Naphthalene [5]	20 ug/l /Me#8260C/ ML 2ug/L
√	15. Carbon Tetrachloride	4.4 ug/l /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/l /Me#8260C/ ML 5ug/L
√	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/l /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/l /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/l - NH only /Me#8260C/ ML5ug/L
	19. 1,1 Dichloroethane (DCA)	70 ug/l /Me#8260C/ ML 5ug/L
√	20. 1,2 Dichloroethane (DCA)	5.0 ug/l /Me#8260C/ ML 5ug/L
V	21. 1,1 Dichloroethene (DCE)	3.2 ug/l/Me#8260C/ ML 5ug/L
	22. cis-1,2 Dichloroethene (DCE)	70 ug/l /Me#8260C/ ML 5ug/L
	23. Methylene Chloride	4.6 ug/l/Me#8260C/ ML 5ug/L
√	24. Tetrachloroethene (PCE)	5.0 ug/l /Me#8260C/ ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/l/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/l /Me#8260C/ ML 5ug/L
	27. Trichloroethene (TCE)	5.0 ug/l /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/l /Me#8260C/ ML 5ug/L
√	29. Acetone	Monitor Only (ug/L) /Me#8260C/ ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML50 ug/L
	31. Total Phenols	300 ug/l Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML50 ug/L
√	32. Pentachlorophenol (PCP)	1.0 ug/l /Me#8270D/ML5ug/L,Me#604 &625/ML10ug/L
	33. Total Phthalates (Phthalate esters) [6]	3.0 ug/L ** /Me#8270D/ML5ug/L,Me#606/ML10ug/L& Me#625/ML5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/l /Me#8270D/ML5ug/L,Me#606/ML10ug/L& Me#625/ML5ug/L
√	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/l
√	a. Benzo(a) Anthracene [7]	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
√	b. Benzo(a) Pyrene [7]	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
√	c. Benzo(b)Fluoranthene [7]	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
√	d. Benzo(k)Fluoranthene [7]	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
√	e. Chrysene [7]	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
√	f. Dibenzo(a,h)anthracene [7]	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
	g. Indeno(1,2,3-cd) Pyrene [7]	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/l
	h. Acenaphthene	X/Me#8270D/ML5ug/L,Me#610/ML5ug /L & Me#625/ML5ug/L
	i. Acenaphthylene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	j. Anthracene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	l. Fluoranthene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
√	m. Fluorene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	n. Naphthalene [5]	20 ug/l / Me#8270D/ ML5ug/L, Me#610/ML5ug/L & Me#625/ML5ug/L
	o. Phenanthrene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) [8, 9]	0.000064 ug/L / Me# 608/ ML 0.5 ug/L
√	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11]			
		Freshwater	Saltwater		
√	39. Antimony	60/10mL			
	40. Arsenic **	10/20mL	36/20mL		
	41. Cadmium **	0.2/10ml	8.9/10mL		
	42. Chromium III (trivalent) **	48.8/15mL	100/15mL		

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11]			
		Freshwater	Saltwater		
	43. Chromium VI (hexavalent) **	11.4/10mL	50.3/10mL		
√	44. Copper **	52/15mL	3.7/15mL		
√	45. Lead **	13/20mL	8.5/20mL		
	46. Mercury **	0.9/0.2mL	1.1/0.2mL		
√	47. Nickel **	290/20mL	8.2/20mL		
√	48. Selenium **	50/20mL	71/20mL		
√	49. Silver	12/10mL	2.2/10mL		
√	50. Zinc **	666/15mL	85.6/15mL		
√	51. Iron	5,000/20mL			

	Other Parameters	Limit
√	52. Instantaneous Flow	Site specific in CFS
√	53. Total Flow	Site specific in CFS
√	54. pH Range for Class A & Class B Waters in MA	6.5-8.3; 1/Month/Grab[13]
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab[13]
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab[13]
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab[14]
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab[14]
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab[14]
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab[14]
	61. Maximum Change in Temperature in MA – Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab[14]
	62. Maximum Change in Temperature in MA – Any Class SA water body - Coastal	1.5°F; 1/Month/Grab[14]
	63. Maximum Change in Temperature in MA – Any Class SB water body - July to September	1.5°F; 1/Month/Grab[14]
	64. Maximum Change in Temperature in MA – Any Class SB water body - October to June	4°F; 1/Month/Grab[14]

Footnotes:

[1] Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).
[2] Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.
[3] Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).
[4] BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.
[5] Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.
[6] The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[7] Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
[8] In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[9]Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).
[10] Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.
[11] For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using DF x 1,000ug/L (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =1,000 x 2 =2,000 ug/L., etc. not to exceed the DF=5.
[12] Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).

[13] pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.

[14] Temperature sampling per Method 170.1

EBI CONSULTING
www.ebiconsulting.com

21 B Street
Burlington, MA 01803
Tel: (781) 273.2500
Fax: (781) 273.3311

Reissued NOI Nov. 3, 2010

November 17, 2010

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

MAG 910417 Reapp.

Subject: Re-Application of NPDES Notice of Intent (NOI) under the Remediation General Permit (RGP)
For Discharge from Proposed Groundwater Pumping and Treatment System
120 Tremont Street, Everett, Massachusetts
MADEP Release Tracking Number 3-10153

To Whom It May Concern:

EnviroBusiness Inc. (DBA EBI Consulting or EBI) submits this NPDES Notice of Intent (NOI) Re-Application under the Remediation General Permit (RGP) on behalf of our clients Frank and Jacquelyn DeMarco. The NOI was originally approved in May 2009 under NPDES Permit Number MAG910417. No changes to the system have been made since the 2009 submittal and the portion of the system requiring the permit has not yet been activated. Therefore, no discharges have occurred to date.

This NOI is for the proposed discharge from a groundwater pumping and treatment system at 120 Tremont Street in Everett, Massachusetts to an onsite stormwater catchbasin, to the municipal storm water sewer ultimately discharging into the Malden River. This groundwater remediation is being performed under 310 CMR 40.000, "The Massachusetts Contingency Plan" or MCP. It is our hope to commence discharge during 2011.

Attached to this document please find the completed "Suggested Form for Notice of Intent (NOI) for the Remediation General Permit along with the following attachments:

1. Line Drawing of System (Figure 5 Remedial Design Schematic)
2. NPDES NOI Dilution Calculation
3. USGS Topographic Map showing limits of Drainage Basin
4. Detailed Map of Receiving Water
5. Site Plan showing locations of storm sewer and sanitary sewer in proximity to the Site
6. USGS Topographic Map
7. Massachusetts GIS Map
8. NPDES NOI Mass Calculation
9. Analytical data sheets
10. Letter from Division of Fisheries and Wildlife
11. Letter from Massachusetts Historical Commission

If you have any questions or require additional information pertaining to this submittal, please contact the undersigned at 617-715-1834 or by email at bwhite@ebiconsulting.com.

Sincerely,
EBI CONSULTING

Brian White
Senior Scientist

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

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

a) Name of **facility/site**: Former Textile Site		**Facility/site** mailing address:		
Location of **facility/site**: longitude: 71.066667 latitude: 42.411666	Facility SIC code(s): 4226	Street: 120 Tremont St		
b) Name of **facility/site owner:**		Town: Everett		
Email address of facility/site owner: fldmjr@comcast.net		State: MA	Zip: 02149	County: Middlesex
Telephone no. of facility/site **owner**: 617-835-0715				
Fax no. of facility/site **owner**: 617-389-5551		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ○ 3. Private ◉ 4. Other ○ if so, describe:		
Address of **owner** (if different from site):				
Street: 3 Seal Harbor, Apt. 836				
Town: Winthrop	State: MA	Zip: 02152	County: Suffolk	
c) Legal name of **operator**: Envirobusiness, Inc.		**Operator** telephone no: 617-715-1834		
		Operator fax no.: 617-715-6534	**Operator** email: bwhite@ebiconsulting.com	
Operator contact name and title: Brian White, Senior Scientist				
Address of **operator** (if different from owner):	Street: 21 B Street			
Town: Burlington	State: MA	Zip: 01803	County: Middlesex	

d) Check Y for "yes" or N for "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Y ◉ N ○, if Y, number: MAG910417
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge?
Y ◉ N ○, if Y, date and tracking #:
3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Y ○ N ◉
4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y ○ N ◉

e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y ◉ N ○
If Y, please list:
1. site identification # assigned by the state of NH or MA: 3-10153
2. permit or license # assigned: NA
3. state agency contact information: name, location, and telephone number:
John Zupkus, MADEP, NERO 978-694-3387

f) Is the site/facility covered by any other EPA permit, including:
1. Multi-Sector General Permit? Y ○ N ◉, if Y, number:
2. Final Dewatering General Permit? Y ○ N ◉, if Y, number:
3. EPA Construction General Permit? Y ○ N ◉, if Y, number:
4. Individual NPDES permit? Y ◉ N ○, if Y, number:
5. any other water quality related individual or general permit? Y ○ N ◉, if Y, number:

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

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

Activity Category	**Activity Sub-Category**
I - Petroleum Related Site Remediation	A. Gasoline Only Sites ☐ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ☒ C. Petroleum Sites with Additional Contamination ☐
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites ☐ B. VOC Sites with Additional Contamination ☐ C. Primarily Heavy Metal Sites ☐
III - Contaminated Construction Dewatering	A. General Urban Fill Sites ☐ B. Known Contaminated Sites ☐

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

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

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

Remediation of No. 2 fuel oil contaminated groundwater, recovery well pumping to bag filter, to two GAC units in series to discharge to onsite catchbasin to municipal storm sewer to eventual discharge to Malden River

b) Provide the following information about each discharge:

1) Number of discharge points: 1

2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)?
Max. flow 0.0446 Is maximum flow a **design value**? Y ○ N ◉
Average flow (include units) 0.0223 Is average flow a design value or estimate? estimate

3) Latitude and longitude of each discharge within 100 feet:

pt.1: lat	42.412	long	71.072	pt.2: lat.		long.	;
pt.3: lat		long		pt.4: lat.		long.	;
pt.5: lat		long		pt.6: lat.		long.	;
pt.7: lat		long		pt.8: lat.		long.	; etc.

4) If hydrostatic testing, total volume of the discharge (gals): NA

5) Is the discharge intermittent ◉ or seasonal ○ ?
Is discharge ongoing? Y ○ N ◉

c) Expected dates of discharge (mm/dd/yy): start 01/01/2011 end 12/31/2011

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.

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

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids (TSS)		☐	☒	1	grab	SM-2540D	2,000	89,000	9,716		
2. Total Residual Chlorine (TRC)		☒	☐	1	grab	SM-4500 Cl G	100	0	0		
3. Total Petroleum Hydrocarbons (TPH)		☐	☒	1	grab	SW 846 8100	110	5,900	0.644		
4. Cyanide (CN)	57125	☒	☐	1	grab	SM-4500 CN	10	0	0		
5. Benzene (B)	71432	☐	☒	1	grab	SW-846 8260B	1	45	0.0049		
6. Toluene (T)	108883	☒	☐	1	grab	SW-846 8260B	1	0	0		
7. Ethylbenzene (E)	100414	☐	☒	1	grab	SW-846 8260B	1	40	0.0044		
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☐	☒	1	grab	SW-846 8260	1	14	0.0015		
9. Total BTEX [2]	n/a	☐	☒	1	grab	SW-846 8260B	1	99	0.0108		
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	1	grab	EPA 504.1	0.02	0	0		
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	1	grab	SW-846 8260	2	0	0		
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	1	grab	SW-846 8260	25	0	0		

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

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

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

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
13. tert-Amyl Methyl Ether (TAME)	9940508	☐	☒	18			grab	SM3500-CR D	18	0.0020	10
14. Naphthalene	91203	☐	☐	1	grab	EPA 524.2	0.5	0	0		
15. Carbon Tetrachloride	56235	☒	☒	1	grab	SW-846 8260	1	80	0.0087		
16. 1,2 Dichlorobenzene (o-DCB)	95501	☐	☐	1	grab	SW-846 8260	1	0	0		
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☒		1	grab	SW846 8270	5	0	0	
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☒		1	grab	SW846 8270	5	0	0	
18a. Total dichlorobenzene		☒	☐		1	grab	SW846 8270	5	0	0	
19. 1,1 Dichloroethane (DCA)	75343	☐	☐								
20. 1,2 Dichloroethane (DCA)	107062	☒	☒		1	grab	EPA 200.8	2	6	0.00065	
21. 1,1 Dichloroethene (DCE)	75354	☐	☒		1	grab	EPA 200.8	1	4.3	0.00046	
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐		1	grab	EPA 200.7	4	0	0	
23. Methylene Chloride	75092	☐	☐		1	grab	EPA 200.7	10	39	0.00425	
24. Tetrachloroethene (PCE)	127184	☐	☒		1	grab	EPA 200.7	15	0	0	
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	1	grab	SW-846 8260	1	0	0		
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	1	grab	SW-846 8260	1	0	0		
27. Trichloroethene (TCE)	79016	☒	☐	1	grab	SW-846 8260	1	0	0		

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
28. Vinyl Chloride (Chloroethene)	75014	☒	☐	1	grab	SW-846 8260	1	0	0		
29. Acetone	67641	☐	☒		1	grab	EPA 200.7	0.5	0	0	
30. 1,4 Dioxane	123911	☒	☐			1	grab	EPA 200.7	10	35	
31. Total Phenols	108952	☒	☐			1	grab	EPA 200.7	50	0	0.0038
32. Pentachlorophenol (PCP)	87865	☐	☒		1	grab	EPA 200.7	10	0	0	0
33. Total Phthalates (Phthalate esters) [4]		☒	☐			1	grab	EPA 200.7	20	85	
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐			1	grab	EPA 200.7	100	27,300	0.0093
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☐	☒		1	grab					2.98
a. Benzo(a) Anthracene	56553	☐	☒		1	grab	EPA 200.7	5	26	0.0028	
b. Benzo(a) Pyrene	50328	☒	☒	1	grab	SW-846 8260B	1	0	0		
c. Benzo(b)Fluoranthene	205992	☒	☒	1	grab	SW-846 8260	1	0	0		
d. Benzo(k)Fluoranthene	207089	☒	☒	1	grab	SW-846 8260	1	0	0		
e. Chrysene	21801	☐	☒	1	grab	SW-846 8260B	1	0	0		
f. Dibenzo(a,h)anthracene	53703	☐	☒	1	grab	SW-846 8260	1	0	0		
g. Indeno(1,2,3-cd) Pyrene	193395	☐	☐	1	grab	SW-846 8260	1	0	0		
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☐	☐	1	grab	SW-846 8260	1	0	0		

[4] The sum of individual phthalate compounds.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
h. Acenaphthene	83329	☐	☐	1	grab	SW-846 8260B	1	0	0		
i. Acenaphthylene	208968	☐	☐	grab	SW-846 8260BB	1	0	0			1
j. Anthracene	120127	☒	☐	grab	SW-846 8260B	50	0	0			1
k. Benzo(ghi) Perylene	191242	☒	☐	grab	SW-846 8260B	3	0	0			1
l. Fluoranthene	206440	☐	☐	grab	EPA 420.1	10	100	0.0109			1
m. Fluorene	86737	☐	☒	grab	SW846 8270D	5	0	0			1
n. Naphthalene	91203	☒	☐	grab	SW846 8270D	5	0	0			1
o. Phenanthrene	85018	☒	☐	grab	SW846 8270D	5	0	0			1
p. Pyrene	129000	☒	☐	grab	SW846 8270D	5	0	0			1
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	1	grab	SW-846 8260	1	0	0		
38. Chloride	16887006	☒	☐	grab	SW846 8270D	5	0	0			1
39. Antimony	7440360	☒	☐	grab	SW846 8270D	5	0	0			1
40. Arsenic	7440382	☒	☐	grab	SW846 8270D	5	0	0			1
41. Cadmium	7440439	☒	☐	grab	SW846 8270D	5	0	0			1
42. Chromium III (trivalent)	16065831	☒	☐	1	grab	SW846 8270D	1	0	0		
43. Chromium VI (hexavalent)	18540299	☒	☐		SW846 8270	5		0	0	1	grab
44. Copper	7440508	☒	☐	grab	SW846 8270D	5	0	0			1
45. Lead	7439921	☐	☒	grab	SW846 8270D	5	0	0			1
46. Mercury	7439976	☒	☐	grab	SW846 8270D	5	0	0			1
47. Nickel	7440020	☒	☐	SW846 8270D	5	6	0.00065			1	grab
48. Selenium	7782492	☒	☐	SW846 8270D	1	0	0			1	grab
49. Silver	7440224	☒	☐	grab	SW-846 8082	0.5	0	0		1	
50. Zinc	7440666	☒	☐	grab	SW846 8270D	5	0	0			1
51. Iron	7439896	☒	☐	grab	SW846 8270D	5	0	0			1
Other (describe):		☒	☐	1	grab	SW846 8270D	5	0	0		

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
		☐	☐								
		☐	☐								

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

Step 1: Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y ◉ N ○	If yes, which metals? Chromium VI, Nickel, Zinc, Iron
Step 2: For any metals which exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metal: Chromium VI DF: 20.23 Metal: Nickel DF: 20.23 Metal: Zinc DF: 20.23 Metal: Iron DF: 20.23 Etc.	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 Y, list which metals: Iron

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:

Remediation of No. 2 fuel oil contaminated groundwater, recovery well pumping to bag filter, to two GAC units in series to discharge to onsite catchbasin to municipal storm sewer to eventual discharge to Malden River.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ☐	Air stripper ☐	Oil/water separator ☐	Equalization tanks ☐	Bag filter ☒	GAC filter ☒
	Chlorination ☐	De-chlorination ☐	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 10 gpm Maximum flow rate of treatment system 20 gpm
Design flow rate of treatment system 20 gpm

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

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

a) Identify the discharge pathway:	Direct to receiving water ☐	Within facility (sewer) ☐	Storm drain ☒	Wetlands ☐	Other (describe):

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:
Treated effluent discharges to onsite catch basin. Basin discharges to municipal storm sewer which eventually discharges to Malden River

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

d) Provide the state water quality classification of the receiving water B Warm Water

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 0.858 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Y ◉ N ○ If yes, for which pollutant(s)?

