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

CERTIFIED MAIL RETURN RECEIPT REQUESTED

JUN 13 2012

Angus Leary
Chief Operating Officer- Boston
Suffolk Construction Company
65 Allerton Street
Boston, MA 02119

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. One Channel Center site located at One Channel Center, South Boston, MA 02210 Suffolk County; Authorization # MAG910539

Dear Mr. Leary:

Based on the review of a Notice of Intent (NOI) submitted on behalf of AP CV CCSS Holdings LLC, by the firm Haley & Aldrich, 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 which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the checklist 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.

Please note the enclosed checklist includes parameters that exceeded Appendix III limits. The checklist also includes other parameters for which your laboratory reports indicated there was insufficient sensitivity to detect these parameters at the minimum levels established in Appendix VI of the RGP.

Also, please note that based on Part I. Section C.7., of the RGP reissuance issued on September 9, 2010, dilution factors may be available for discharges to saline waters but only with approval of the flow modeling information from the State prior to the submission of the NOI. Any other dilution factor based on estimated values such as the dilution factor of 18 proposed in your NOI is no longer accepted by EPA. The metals

included on the checklist are dilution dependent pollutants and subject to limitations based on selected dilution ranges and technology-based ceiling limitations. With the absence of dilution of freshwater into tidal water, EPA determined that the Dilution Factor Range (DFR) for each parameter for this site is in the one and five (1-5) range. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the limits for copper of 3.7 ug/L, lead of 8.5 ug/L, nickel of 8.2 ug/L, zinc of 85.6 ug/L and iron of 1,000 ug/L, are required to achieve permit compliance at your site.

Finally, please note the checklist 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. A recertification 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. You have reported that this project will terminate on July 1, 2015. 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,

Thelma Murphy

Thelma Murphy, Manager
Storm Water and Construction
Permits Section

Enclosure

cc: Kathleen Keohane, MassDEP
Paul Canavan, BWSC
Sandhya Potana, Haley & Aldrigh

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Authorization Number:	**MAG910539**
Authorization Issued:	June, 2012
Facility/Site Name:	One Channel Center
Facility/Site Address:	One Channel Center, South Boston, MA 02210, Suffolk County
	Email address of owner: dickgalvin4@aol.com
Legal Name of Operator:	Suffolk Construction Company
Operator contact name, title, and Address:	Angus Leary, Chief Operating Officer- Boston, 65 Allerton Street, Boston, MA 02119
	Email: aleary@suffolkconstruction.com
Estimated date of Completion:	July 1, 2015
Category and Sub-Category:	Category I- Petroleum Related Site Remediation and III- Contaminated Construction Dewatering. Subcategories C. Petroleum Sites with Additional Contamination, and A. General Urban Fill Sites and Known Contaminated Sites, respectively
RGP Termination Date:	September 10, 2015
Receiving Water:	Fort Point Channel

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/ML5ug/L
	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/ML 5.0mg/L
√	4. Cyanide (CN) [2, 3]	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 10ug/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
√	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
√	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/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)
√	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
	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/ ML 5ug/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
	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/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML 5ug/L,Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) [6]	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/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)
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
	a. Benzo(a) Anthracene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	b. Benzo(a) Pyrene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	c. Benzo(b)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	d. Benzo(k)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	e. Chrysene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	g. Indeno(1,2,3-cd) Pyrene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
√	h. Acenaphthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
√	j. Anthracene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene [5]	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/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) [11/12]	Minimum level=ML

			Saltwater		
	39. Antimony	5.6/ML 10			
	40. Arsenic **		36/ML 20		
	41. Cadmium **		8.9/ML 10		
	42. Chromium III (trivalent) **		100/ML 15		
	43. Chromium VI (hexavalent) **		50.3/ML 10		
√	44. Copper **		3.7/ML 15		
√	45. Lead **		8.5/ML 20		
	46. Mercury **		1.1/ML 0.2		
√	47. Nickel **		8.2/ML 20		
	48. Selenium **		71/ML 20		
	49. Silver		2.2/ML 10		
√	50. Zinc **		85.6/ML 15		
√	51. Iron	1,000/ML 20			

	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

Haley & Aldrich, Inc.
465 Medford St.
Suite 2200
Boston, MA 02129-1400

Tel: 617.886.7400
Fax: 617.886.7600
HaleyAldrich.com

10 May 2012
File No. 26135-820

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

Attention: Ms. Shelly Puleo

Subject: Notice of Intent (NOI)
Temporary Construction Dewatering
One Channel Center
Boston, Massachusetts
RTNs 3-22227, 3-27506, and 3-30569

Dear Ms. Puleo:

On behalf of our client AP CV CCSS Holdings LLC, and in accordance with the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) in Massachusetts, MAG910000, this letter submits a Notice of Intent (NOI) and the applicable documentation as required by the US Environmental Protection Agency (EPA) for temporary construction site dewatering under the RGP. Temporary dewatering is planned in support of the construction of the proposed building at One Channel Center, which is located in Boston, Massachusetts, as shown on Figure 1, Project Locus. We anticipate construction dewatering will be conducted, as necessary, during below grade excavation and planned construction.