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

6. ESA and NHPA Eligibility.

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

a) Using the instructions in Appendix VII and information on Appendix II, under which criterion listed in Part I.C are you eligible for coverage under this general permit?

A ◉ B ○ C ○ D ○ E ○ F ○

b) If you selected Criterion D or F, has consultation with the federal services been completed? Y ○ N ○ Underway ○

c) If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received? Y ◉ N ○

d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.

e) Using the instructions in Appendix VII, under which criterion listed in Part II.C are you eligible for coverage under this general permit?

1 ◉ 2 ○ 3 ○

f) If Criterion 3 was selected, attach all written correspondence with the State or Tribal historic preservation officers, including any terms and conditions that outline measures the applicant must follow to mitigate or prevent adverse effects due to activities regulated by the RGP.

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:	FORMER TEXTILE SITE
Operator signature:	Brian White Digitally signed by Brian White DN: CN = Brian White, C = US, O = EBI Reason: I am the author of this document Date: 2010.11.17 12:20:26 -05'00'
Printed Name &Title:	Brian White, Senior Scientist
Date:	11/17/10

ATTACHMENTS FOR

NPDES NOI

120 TREMONT STREET, EVERETT, MA

RTN 3-10153

1. Line Drawing of System (Figure 5 Remedial Design Schematic)
2. NPDES NOI Dilution Calculation
3. USGS Topographic Map showing limits of Drainage Basin
4. Detailed Map of Receiving Water
5. Site Plan showing locations of storm sewer and sanitary sewer in proximity to the Site
6. USGS Topographic Map
7. Massachusetts GIS Map
8. NPDES NOI Mass Calculation
9. Analytical data sheets
10. Letter from Division of Fisheries and Wildlife
11. Letter from Massachusetts Historical Commission

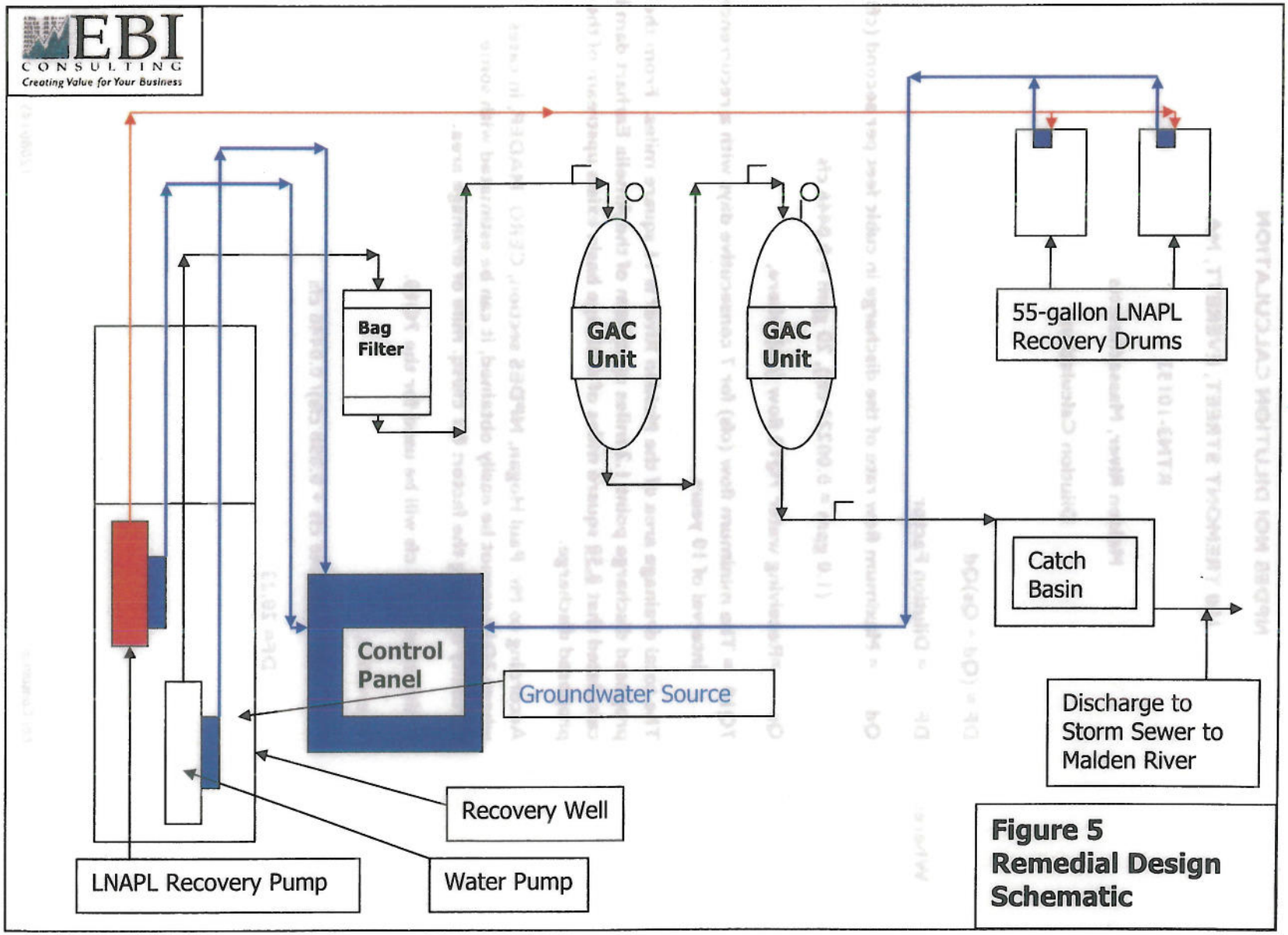


Figure 5
Remedial Design Schematic

NPDES NOI DILUTION CALCULATION

120 TREMONT STREET, EVERETT, MA

RTN3-10153

Malden River, Massachusetts

Dilution Calculation

$$DF = (Qd + Qs)Qd$$

Where:

DF = Dilution Factor

Qd = Maximum flow rate of the discharge in cubic feet per second (cfs)

(1.0 gpm = 0.00223 cfs), 20 gpm = 0.0446 cfs

Qs =Receiving water 7Q10 flow (cfs) where,

7Q10 = The minimum flow (cfs) for 7 consecutive days with a recurrence interval of 10 years

The total drainage area of the Malden River is 11 square miles. From the proposed discharge point 1.2 miles upstream of the Amelia Earhart dam it is calculated that 8.58 square miles of drainage basin exists upstream of the proposed discharge.

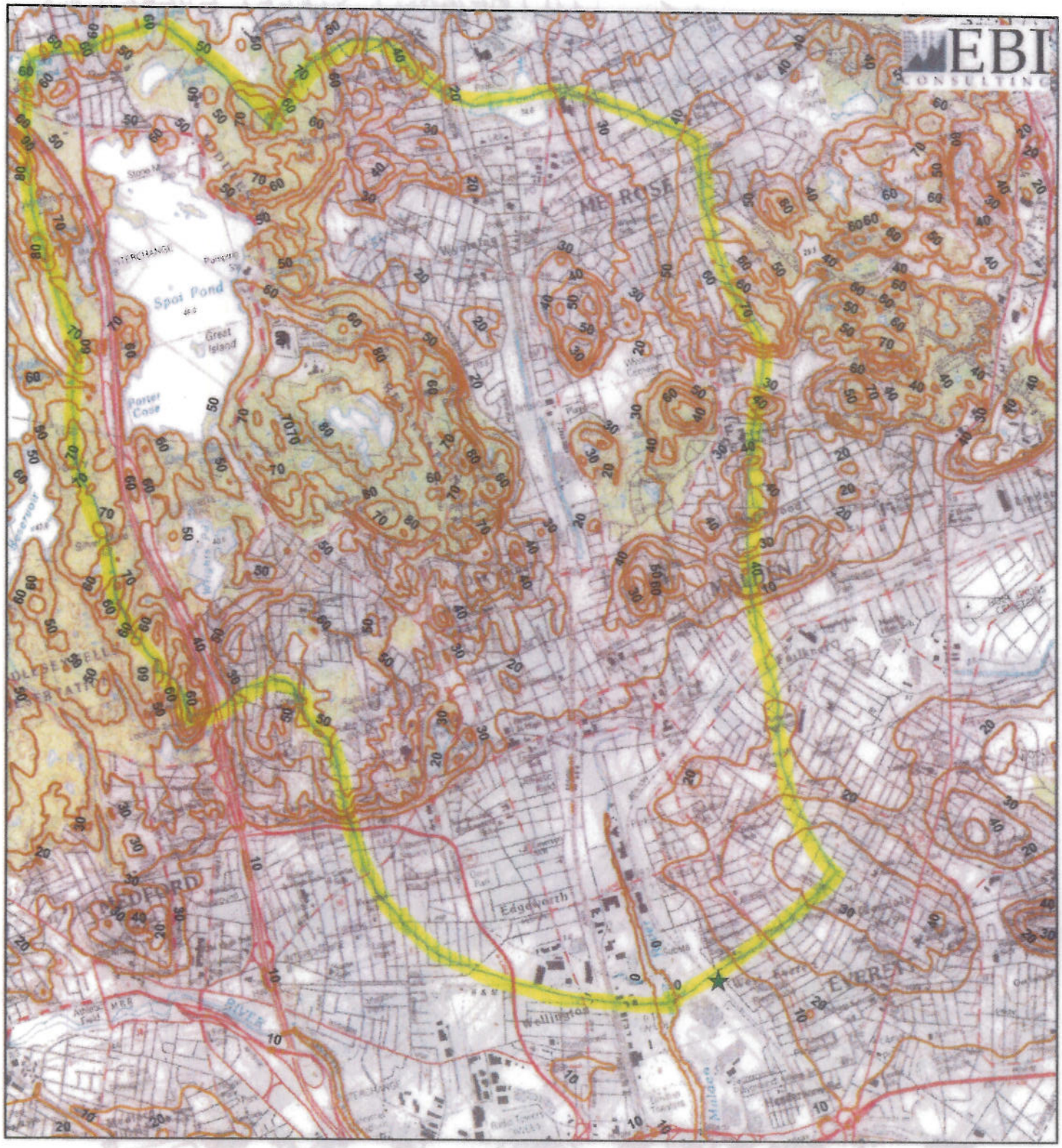
According to Mr. Paul Hogan, NPDES section, CERO, MADEP, in cases where 7Q10 cannot be easily obtained, it can be estimated with some certainty by using the factor: 0.1 cfs/sq. mile of drainage area.

In this case 0.858 cfs will be used for the 7Q10.

Therefore,

DF = (0.0446 cfs + 0.858 cfs)/ 0.0446 cfs

DF= 20.23



Legend

★ Project Site — 10 Meter Contour

USGS 24k Quad: Boston North, MA 1980

Source: Selected data from USGS and EBI.

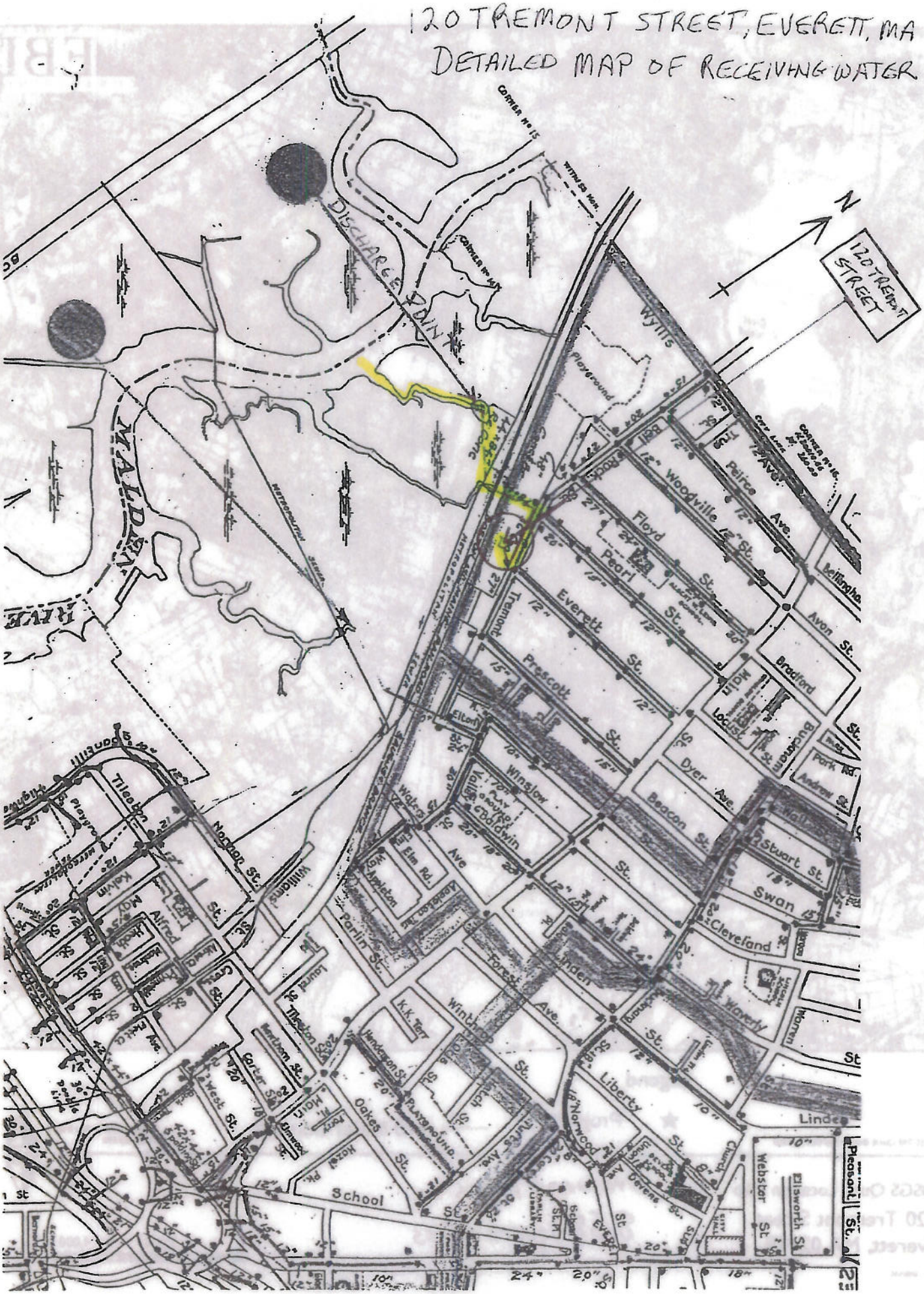
USGS Quad Location Map
120 Tremont Street
Everett, MA 02149