The site currently consists of asphalt paved parking lot identified as One Channel Center and is approximately 2.72 acres in size. Iron Street is included in the site. There are no structures currently occupying the site with the exception of parking attendant's booth and a sheltered automated payment kiosk. One Channel Center Street consists of two parcels having street addresses at 1 and 2 Channel Center Street. The property at 1 Channel Center was formerly addressed at 54-74 and 76 Midway Street. The property at 2 Channel Center was formerly addressed at 169 and 171-179 A Street. The site was originally occupied by buildings used as part of Boston Wharf's shipping operations.

The site is bordered to the north by 5 Channel Center and 10 Channel Center, beyond which are other Channel Center properties; to the east by property owned by United States Postal Service, beyond which is South Boston Bypass Road; to the south by Richards Street, beyond which is the USPS parking lot at 135 A Street; and to the west by A Street, beyond which is commercial property; as shown on Figure 2, Site and Subsurface Exploration Location Plan. The site is generally level with ground surface elevations generally ranging from El. 15 to 16 ft Boston City Base (BCB). Groundwater at the site is present at a depth ranging from 4 to 10 ft below ground surface (bgs).

Site History

Prior to the mid-1800s the Site consisted of tidal mudflats. The site was filled between 1841 and 1866 and was originally used as part of the Boston Wharf Company shipping operations. Since the late 1800's the site has been developed with several structures for a variety of uses. The structures were razed in the early 2000s and the site was then paved to its current condition as a surface parking lot. It is likely that remnant foundations remain within the limits of the site. Based on review of former Building Permit records, the former structures were supported on wood piles with granite bock pile caps (top of piles cut-off at El. 7 and basement at El. 12).

Proposed Construction

The proposed development will consist of an approximately 525,000 square foot, 11-story office building. Current design includes ground floor level at approximately El. 16.6. No below grade space is planned for the building. The plan configuration of the proposed building is shown on Figure 2.

Regulatory Background

There are 3 RTNs associated with the Site (RTN 3-22227, 3-27506, and 3-30569). Response Action Outcome (RAO) statements have been submitted for RTN 3-22227, Class C-2 on 13 April 2012 and RTN 3-27506, Class A-2 in July 2010. RTN 3-30569 is associated with the presence of Total Petroleum Hydrocarbons (TPH) in site soils at concentrations exceeding the Upper Concentration Limits (UCL). RTN 3-30569 was linked to RTN 3-22227 on 13 April 2012. A Phase IV Remedy Implementation Plan will be submitted to MassDEP for the management of contaminated soil and groundwater prior to the start of proposed construction in July 2012.

Groundwater Sampling

In support of the NOI, one unfiltered groundwater sample was obtained from observation well 2CC-4 (OW), on 20 March 2012. The groundwater sample was submitted to Alpha Analytical, Inc. of Westborough, Massachusetts (Alpha Analytical) for analysis for NPDES permit parameters including VOCs, SVOCs, PAHs, metals, TPH, pesticides, PCBs, Total Suspended Solids (TSS), chloride, total cyanide, total phenolics and total residual chlorine. The analytical results for the groundwater sample identified concentrations of total copper, iron, lead, nickel, zinc, cyanide, total SVOCs, and TSS above applicable NPDES RGP Effluent Limits but below applicable MCP RCGW-2 Reportable Concentrations with the possible exception of lead. Additional sampling and testing was conducted on a field filtered sample to determine the dissolved concentration of lead in groundwater subject to the Reporting criteria. The results of the filtered sample indicate that the concentration of dissolved lead in groundwater is below the applicable Reportable Concentration. The results of water quality testing conducted for this NOI are summarized in Table I. The location of the observation well is shown on Figure 2.

Dewatering System and Off-site Discharge

Prior to discharge, collected water will be routed through a oil/water separator and sedimentation tank with bag filters, to remove oil sheens and suspended solids and un-dissolved chemical constituents. Supplemental pretreatment is anticipated to be required to meet discharge criteria as shown in the Proposed Treatment System Schematic included in Figure 3. Supplemental pretreatment is anticipated to

remove cyanide, SVOCs, and iron from the water. Construction dewatering under this RGP NOI will include piping and discharging to storm drains near the site. The storm drains discharge into the Fort Point Channel. The proposed discharge route is shown on Figure 2.

During construction, it will be necessary to perform temporary dewatering to control surface water runoff from precipitation, groundwater seepage and construction-generated water to enable construction in-the-dry. Construction and construction dewatering activities are currently anticipated to begin as early as 1 July 2012. On average, we estimate effluent discharge rates of about 40 to 50 gallons per minute (gpm) or less, with occasional peak flows of approximately 100 gpm during significant precipitation events. Temporary dewatering will be conducted from sumps located in excavations.

Appendices

The completed "Suggested Notice of Intent" (NOI) form as provided in the RGP is enclosed in Appendix A. The Site is currently owned by Channel Center Holdings VAF, LLC and is to be acquired by AP CV CCSS Holdings LLC. The site operator is Suffolk Construction Company. Haley & Aldrich will monitor the Contractor's dewatering activities on behalf of AP CV CCSS Holdings LLC. A Best Management Practices Plan (BMPP), which outlines the proposed discharge operations covered under the RGP, is included in Appendix B. Appendices C and D include National Register of Historic Places and Endangered Species Act Documentation, respectively. Appendix E provides the BWSC Permit Application to be submitted separately to the Boston Water and Sewer Commission. A copy of the groundwater testing laboratory data reports from samples obtained by Haley & Aldrich in March 2012 are provided in Appendix F.

Dilution Factor Application for Metals

A Dilution Factor (DF) was calculated for the detected levels of total metals greater than the applicable effluent limits. The DF is applicable to iron, and the calculated DF was used to find the appropriate Dilution Range concentrations for these metals. The DF was calculated using the following equation:

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

where Q_d is the maximum discharge flow rate, assumed to be 100 gallons per minute (GPM) or approximately 0.22 cubic feet per second (cfs), and Q_s is the receiving water flow rate, minimum for 7 consecutive days with a recurrence interval of 10 years. Per email correspondence with Mr. George Papadopoulos of the United States Environmental Protection Agency (EPA) on 17 August 2006, it was determined that the Dilution Factor for the discharge to the Fort Point Channel in Boston has been calculated for submission of previous Remediation General Permit. Mr. Papadopoulos informed Kenneth Alepidis of Haley & Aldrich that the calculation determined by others and approved by the EPA, would be appropriate for use for projects discharging into the Fort Point Channel. The Dilution Factor had been calculated to 18.

Total Recoverable Metals Limitations

The Total Recoverable Metal Limitations at selected Dilution Factors have not been provided in the RGP for saline waters. In the email correspondence on 17 August 2006, Mr. Papadopoulos informed Haley & Aldrich that the Total Recoverable Metal Limitations at selected Dilution Factors could be calculated by

multiplying the saline water metals concentration limits by the calculated Dilution Factor for the proposed discharge.

Closing

Thank you very much for your consideration of this NOI. Please feel free to contact us should you wish to discuss the information contained herein or if you need additional information.

Sincerely yours,
HALEY & ALDRICH, INC.

P. Sandhya

Sandhya Potana
Assistant Project Manager

Keith E. Johnson, P.E., LSP
Vice President

Attachments:

Table I – Summary of Groundwater Quality Data
Figure 1 – Site Locus
Figure 2 – Proposed Dewatering Effluent Discharge Route
Figure 3 – Proposed Treatment System Schematic
Appendix A – Notice of Intent (NOI) for Remediation General Permit (RGP)
Appendix B – Best Management Practices Plan (BMPP)
Appendix C – Endangered Species Act Documentation
Appendix D – National Register of Historic Places and Massachusetts Historical Commission Documentation
Appendix E – Copy of BWSC Permit Application
Appendix F – Laboratory Data Reports

c: AP CV CCSS Holdings LLC; Attn: Richard A. Galvin; Elisha Long; Mark MacRae
Edwards Wildman Palmer LLP; Attn: Rebecca A. Lee; Robert Curry
Suffolk Construction Company; Attn: Angus Leary; James Grossmann

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Tables

Table I
Summary of Groundwater Quality Data
One Channel Center
Boston, Massachusetts
File No: 26135-800

Lab Sample ID	CAS	2008	NPDES RGP	L1204697-01
Sample Name	Number	RCGW-2	Effluent	2CC-4
Sample Date		Reportable	Discharge	20-MAR-12
Sample Type		Concentration	Criteria	Grab
Sample Depth (ft.)		(mg/l)		NA
VOCs by GC/MS (mg/l)				
1,2,4-Trimethylbenzene	95-63-6	100	-	0.0055
Carbon disulfide	75-15-0	10	-	0.018
Isopropylbenzene	98-82-8	100	-	0.00064
Naphthalene	91-20-3	1	0.02	0.006
n-Propylbenzene	103-65-1	10	-	0.00081
Benzene	71-43-2	2	BTEX	0.0036
Toluene	108-88-3	40	BTEX	0.0014
Ethylbenzene	100-41-4	5	BTEX	0.0038
o-Xylene	95-47-6	5	BTEX	0.0014
p/m-Xylene	106-42-3/108-38-3	5	BTEX	0.0094
BTEX	NA	5	0.1	0.0196
Total VOCs	NA	NA	NA	0.05055
VOCs by GC/MS-SIM (mg/l)				
1,4-Dioxane	123-91-1	6	Monitor only	ND(0.0015)
Total VOCs	NA	NA	NA	ND
SVOCs by GC/MS (mg/l)				
2,4-Dimethylphenol	105-67-9	40	-	0.0099
2-Methylphenol	95-48-7	50	-	0.0061
Total SVOCs (mg/l)	NA	NA	0.01	**0.016**
SVOCs by GC/MS-SIM (mg/l)				
1-Methylnaphthalene	90-12-0	NA	-	0.00089
2-Methylnaphthalene	91-57-6	2	-	0.00035
Acenaphthene	83-32-9	6	-	0.00046
Anthracene	120-12-7	0.03	-	0.0002
Naphthalene	91-20-3	1	0.02	0.0026
Total SVOCs (mg/l)	NA	NA	0.01	0.0045
PCBs (mg/l)				
Total PCBs	NA	NA	0.000000064	ND
Total Metals (mg/l)				
Antimony	7440-36-0	8	0.0056	0.0015
Arsenic	7440-38-2	0.9	0.036	0.0097
Cadmium	7440-43-9	0.004	0.0089	ND(0.0001)
Chromium	7440-47-3	0.3	0.1	0.033
Copper	7440-50-8	100	0.0037	**0.0159**
Iron	7439-89-6	NA	1	**8.8**
Lead	7439-92-1	0.01	0.0085	**0.0113**
Mercury	7439-97-6	0.02	0.0011	ND(0.0001)
Nickel	7440-02-0	0.2	0.0082	**0.0192**
Selenium	7782-49-2	0.1	0.071	ND(0.0005)
Silver	7440-22-4	0.007	0.0022	0.0004
Zinc	7440-66-6	0.9	0.0856	**0.0874**