PN 12080145

Drainage Area
8.58 square miles

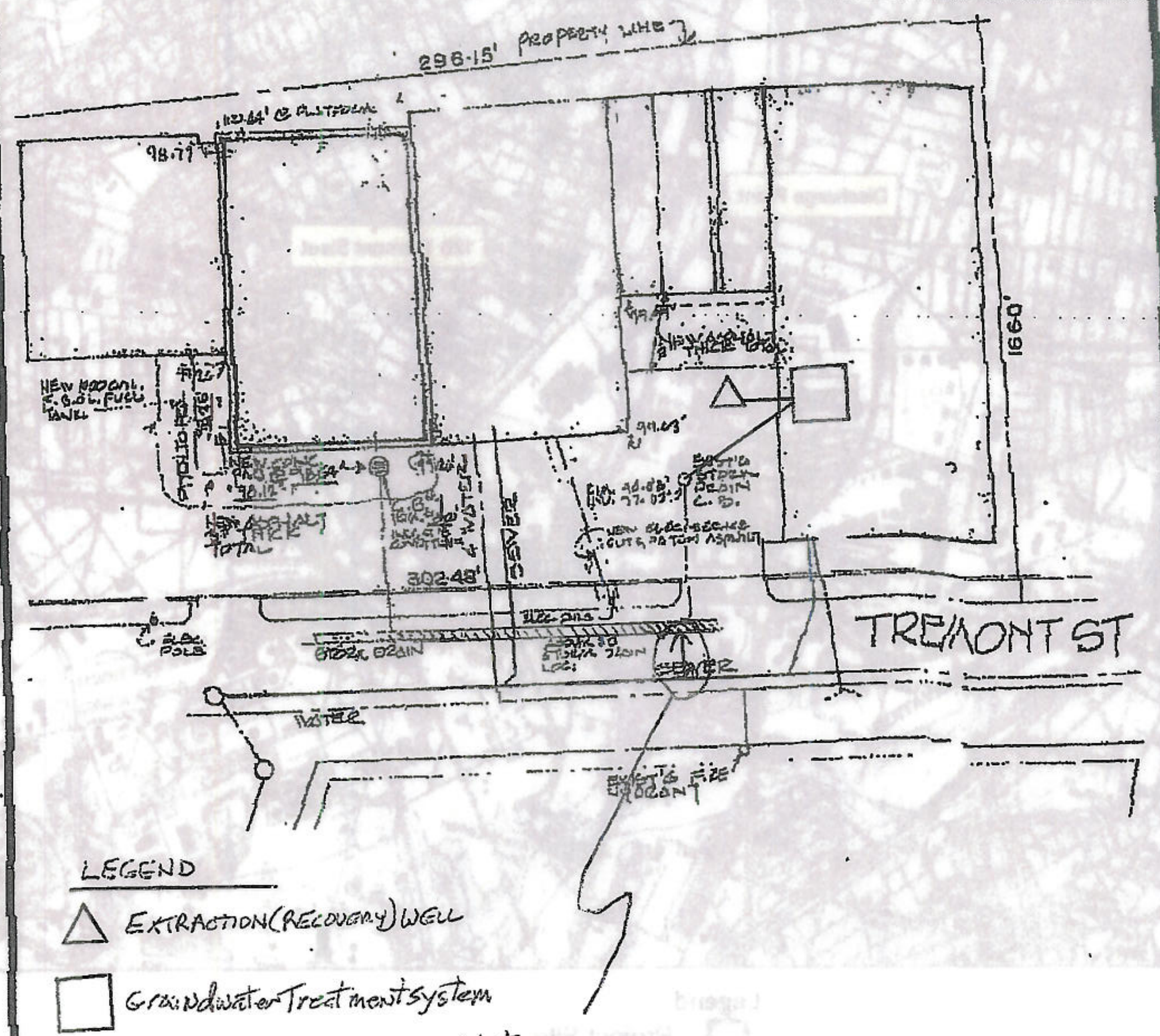
0 2,000 4,000 Feet

120 TREMONT STREET, EVERETT, MA
DETAILED MAP OF RECEIVING WATER



SITE PLAN

120 Tremont Street, Everett, MA



Note:
STORM SEWER is Approximately 15'
from sanitary sewer in Tremont Street

0 25' 50'

The information that is provided above is from sources that are deemed to be reliable and is subject to error, omission, change in price or withdrawal from the market without any prior notice.

Legend

Project Site

Project Radius at 1/2, and 1 Mile

USGS 24k Quad: Boston North, MA 1980

Source: Selected data from USGS and EBI.

USGS Quad Location Map

120 Tremont Street
Everett, MA 02149

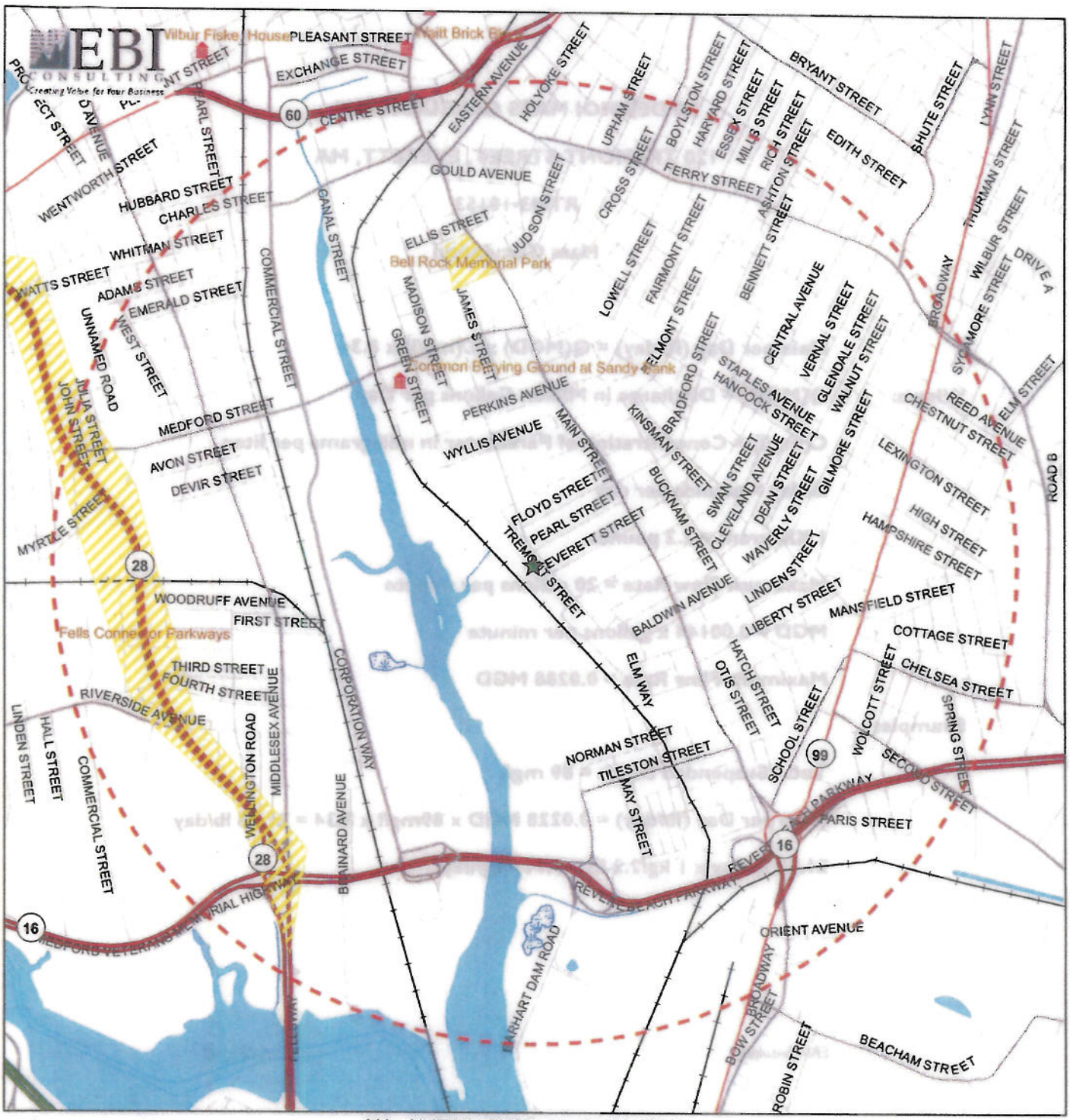
1 inch equals 2,000 feet

0 300 600 1,200 Meters

0 1,000 2,000 4,000 Feet

N

PN: 12080145



★ Project Site

Site Radius at 1 Mile

National Register Site

National Register District

MA - NHESP 2008 Estimated Habitats for Rare Wildlife

MA - Area of Environmental Concern

MA - NHESP 2008 Priority Habitat for State Protected Rare Species

MA - NHESP 2009 Certified Vernal Pool

Historic Resources / Priority Habitat Map

Source: Selected data from FEMA, NWI, ESRI and EBI MA GIS & National Register

120 TREMONT STREET
EVERETT, MA 02149

0 0.25 0.5 Miles

PN: 12090145

NPDES NOI MASS CALCULATION

120 TREMONT STREET, EVERETT, MA

RTN3-10153

Mass Calculation

Mass per Day (lb/day) = Q(MGD) x C(mg/l) x 8.34

Where:

Q(MGD) = Discharge in Million Gallons per Day

C(mg/l) = Concentration of Parameter in milligrams per liter

lb/day = pounds per day

1 Kilogram = 2.2 pounds

Maximum Flow Rate = 20 gallons per minute

MGD = 0.00144 x gallons per minute

Maximum Flow Rate = 0.0288 MGD

Example:

Total Suspended Solids = 89 mg/l

Mass per Day (lb/day) = 0.0228 MGD x 89mg/l x 8.34 = 21.38 lb/day

21.38 lb/day x 1 kg/2.2 lb = 9.717 kg/day

R.I. ANALYTICAL
Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

EBI Consultants
Attn: Mr. Mike Penzo
21 B Street
Burlington, MA 01803

Date Received: 2/27/09
Date Reported: 3/10/09
Date Revised: 4/8/09
P.O. #:
Work Order # 0902-03354

DESCRIPTION: PROJECT# 12090028 EVERETT

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:

Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

EBI Consultants
Date Received: 2/27/09
Work Order #: 0902-03354

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: RW-1
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 2/26/2009 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Suspended Solids	89	2.0	mg/l	SM-2540D	3/4/09	ALC
Hexavalent Chromium	<0.02	0.02	mg/l	SM3500-CR D	2/27/09	CAA
Total Residual Chlorine	<0.1	0.1	mg/l	SM 4500CL G	2/27/09	ML
Total Cyanide	0.01	0.01	mg/l	SM-4500CN-C E	3/3/09	ML
Total Phenol	0.10	0.01	mg/l	EPA 420.1	3/3/09	EC
TPH						
TPH GC/FID	5900	110	ug/l	SW846 8100M	3/5/09	CDC
Extraction date	Extracted			SW846 3510	3/4/09	EOO
PCB						
Aroclor-1016	<0.5	0.5	ug/l	SW-846 8082	3/4/09	MFT
Aroclor-1221	<0.5	0.5	ug/l	SW-846 8082	3/4/09	MFT
Aroclor-1232	<0.5	0.5	ug/l	SW-846 8082	3/4/09	MFT
Aroclor-1242	<0.5	0.5	ug/l	SW-846 8082	3/4/09	MFT
Aroclor-1248	<0.5	0.5	ug/l	SW-846 8082	3/4/09	MFT
Aroclor-1254	<0.5	0.5	ug/l	SW-846 8082	3/4/09	MFT
Aroclor-1260	<0.5	0.5	ug/l	SW-846 8082	3/4/09	MFT
Surrogate			RANGE	SW-846 8082	3/4/09	MFT
Tetrachloro-m-xylene (TCMX)	110		30-150%	SW-846 8082	3/4/09	MFT
Decachlorobiphenyl	33		30-150%	SW-846 8082	3/4/09	MFT
Extraction date	Extracted			SW846 3510	3/3/09	EOO
Volatile Organic Compounds						
Benzene	45	1	ug/l	SW-846 8260B	3/3/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	3/3/09	MMM
n-Butylbenzene	12	1	ug/l	SW-846 8260B	3/3/09	MMM
Sec-butylbenzene	6	1	ug/l	SW-846 8260B	3/3/09	MMM
tert-Butylbenzene	22	1	ug/l	SW-846 8260B	3/3/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	3/3/09	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	3/3/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	3/3/09	MMM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

EBI Consultants
Date Received: 2/27/09
Work Order #: 0902-03354

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: RW-1
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 2/26/2009 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
1,2-Dibromoethane(EDB)	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	3/3/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	3/3/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Ethylbenzene	40	1	ug/l	SW-846 8260B	3/3/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Isopropylbenzene	11	1	ug/l	SW-846 8260B	3/3/09	MMM
p-Isopropyltoluene	6	1	ug/l	SW-846 8260B	3/3/09	MMM
Methylene Chloride	<2	2	ug/l	SW-846 8260B	3/3/09	MMM
Naphthalene	80	1	ug/l	SW-846 8260B	3/3/09	MMM
n-Propylbenzene	15	1	ug/l	SW-846 8260B	3/3/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
1,2,4-Trimethylbenzene	140	1	ug/l	SW-846 8260B	3/3/09	MMM
1,3,5-Trimethylbenzene	20	1	ug/l	SW-846 8260B	3/3/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	3/3/09	MMM
o-Xylene	3	1	ug/l	SW-846 8260B	3/3/09	MMM
m,p-Xylene	11	1	ug/l	SW-846 8260B	3/3/09	MMM
Total Xylene	14	1	ug/l	SW-846 8260B	3/3/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	3/3/09	MMM
Surrogates			RANGE	SW-846 8260B	3/3/09	MMM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

EBI Consultants
Date Received: 2/27/09
Work Order #: 0902-03354

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: RW-1
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 2/26/2009 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Dibromofluoromethane	105		86-118%	SW-846 8260B	3/3/09	MMM
Toluene-d8	107		88-110%	SW-846 8260B	3/3/09	MMM
4-Bromofluorobenzene	107		86-115%	SW-846 8260B	3/3/09	MMM
1,2 Dichloroethane-d4	104		80-120%	SW-846 8260B	3/3/09	MMM
Semi-Volatile Organic Compounds						
Acenaphthene	<1	1	ug/l	SW-846 8270D	3/27/09	RGM
Acenaphthylene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Anthracene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Benzidine	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Benzo(a)anthracene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Benzo(b)fluoranthene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Benzo(k)fluoranthene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Benzo(g,h,i)perylene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Benzo(a)pyrene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Bis(2-chloroethyl)ether	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Bis(2-Chloroethoxy)methane	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Bis(2-Chloroisopropyl)Ether	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Bis(2-ethylhexyl)phthalate	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
4-Bromophenyl phenyl ether	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Butylbenzyl phthalate	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
2-Chloronaphthalene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
4-Chlorophenyl phenyl ether	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Chrysene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Dibenzo(a,h)anthracene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Di-n-butyl phthalate	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
1,2-Dichlorobenzene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
1,3-Dichlorobenzene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
1,4-Dichlorobenzene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
3,3'-Dichlorobenzidine	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Diethyl phthalate	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Dimethyl phthalate	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
2,4-Dinitrotoluene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
2,6-Dinitrotoluene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Di-n-octyl phthalate	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
1,2-Diphenylhydrazine	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Fluoranthene	<1	1	ug/l	SW-846 8270D	3/27/09	RGM
Fluorene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Hexachlorobenzene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Hexachlorobutadiene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Hexachlorocyclopentadiene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Hexachloroethane	<5	5	ug/l	SW-846 8270D	3/3/09	RGM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

EBI Consultants
Date Received: 2/27/09
Work Order #: 0902-03354

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: RW-1
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 2/26/2009 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Indeno(1,2,3-cd)pyrene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Isophorone	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Naphthalene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Nitrobenzene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
N-nitrosodimethylamine	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
N-nitrosodiphenylamine	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
N-nitrosodi-n-propylamine	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Phenanthrene	6	5	ug/l	SW-846 8270D	3/3/09	RGM
Pyrene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
1,2,4-Trichlorobenzene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
4-Chloro-3-methylphenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
2-Chlorophenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
2,4-Dichlorophenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
2,4-Dimethylphenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
2-Methyl-4,6-dinitrophenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
2,4-Dinitrophenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
2-Nitrophenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
4-Nitrophenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Pentachlorophenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Phenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
2,4,5-Trichlorophenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
2,4,6-Trichlorophenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
2-Methylnaphthalene	10	5	ug/l	SW-846 8270D	3/3/09	RGM
2-Methylphenol	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
3 & 4-Methylphenols	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Acetophenone	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Aniline	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Azobenzene	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
4-Chloroaniline	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Dibenzofuran	<5	5	ug/l	SW-846 8270D	3/3/09	RGM
Surrogates			RANGE	SW-846 8270D	3/3/09	RGM
Phenol-d5	17		15-110%	SW-846 8270D	3/3/09	RGM
2-Fluorophenol	16		15-110%	SW-846 8270D	3/3/09	RGM
2,4,6-Tribromophenol	110		15-110%	SW-846 8270D	3/3/09	RGM
Nitrobenzene-d5	54		30-130%	SW-846 8270D	3/3/09	RGM
2-Fluorobiphenyl	61		30-130%	SW-846 8270D	3/3/09	RGM
P-Terphenyl-d14	42		30-130%	SW-846 8270D	3/3/09	RGM
Total Metals						
Antimony	<0.100	0.100	mg/l	EPA 200.7	3/10/09	VMY
Arsenic	<0.020	0.020	mg/l	EPA 200.7	3/10/09	VMY
Cadmium	<0.004	0.004	mg/l	EPA 200.7	3/10/09	VMY

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

EBI Consultants
Date Received: 2/27/09
Work Order #: 0902-03354

Approved by: _____
Data Reporting

Sample # 001
SAMPLE DESCRIPTION: RW-1
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 2/26/2009 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chromium	0.026	0.005	mg/l	EPA 200.7	3/10/09	VMY
Copper	0.039	0.010	mg/l	EPA 200.7	3/10/09	VMY
Iron	27.3	0.100	mg/l	EPA 200.7	3/10/09	VMY
Lead	<0.015	0.015	mg/l	EPA 200.7	3/10/09	VMY
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	3/4/09	MAZ
Nickel	0.035	0.010	mg/l	EPA 200.7	3/10/09	VMY
Selenium	<0.050	0.050	mg/l	EPA 200.7	3/10/09	VMY
Silver	<0.020	0.020	mg/l	EPA 200.7	3/10/09	VMY
Zinc	0.085	0.020	mg/l	EPA 200.7	3/10/09	VMY

Per request of the client a separate analysis was performed on this sample on 12 Mar 09 to include the following compounds with the following results:

tert-Butyl alcohol <25 ppb
tert-Amyl methyl ether <5ppb
Acetone <50

SURROGATES:
Dibromofluoromethane = 94%
Toluene-d8 = 96%
4-Bromofluorobenzene = 103%
1,2-Dichloroethane-d4= 98%