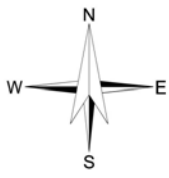
Table I
Summary of Groundwater Quality Data
One Channel Center
Boston, Massachusetts
File No: 26135-800

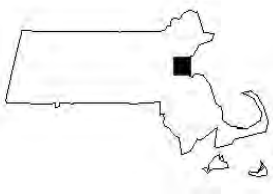
Lab Sample ID	CAS	2008	NPDES RGP	L1204697-01
Sample Name	Number	RCGW-2	Effluent	2CC-4
Sample Date		Reportable	Discharge	20-MAR-12
Sample Type		Concentration	Criteria	Grab
Sample Depth (ft.)		(mg/l)		NA
Dissolved Metals (mg/l)				
Antimony	7440-36-0	8	0.0056	0.0016
Arsenic	7440-38-2	0.9	0.036	0.0024
Cadmium	7440-43-9	0.004	0.0089	ND(0.0001)
Chromium	7440-47-3	0.3	0.1	0.0026
Copper	7440-50-8	100	0.0037	ND(0.00025)
Iron	7439-89-6	NA	1	**7.8**
Lead	7439-92-1	0.01	0.0085	ND(0.00025)
Mercury	7439-97-6	0.02	0.0011	ND(0.0001)
Nickel	7440-02-0	0.2	0.0082	0.0018
Selenium	7782-49-2	0.1	0.071	ND(0.0005)
Silver	7440-22-4	0.007	0.0022	ND(0.0002)
Zinc	7440-66-6	0.9	0.0856	0.0104
Pesticides by GC (mg/l)				
1,2-Dibromoethane	106-93-4	0.002	0.00005	ND(0.000005)
General Chemistry (mg/l)				
Solids, Total Suspended	NONE	NA	30	**370**
Chloride	16887-00-6	NA	monitor only	1400
Cyanide, Total	57-12-5	0.03	0.0052	**0.007**
Chlorine, Total Residual	NONE	NA	0.011	**ND(1)**
TPH	NONE	5	5	ND(2)
Phenolics, Total	NONE	NA	0.3	ND(0.075)
Chromium, Hexavalent	18540-29-9	0.3	0.0503	ND(0.005)

NOTES & ABBREVIATIONS:
NA: Not Applicable
-: Not Analyzed
ND: Not Detected. Number in parentheses is one-half the laboratory reporting limit.
VOCs: Volatile Organic Compounds
SVOCs: Semivolatile Organic Compounds
TPH: Total Petroleum Hydrocarbons
PCBs: Polychlorinated Biphenyls
1. Only compounds detected at least once are shown.
2. Bold italicized values indicate an exceedance of applicable NPDES RGP Effluent Limi

Figures

SITE COORDINATES:42°20'42"N 71°3'6"W





U.S.G.S. QUADRANGLE: BOSTON SOUTH, MA

HALEY & ALDRICH

ONE CHANNEL CENTER
SOUTH BOSTON, MASSACHUSETTS

PROJECT LOCUS

SCALE: 1:24,000
MAY 2012

FIGURE 1

26135-751 1.PDF

Potential Discharge Points

Discharge into Fort Point Channel at Outfall BOS073

APPROXIMATE LOCATION OF FORMER GASOLINE USTs

APPROXIMATE LOCATION OF PROPOSED 11-STORY OFFICE BUILDING

APPROXIMATE LOCATION OF PROPOSED 9-STORY GARAGE

APPROXIMATE LIMITS OF CLASS C-RAO SITE (FORMERLY 76 MIDWAY STREET)

EPH/UCL AREA 1

EPH/UCL AREA 2

EPH/UCL AREA 3

CHANNEL STREET 08-4 POST TREAT

15,000 GALLON GASOLINE FUEL DISPENSING ISLAND

FORMER 20,000 GALLON DIESEL UST (REMOVED MAY 2010)

APPROXIMATE LIMITS OF AUL RTN 3-1918 CLASS A-3 RAO (MAY 2009)

PARCEL II
BOOK 5832 PAGE 146
BOOK 5843 PAGE 306
AREA = 109,073 SQ. FT. (2.504 ACRES)
(DOES NOT INCLUDE RICHARDS STREET)

PARCEL I
AREA = 39,746 SQ. FT. (0.912 ACRES)
(LOT A)

PARCEL III
46,723 SQ. FT.
(1.073 ACRES)
(LOT D)

LOT 10
AREA=72,573 S.F.
1.666 ACRES

PORTION OF PARCEL 60-LT-1

"A" STREET

WEST FIRST STREET (PUBLIC – 40' WIDE)

RICHARDS STREET

IRON STREET

WEST CONNECTOR EASTMENT

LEGEND:

CHANNEL STREET 08-4 POST TREAT	DESIGNATION AND APPROXIMATE LOCATION OF TEST PIT EXCAVATED BY J.F. WHITE ON 20 MAY 2008 FOLLOWING TCLP TREATMENT
HA08-4N	DESIGNATION AND APPROXIMATE LOCATION OF TEST PIT EXCAVATED BY J.F. WHITE ON 22 APRIL 2008
GP-1	DESIGNATION AND APPROXIMATE LOCATION OF PROPOSED GEOPROBE
GCC-1(OW)	DESIGNATION AND APPROXIMATE LOCATION OF PROPOSED TEST BORING
HA08-2A	DESIGNATION AND APPROXIMATE LOCATION OF ENVIRONMENTAL GEOPROBE COMPLETED BY GEOLOGIC IN DECEMBER 2008
HA08-1	DESIGNATION AND APPROXIMATE LOCATION OF ENVIRONMENTAL GEOPROBE COMPLETED BY NEW HAMPSHIRE BORING IN JULY 2008
SG-1 △	DESIGNATION AND APPROXIMATE LOCATION OF SOIL-GAS SAMPLING COMPLETED ON 27 JUNE 2008
HA08-1	DESIGNATION AND APPROXIMATE LOCATION OF ENVIRONMENTAL TEST BORING DRILLED BY GEOLOGIC AND MONITORED BY HALEY & ALDRICH ON 25 JANUARY 2008
HSA-MW-3	DESIGNATION AND APPROXIMATE LOCATION OF TEST BORINGS COMPLETED BY GEOSEARCH, INC. IN APRIL 2006
HA-101(OW)	DESIGNATION AND APPROXIMATE LOCATION OF SOIL BORING DRILLED ON SEPTEMBER 2005
W1	DESIGNATION AND APPROXIMATE LOCATION OF CONFIRMATORY SAMPLE TAKEN ON NOVEMBER 2002
MW-2	DESIGNATION AND APPROXIMATE LOCATION OF MONITORING WELL INSTALLED DURING 1997 THROUGH 1999
SB-1	DESIGNATION AND APPROXIMATE LOCATION OF SOIL BORING DRILLED DURING 1997 THROUGH 1999
MW-3	DESIGNATION AND APPROXIMATE LOCATION OF MONITORING WELL INSTALLED DURING 1997 THROUGH 1999
SBI-SB-35	DESIGNATION AND APPROXIMATE LOCATION OF TEST BORINGS INSTALLED BY OTHER CONSULTANTS IN 1992 (ASSOCIATED WITH CENTRAL ARTERY/TUNNEL (CA/T) PROJECT) AND REFERENCED IN MASSDEP LETTER, DATED 20 JANUARY 2011
(OW)	INDICATES OBSERVATION WELL INSTALLED IN COMPLETED EXPLORATION

NOTES:

1. BASE PLAN TAKEN FROM ELECTRONIC CAD FILES TITLED "12257-TOPO-submitted.dwg AND 13009.dwg", DATED 20 DECEMBER 2010, PREPARED BY FELDMAN PROFESSIONAL LAND SURVEYORS.
2. ELEVATIONS SHOWN REFER TO BOSTON CITY BASE DATUM (BCB).
3. LOCATIONS OF SUBSURFACE EXPLORATIONS WERE DETERMINED BY FIELD MEASUREMENTS FROM EXISTING SITE FEATURES AND ARE CONSIDERED APPROXIMATE.

0 60 120
SCALE IN FEET

HALEY & ALDRICH
ONE CHANNEL CENTER
SOUTH BOSTON, MASSACHUSETTS

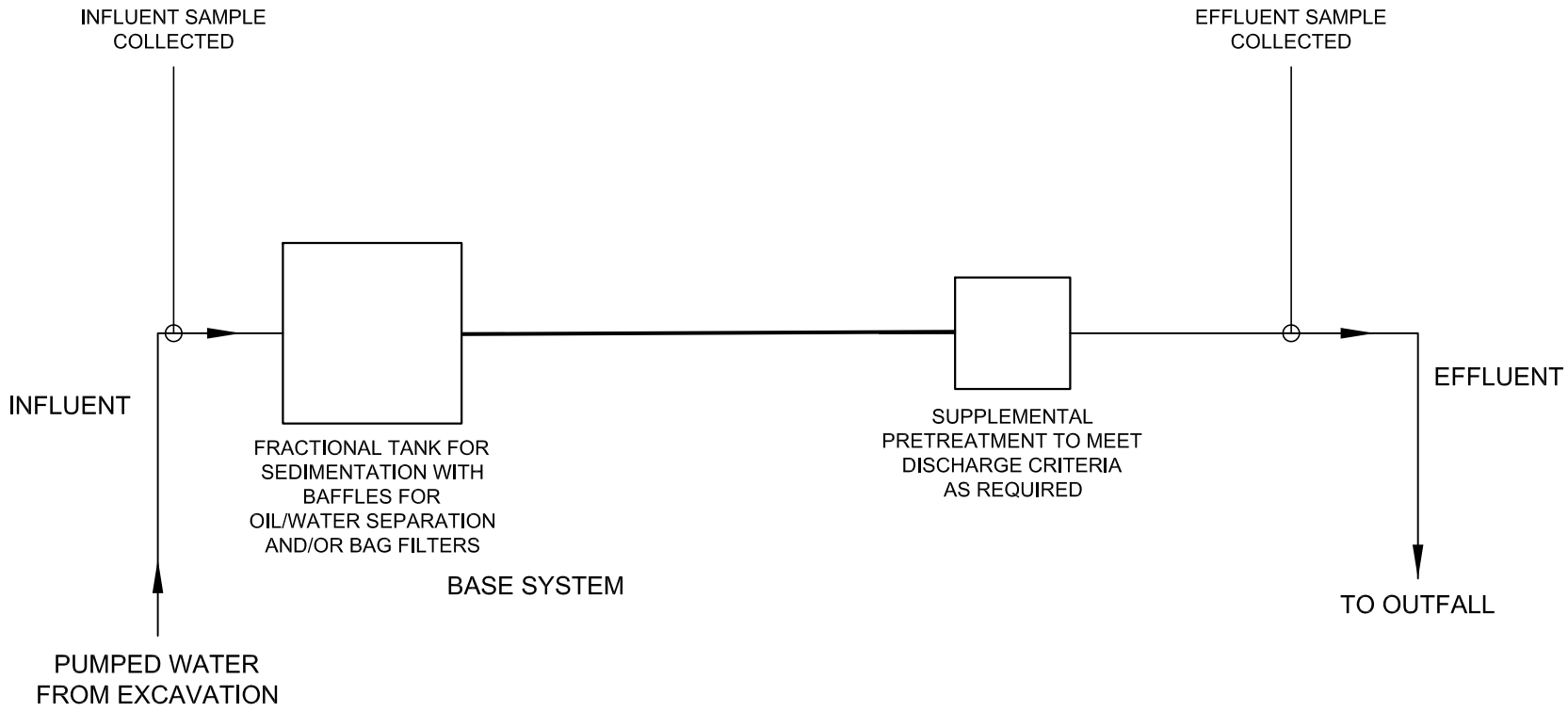
SITE AND SUBSURFACE EXPLORATION LOCATION PLAN

SCALE: AS SHOWN
MAY 2012

FIGURE 2

J:\GRAPHICS\26135\26135-810-B096.DWG

J:\GRAPHICS\37646\37646-140-A023.DWG



LEGEND:

DIRECTION OF FLOW

NOTE:

1. DETAILS OF TREATMENT SYSTEM MAY VARY FROM SYSTEM INDICATED ABOVE. SPECIFIC MEANS AND METHODS OF TREATMENT TO BE SELECTED BY CONTRACTOR. WATER WILL BE TREATED TO MEET REQUIRED EFFLUENT STANDARDS.

HALEY & ALDRICH

ONE CHANNEL CENTER
SOUTH BOSTON, MASSACHUSETTS

PROPOSED TREATMENT SYSTEM SCHEMATIC

SCALE: NONE
APRIL 2012

FIGURE 3

APPENDIX A

Notice of Intent (NOI) for Remediation General Permit (RGP)

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**: ONE CHANNEL CENTER		**Facility/site** mailing address:		
Location of **facility/site**: longitude: 71°3'06" W latitude: 42°20'42" N	Facility SIC code(s): 7520	Street: One Channel Center		
b) Name of **facility/site owner:** AP CV CCSS Holdings LLC		Town: South Boston		
Email address of facility/site owner: dickgalvin4@aol.com		State: MA	Zip: 02210	County: Suffolk
Telephone no. of facility/site **owner**: 203.545.6660				
Fax no. of facility/site **owner**: 617.423.6270		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ○ 3. Private ◉ 4. Other ○ if so, describe:		
Address of **owner** (if different from site):				
Street: 10 Channel Center Street, Suite 500				
Town: Boston	State: MA	Zip: 02210	County: Suffolk County	
c) Legal name of **operator**:		**Operator** telephone no: 617-517-4520		
Suffolk Construction Company		**Operator** fax no.: 617-541-2106	**Operator** email: aleary@suffolkconstruction.com	
Operator contact name and title: Angus Leary, Chief Operating Officer - Boston				
Address of **operator** (if different from owner):		Street: 65 Allerton Street		
Town: Boston	State: MA	Zip: 02119	County: Suffolk	

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

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

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

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

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

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:

Temporary Construction Dewatering.

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: 0.22 Is maximum flow a **design value**? Y ○ N ◉
Average flow (include units): 0.11 Is average flow a design value or estimate? estimate

3) Latitude and longitude of each discharge within 100 feet:
pt.1: lat. 71305 long. 422042 pt.2: lat. 71306 long. 422042;
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):

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

c) Expected dates of discharge (mm/dd/yy): start 7/1/2012 end 7/1/2015

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

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	2540D	5000	370000		370000	
2. Total Residual Chlorine (TRC)		☒	☐	1	GRAB	4500CL-D	20	ND		ND	
3. Total Petroleum Hydrocarbons (TPH)		☒	☐	1	GRAB	1664A	4000	ND		ND	
4. Cyanide (CN)	57125	☐	☒	1	GRAB	4500CN-CE	5	7		7	
5. Benzene (B)	71432	☐	☒	1	GRAB	8260B	1	3.6		3.6	
6. Toluene (T)	108883	☐	☒	1	GRAB	8260B	1.5	1.4		1.4	
7. Ethylbenzene (E)	100414	☐	☒	1	GRAB	8260B	1	3.8		3.8	
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☐	☒	1	GRAB	8260B	2	10.8		10.8	
9. Total BTEX [2]	n/a	☐	☒	1	GRAB	8260B	NA	19.6		19.6	
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	1	GRAB	8260B	4	ND		ND	
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	1	GRAB	8260B	2	ND		ND	
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	1	GRAB	8260B	20	ND		ND	