CHAIN OF CUSTODY RECORD

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580
Fax: 401-738-1970

131 Coolidge St, Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580
Fax: 978-568-0078

02-24-09

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	TPH (8100M)	Phenols	PCBs	SVOCs	Total Metals *	Cyanide	TSS, Hex Chrom, Tot Res Cl	8260 (Full List)	* Metals should include: Sb As Cd Cr Cu Fe Pb Hg Ni Se Ag Zn
2/26/09	1100	RW-1		2A	S	GW	X								
		RW-1		1A	S	GW		X							
		RW-1		4A	NP	GW			X	X					
		RW-1		1P	N	GW					X				
		RW-1		1P	SB	GW						X			
		RW-1		1P	NP	GW							X		
		RW-1		2V	H	GW								X	

(12 SB)

Client Information

Company Name:	EBI Consultants
Address:	21 B Street
City / State / Zip:	Burlington, MA 01803
Telephone:	781-273-2500 Fax: 781-273-3311
Contact Person:	Mike Penzo

Project Information

Project Name:	Everett
P.O. Number:	Project Number: 12090028
Report To:	Mike Penzo Phone: 781-418-2321 Fax: 781-418-2371
Sampled by:	B. White
Quote No:	EB1090211
Email report to these addresses:	mpenzo@ebiconsulting.com

Relinquished By	Date	Time	Received By	Date	Time
	2/27/09	10:35 AM		2/27/09	10:35 AM
	2/27/09	16:20		2/27/09	16:20
	2/27/09	17:40		2/27/09	17:40

Turn Around Time

X	Normal	X	EMAIL Report
	5 Business days		
	Rush _____ (business days)		

Project Comments

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3

MCP Data Enhancement QC Package? Yes (No)

Temp. Upon Receipt 4.3 °C

Lab Use Only

	Sample Pick Up Only
	RIAL sampled; attach field hours
	Shipped on ice

Workorder No 09 02-3357

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SB=$NaHSO_4$, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc

Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

EBI Consultants
Attn: Mr. Michael Penzo
21 B Street
Burlington, MA 01803

Date Received: 04/23/2009
Date Reported: 05/01/2009
Date Revised: 05/05/2009
P.O. #:
Work Order #: 0904-06865

DESCRIPTION: PROJECT# 12090028 REPEAT SAMPLING - EVERETT REMEDIATION

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

EBI Consultants
Date Received: 04/23/2009
Work Order #: 0904-06865

Approved by: _____
Data Reporting

Sample #: 001
SAMPLE DESCRIPTION: RW-1
SAMPLE TYPE: GRAB
SAMPLE DATE/TIME: 4/23/2009 @ 10:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Residual Chlorine	<500	500	ug/l	SM 4500CL G	04/23/2009	CAA
Hexavalent Chromium	18	10	ug/l	SM3500-CR D	04/23/2009	CAA
Dissolved Metals						
Iron	7170	100	ug/l	EPA 200.7	04/29/2009	VMY
Total Metals						
Iron	11300	100	ug/l	EPA 200.7	04/29/2009	VMY
Silver	<10	10	ug/l	EPA 200.7	04/29/2009	VMY
Total Metals						
Antimony	6.0	2.0	ug/l	EPA 200.8	04/30/2009	LW
Arsenic	4.3	1.0	ug/l	EPA 200.8	04/30/2009	LW
Organic Compounds						
1,2-Dibromoethane (EDB)	<0.02	0.02	ug/l	EPA 504.1	04/30/2009	RGM
Volatile Organic Compounds						
Tertiary Amyl Methyl Ether (TAME)	0.5	0.5	ug/l	EPA 524.2	04/29/2009	MMM
Surrogates			RANGE	EPA 524.2	04/29/2009	MMM
4-Bromofluorobenzene	112		80-120%	EPA 524.2	04/29/2009	MMM
1,2-Dichlorobenzene-d4	99		80-120%	EPA 524.2	04/29/2009	MMM
Volatile Organic Compounds						
1,4-Dioxane	<3	3	ug/l	SW-846 8260B	04/24/2009	MMM
Surrogates			RANGE	SW-846 8260B	04/24/2009	MMM
1,4- Dioxane-d8	108		70-130%	SW-846 8260B	04/24/2009	MMM

Total Residual Chlorine - Increased detection limit due to sample matrix.

R.I. ANALYTICAL
Specialists in Environmental Services

Case Narrative

Date: 5/1/2009

EBI Consultants
Attn: Mr. Michael Penzo
F21 B Street
Burlington, MA 01803

Project: 12090028 REPEAT SAMPLING – EVERETT REMEDIATION

RIAL WO# 0904-06865

The following exceptions were noted for this Work Order:

The method requested for Total Residual Chlorine is not listed in the table of contents for compendium of MCP analytical methods. Therefore, there is no guideline for presumptive certainty. Total Residual Chlorine also had an Increased detection limit due to sample matrix.

For the Volatile Organic Compound 1,4-Dioxane, an LCSD was not run with this project.

Most of the Volatile Organic Compounds Method 8260B LCS/LCSD percent recoveries were within the recommended range of 70-130% except for; Tertiary Amyl Methyl Ether (TAME) (LCSD 145%). Method guidelines are recoveries between 70 to 130% and RPD's of less than 25%. All nonconforming compounds require narration. There was no additional sample remaining for a re-analysis.

Dissolved Metals were filtered upon receipt.

There were no additional exceptions or analytical issues to discuss concerning the testing requirements for the project.

Michael J. Hobin
QA/QC Manager

R.I. ANALYTICAL
Specialists in Environmental Services

Customer Name : EBI Consultants

W.O. Number 0904-06865

MADEP MCP Response Action Analytical Report Certification Form			
Laboratory Name: R.I. Analytical Laboratories		Work Order No: 0904-06865	
Project / Location: PROJECT# 12090028 REPEAT SAMPLING - EVERETT REMEDIATION			MADEP RTN 1 :
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]			
0904-06865-001 through 0904-06865-001			

Sample Matrices: ☒ Groundwater ☐ Soil / Sediment ☐ Drinking Water ☐ Other :

MCP SW-846 As specified in MADEP Compendium of Analytical Methods. (check all that apply)					
	8260B (☒)	8151A ( )	8330 ( )	6010B( )	7470A/1A( )
	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9014M 2 ( )
	8082 ( )	8021B ( )	EPH ( )	7000 S 3 ( )	OTHER (☒)
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 analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Aquisition 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?	☐ Yes ☒ No 1
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☒ Yes ☐ No 1

1 All NO answers 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 _____ Date: 5/11/09

Mike Hobin / QA/QC Manager

41 Illinois Avenue, Warwick, RI 02888
Phone: 401.737.8500 Fax: 401.738.1970

nelac

131 Coolidge Street, Suite 105, Hudson, MA 01749
Phone: 978.568.0041 Fax: 978.568.0078

QA/QC Report

Client: EBI Consultants
WO #: 0904-06865
Date: 5/1/09

-Method Blanks Results-

Parameter	Units	Results	Date Analyzed
Total Residual Chlorine	mg/l	<0.1	4/23/2009
Hexavalent Chromium	mg/l	<0.02	4/23/2009
EDB by Method 504 (Aqueous)			
1,2-Dibromoethane (EDB)	ug/l	<0.02	4/30/2009
Volatile Organics by Method 524.2 (Aqueous)			
Tertiary Amyl Methyl Ether	ug/l	<0.5	4/29/2009
Surrogates	**RANGE**		4/29/2009
4-Bromofluorobenzene	80-120%	95	4/29/2009
1,2-Dichlorobenzene-d4	80-120%	99	4/29/2009
Volatile Organics by Method 8260			
1,4-Dioxane	ug/l	<3	4/24/2009
1,4- Dioxane-d8	70-130%	94	4/24/2009
Metals (Aqueous)			
Iron	ug/l	<100	4/29/2009
Silver	ug/l	<10	4/29/2009
Metals by ICPMS (Aqueous)			
Antimony	ug/l	<2.0	4/30/2009
Arsenic	ug/l	<1.0	4/30/2009

-LCS/LCS Duplicate Data Results-

Parameter	Spike Conc	LCS Conc	LCS % Rec	LCS Dup Conc	LCS DUP % Rec	% RPD	Date Analyzed
Total Residual Chlorine	1.01	1.017	101			0	4/23/2009

QA/QC Report

Client: EBI Consultants
WO #: 0904-06865
Date: 5/1/09

-LCS/LCS Duplicate Data Results-

Parameter	Spike Conc	LCS Conc	LCS % Rec	LCS Dup Conc	LCS DUP % Rec	% RPD	Date Analyzed
Hexavalent Chromium	0.200	0.199	100	0.198	99	1	4/23/2009
Volatile Organics by Method 8260							
1,4-Dioxane	5.0	4.92	98			0	4/24/2009
1,4-Dioxane-d8		101				0	4/24/2009
EDB by Method 504 (Aqueous)							
1,2-Dibromoethane (EDB)	5.0	4.6	92	5.3	106	14	4/30/2009
Volatile Organics by Method 524.2 (Aqueous)							
Tertiary Amyl Methyl Ether	8.0	9.44	118	11.58	145	20	4/29/2009
Surrogates							4/29/2009
4-Bromofluorobenzene		98		96			4/29/2009
1,2-Dichlorobenzene-d4		98		100			4/29/2009
Metals (Aqueous)							
Iron	10000	10900	109	10700	107	2	4/29/2009
Silver	1000	996	100	983	98	1	4/29/2009
Metals by ICPMS (Aqueous)							
Antimony	100	104	104	119	119	13	4/30/2009
Arsenic	100	85.4	85	95.7	96	11	4/30/2009