***** 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	☒	☐	1	GRAB	8260B	4	ND		ND	
14. Naphthalene	91203	☐	☒	1	GRAB	8260B	5	6		6	
15. Carbon Tetrachloride	56235	☒	☐	1	GRAB	8260B	1	ND		ND	
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	1	GRAB	8260B	5	ND		ND	
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	1	GRAB	8260B	5	ND		ND	
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	1	GRAB	8260B	5	ND		ND	
18a. Total dichlorobenzene		☒	☐	1	GRAB	8260B	NA	ND		ND	
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	1	GRAB	8260B	1.5	ND		ND	
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	1	GRAB	8260B	1	ND		ND	
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	1	GRAB	8260B	1	ND		ND	
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	1	GRAB	8260B	1	ND		ND	
23. Methylene Chloride	75092	☒	☐	1	GRAB	8260B	6	ND		ND	
24. Tetrachloroethene (PCE)	127184	☒	☐	1	GRAB	8260B	1	ND		ND	
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	1	GRAB	8260B	1	ND		ND	
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	1	GRAB	8260B	1.5	ND		ND	
27. Trichloroethene (TCE)	79016	☒	☐	1	GRAB	8260B	1	ND		ND	

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	8260B	2	ND		ND	
29. Acetone	67641	☒	☐	1	GRAB	8260B	10	ND		ND	
30. 1,4 Dioxane	123911	☒	☐	1	GRAB	8260B	500	ND		ND	
31. Total Phenols	108952	☒	☐	1	GRAB	420.1	30	ND		ND	
32. Pentachlorophenol (PCP)	87865	☒	☐	1	GRAB	8270C	10	ND		ND	
33. Total Phthalates (Phthalate esters) [4]		☒	☐	1	GRAB	8270C	NA	ND		ND	
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	1	GRAB	8270C	3	ND		ND	
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☐	☐	1	GRAB						
a. Benzo(a) Anthracene	56553	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
b. Benzo(a) Pyrene	50328	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
c. Benzo(b)Fluoranthene	205992	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
d. Benzo(k)Fluoranthene	207089	☒	☐	1	GRAB	8720C-SIM	0.2	ND		ND	
e. Chrysene	21801	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
f. Dibenzo(a,h)anthracene	53703	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☐	☐	1	GRAB						

[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	8270C-SIM	0.2	0.46		0.46	
i. Acenaphthylene	208968	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
j. Anthracene	120127	☐	☒	1	GRAB	8270C-SIM	0.2	0.2		0.2	
k. Benzo(ghi) Perylene	191242	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
l. Fluoranthene	206440	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
m. Fluorene	86737	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
n. Naphthalene	91203	☐	☒	1	GRAB	8270C-SIM	0.2	2.6		2.6	
o. Phenanthrene	85018	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
p. Pyrene	129000	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	1	GRAB	608	0.25	ND		ND	
38. Chloride	16887006	☐	☒	1	GRAB	300.0	50000	1400000		1400000	
39. Antimony	7440360	☐	☒	1	GRAB	6020	1	1.6		1.6	
40. Arsenic	7440382	☐	☒	1	GRAB	6020	1	2.4		2.4	
41. Cadmium	7440439	☒	☐	1	GRAB	6020	0.4	ND		ND	
42. Chromium III (trivalent)	16065831	☐	☒	1	GRAB	6020	1	2.6		2.6	
43. Chromium VI (hexavalent)	18540299	☒	☐	1	GRAB	3500CR-D	10	ND		ND	
44. Copper	7440508	☒	☐	1	GRAB	6020	1	ND		ND	
45. Lead	7439921	☒	☐	1	GRAB	6020	1	ND		ND	
46. Mercury	7439976	☒	☐	1	GRAB	245.1	0.2	ND		ND	
47. Nickel	7440020	☐	☒	1	GRAB	6020	1	1.8		1.8	
48. Selenium	7782492	☒	☐	1	GRAB	6020	2	ND		ND	
49. Silver	7440224	☒	☐	1	GRAB	6020	0.8	ND		ND	
50. Zinc	7440666	☐	☒	1	GRAB	6020	10	10.4		10.4	
51. Iron	7439896	☐	☒	1	GRAB	200.7	50	7800		7800	
Other (describe):		☐	☐								

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? 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: Iron DF: 18 Metal: DF: Metal: DF: Metal: DF: 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:

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:

See Attached Figure 3

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):	Additional Pretreatment as necessary to meet NPDES RGP Discharge Criteria.		

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 50 gpm Maximum flow rate of treatment system 100 gpm
Design flow rate of treatment system _____ gpm

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

NA

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

a) Identify the discharge pathway:	Direct 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:

Effluent will be discharged to storm drains located near the site which discharge into the Fort Point Channel at Outfall BOS073

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 SB

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water Please see attachment 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)?
Fecal Coliform; PCBs in fish tissue
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:	One Channel Center (1 Iron Street, South Boston, MA)
Operator signature:	
Printed Name &Title:	Richard A. Galvin
Date:	

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:	One Channel Center (1 Iron Street, South Boston, MA)
Operator signature:	
Printed Name &Title:	Angus Leary, Chief Operating Officer-Boston
Date:	5-9-2012

APPENDIX B

Best Management Practices Plan (BMPP)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
REMEDIATION GENERAL PERMIT
TEMPORARY CONSTRUCTION DEWATERING
ONE CHANNEL CENTER
SOUTH BOSTON, MASSACHUSETTS

Best Management Practices Plan

A Notice of Intent for a Remediation General Permit (RGP) under the National Pollutant Discharge Elimination System (NPDES) has been submitted to the US Environmental Protection Agency (EPA) in anticipation of temporary construction dewatering planned to occur during the proposed construction at One Channel Center in South Boston, Massachusetts. This Best Management Practices Plan (BMPP) has been prepared as an Appendix to the RGP and will be posted at the site during the time period that temporary construction dewatering is occurring at the site.