CHAIN OF CUSTODY RECORD

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580
Fax: 401-738-1970

131 Coolidge St, Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580
Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type [T]	Preservation Code [P]	Matrix Code [M]		Sb – MDL 50 µg/L	As – MDL 5 µg/L	Fe, Total – MDL 100 µg/L	Ag – MDL 10 µg/L	Residual Chlorine – MDL 11 µg/L	Fe, Dissolved – MDL 100 µg/L	Lab filtration for dissolved Fe	Cr^{+6} – MDL 10 µg/L	1,4-dioxane – MDL 50 µg/L	EDB – MDL 0.05 µg/L	TAME – MDL 0.5 µg/L
4/23/09	1000	RW-1	G	1 P	N	GW		X	X	X	X							
			G	1 P	NP	GW						X	X	X	X			
			G	3 V	H	GW										X	X	X

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Client Information

Company Name:	EBI Consultants
Address:	21 B Street
City / State / Zip:	Burlington, MA 01803
Telephone:	617-418-2321 Fax: 617-418-2371
Contact Person:	Michael Penzo

Project Information

Project Name:	Repeat Sampling – Everett Remediation		
P.O. Number:		Project Number:	12090028
Report To:	Michael Penzo	Phone: 617-418-2321	Fax: 617-418-2371
Sampled by:	B White	Email report to these addresses:	mpenzo@ebiconsulting.com
Quote No:	EBI090431		

Relinquished By	Date	Time	Received By	Date	Time
	4/23/09	1430		4-23-09	1430
	4-23-09	16:05		4-23-09	16:05
	4-23-09	17:40		4/23/09	1740

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Turn Around Time

	Normal	X	EMAIL Report
X	5 Business days		
	Rush _____ (business days)		

Project Comments

Circle if applicable: **GW-1**

MCP Data Enhancement QC Package? **Yes**

1°C

Lab Use Only

	Sample Pick Up Only
	RIAL sampled; attach field hours
X	Shipped on ice

Workorder No: 0907-0686

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile

Preservation Codes: NP=None, N=HNO_3, H=HCl, S=H_2SO_4, SH=NaOH, SB=$NaHSO_4$, M=MeOH, T=$Na_2S_2O_3$, Z=ZnOAc, I=Ice

Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, O=_____

Commonwealth of Massachusetts

Division of Fisheries & Wildlife

MassWildlife

Wayne F. MacCallum, *Director*

4/16/2009

Michael Penzo
EBI Consulting
21 B Street
Burlington MA 01803

RE: Project Location: 120 Tremont St
Town: EVERETT
NHESP Tracking No : 09-26501

To Whom It May Concern:

Thank you for contacting the Natural Heritage and Endangered Species Program ("NHESP") of the MA Division of Fisheries & Wildlife for information regarding state-listed rare species in the vicinity of the above referenced site.

Based on the information provided, the NHESP has determined that at this time the site is not mapped as Priority or Estimated Habitat. The NHESP database does not contain any state-listed species records in the immediate vicinity of this site.

This evaluation is based on the most recent information available in the NHESP database, which is constantly being expanded and updated through ongoing research and inventory. If you have any questions regarding this letter please contact Emily Holt, Endangered Species Review Assistant, at (508) 389-6361.

Sincerely,

Thomas W. French

Thomas W. French, Ph.D.
Assistant Director

ENDANGERED SPECIES RESULTS FOR MASSACHUSETTS

COUNTY: Barnstable
NUMBER OF SPECIES: 3

Common Name	*Scientific Name*	*Group*
Gerardia, Sandplain	Agalinus Acuta	Plant
Plover, Piping	Charadrius Melodus	Bird
Eagle, Bald	Haliaeetus Leucocephalus	Bird

COUNTY: Berkshire
NUMBER OF SPECIES: 3

Common Name	*Scientific Name*	*Group*
Bat, Indiana	Myotis Sodalis	Mammal

COUNTY: Bristol
NUMBER OF SPECIES: 3

Common Name	*Scientific Name*	*Group*
Plover, Piping	Charadrius Melodus	Bird
Eagle, Bald	Haliaeetus Leucocephalus	Bird

COUNTY: Dukes
NUMBER OF SPECIES: 2

Common Name	*Scientific Name*	*Group*
Plover, Piping	Charadrius Melodus	Bird
Beetle, Northeastern Beach Tiger	Cicindela Dorsalis Dorsalis	Insect
Eagle, Bald	Haliaeetus Leucocephalus	Bird

COUNTY: Essex
NUMBER OF SPECIES: 4

Common Name	*Scientific Name*	*Group*
Plover, Piping	Charadrius Melodus	Bird
Eagle, Bald	Haliaeetus Leucocephalus	Bird
Pogonia, Small Whorled	Isotria Medeoloides	Plant

COUNTY: Franklin
NUMBER OF SPECIES: 3

Common Name	*Scientific Name*	*Group*
Eagle, Bald	Haliaeetus Leucocephalus	Bird
Bat, Indiana	Myotis Sodalis	Mammal
Bulrush, Northeastern (=Barbed Bristle)	Scirpus Ancistrochaetus	Plant

COUNTY: Hampden
NUMBER OF SPECIES: 3

Common Name	*Scientific Name*	*Group*
Eagle, Bald	Haliaeetus Leucocephalus	Bird
Pogonia, Small Whorled	Isotria Medeoloides	Plant
Bat, Indiana	Myotis Sodalis	Mammal

COUNTY: Hampshire
NUMBER OF SPECIES: 3

Common Name	*Scientific Name*	*Group*
Beetle, Puritan Tiger	Cicindela Puritana	Insect
Eagle, Bald	Haliaeetus Leucocephalus	Bird
Pogonia, Small Whorled	Isotria Medeoloides	Plant
Bat, Indiana	Myotis Sodalis	Mammal

COUNTY: Middlesex
NUMBER OF SPECIES: 2

Common Name	*Scientific Name*	*Group*
Eagle, Bald	Haliaeetus Leucocephalus	Bird
Bat, Indiana	Myotis Sodalis	Mammal

COUNTY: Nantucket
NUMBER OF SPECIES: 1

Common Name	*Scientific Name*	*Group*
Plover, Piping	Charadrius Melodus	Bird
Eagle, Bald	Haliaeetus Leucocephalus	Bird

COUNTY: Plymouth
NUMBER OF SPECIES: 2

Common Name	*Scientific Name*	*Group*
Plover, Piping	Charadrius Melodus	Bird
Eagle, Bald	Haliaeetus Leucocephalus	Bird
Curlew, Eskimo	Numenius Borealis	Bird

COUNTY: Worcester

NUMBER OF SPECIES: 3

Common Name	*Scientific Name*	*Group*
Eagle, Bald	Haliaeetus Leucocephalus	Bird
Pogonia, Small Whorled	Isotria Medeoloides	Plant
Bat, Indiana	Myotis Sodalis	Mammal

[Top]

The Commonwealth of Massachusetts
William Francis Galvin, Secretary of the Commonwealth
Massachusetts Historical Commission

March 31, 2009

Michael A. Penzo
EBI Consulting
21 B Street
Burlington, MA 01803

RE: 120 Tremont Street Remediation, 120 Tremont Street, Everett, MA. MHC# RC.46096

Dear Mr. Levenson:

Thank you for submitting the Project Notification Form (PNF) to the Massachusetts Historical Commission for the project referenced above. Staff of the MHC have reviewed the information you submitted and our files. The project consists of the application for coverage under a US Environmental Project Agency National Pollutant Discharge and Elimination System permit to discharge treated groundwater from an existing commercial facility at 120 Tremont Street in Everett.

Since there is no new construction or demolition, the project has "no potential to cause effects" (36 CFR 800.3(a)(1)) to historic properties.

These comments are offered to assist in compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (36 CFR 800) and the Massachusetts General Laws, Chapter 9, Section 26-27C (950 CMR 71). If you have any questions or require further information, please contact Tim Hollis at this office.

Sincerely,

Jonathan K. Patton
Archaeologist/Preservation Planner
Massachusetts Historical Commission

xc: Jean Brochi, EPA

220 Morrissey Boulevard, Boston, Massachusetts 02125
(617) 727-8470 • Fax: (617) 727-5128
www.state.ma.us/sec/mhc