Water Treatment and Management

Construction dewatering will be conducted using a combination of drainage ditches and sumps located inside the excavation. The treatment system will be designed by the Contractor. Prior to discharge, collected water will likely be routed through an oil water separator, sedimentation tank, and bag filters to remove oil sheen, suspended solids, and un-dissolved chemical constituents. The effluent will then flow through any necessary treatment systems and discharge through hoses to storm drains located along Channel Center Street, which discharges to the Fort Point Channel. Dewatering effluent treatment may consist of granular activated carbon (GAC), ion exchange, or precipitation, as required.

Discharge Monitoring and Compliance

Regular sampling and testing will be conducted by the Contractor at the treated effluent as required by the RGP. This includes chemical testing required within the first month of discharging, and the monthly testing to be conducted through the end of the scheduled discharge.

Monitoring will include checking the condition of the treatment system, assessing the need for treatment system adjustments based on monitoring data, observing and recording daily flow rates and discharge quantities, and verifying the flow path of the discharged effluent.

The total monthly flow will be monitored by checking and documenting the flow through the flow meter to be installed on the system. Flow will be maintained below the "system design flow" by regularly monitoring flow and adjusting the amount of construction dewatering as needed.

Monthly monitoring reports will be compiled and maintained at the site.

System Maintenance

A number of methods will be used to minimize the potential for violations for the term of this permit. Scheduled regular maintenance of the treatment system will be conducted to verify proper operation. Regular maintenance will include checking the condition of the treatment system equipment such as the fractionization tanks, filters, hoses, pumps, and flow meters. Equipment will be monitored daily for potential issues or unscheduled maintenance requirements.

Employees who have direct or indirect responsibility for ensuring compliance with the RGP will be trained by the Operator.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
REMEDIATION GENERAL PERMIT
TEMPORARY CONSTRUCTION DEWATERING
ONE CHANNEL CENTER
SOUTH BOSTON, MASSACHUSETTS

Miscellaneous Items

Due to the nature of the excavation, erosion control and the nature of the site and surrounding infrastructure, it is not anticipated that there will be any run off into the site from other sources, as well as no run off from the site.

Erosion control will be covered in the project specifications. Site security for the treatment system can be covered within the overall site security plan.

No adverse affects of designated water uses of surrounding surface water bodies is anticipated. The nearest surface water body, Fort Point Channel is located approximately 800 ft. to the northwest of the site. As mentioned earlier, the discharged effluent will be pumped directly to storm drains located near the site and into existing below grade infrastructure.

Management of Treatment System Materials

Groundwater at the site has cyanide and iron at concentrations below the applicable MCP RCGW-2 criteria but above the NPDES RGP criteria. Dewatering effluent will be pumped directly to the treatment system from the excavation with use of hoses and sumps to minimize handling. The contractor will establish staging areas on the site for any equipment or materials storage which may be possible sources of pollution away from any dewatering activities.

Sediment from the fractionalization tank used in the treatment system will be characterized and disposed of as soil at an appropriate receiving facility in accordance with applicable laws and regulations. If used, GAC and/or ion exchange resin may be recycled and/or removed from the site to an appropriate receiving facility. Bag filters, if used, will be placed in drums and manifested for off-site disposal.

APPENDIX C

Endangered Species Act Documentation

MASSACHUSETTS AREAS OF CRITICAL ENVIRONMENTAL CONCERN
June 2009

Total Approximate Acreage: 268,000 acres
Approximate acreage and designation date follow ACEC names below.

Bourne Back River
(1,850 acres, 1989) Bourne

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

Cedar Swamp
(1,650 acres, 1975) Hopkinton and Westborough

Central Nashua River Valley
(12,900 acres, 1996) Bolton, Harvard, Lancaster, and Leominster

Cranberry Brook Watershed
(1,050 acres, 1983) Braintree and Holbrook

Ellisville Harbor
(600 acres, 1980) Plymouth

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

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

Great Marsh (originally designated as Parker River/Essex Bay)
(25,500 acres, 1979) Essex, Gloucester, Ipswich, Newbury, and Rowley

Herring River Watershed
(4,450 acres, 1991) Bourne and Plymouth

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

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

Inner Cape Cod Bay
(2,600 acres, 1985) Brewster, Eastham, and Orleans

Kampoosa Bog Drainage Basin
(1,350 acres, 1995) Lee and Stockbridge

Karner Brook Watershed
(7,000 acres, 1992) Egremont and Mount Washington

Miscoe, Warren, and Whitehall Watersheds
(8,700 acres, 2000) Grafton, Hopkinton, and Upton

Neponset River Estuary
(1,300 acres, 1995) Boston, Milton, and Quincy

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

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

Pocasset River
(160 acres, 1980) Bourne

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

Sandy Neck Barrier Beach System
(9,130 acres, 1978) Barnstable and Sandwich

Schenob Brook Drainage Basin
(13,750 acres, 1990) Mount Washington and Sheffield

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

Three Mile River Watershed
(14,280 acres, 2008) Dighton, Norton, Taunton

Upper Housatonic River
(12,280 acres, 2009) Lee, Lenox, Pittsfield, Washington

Waquoit Bay
(2,580 acres, 1979) Falmouth and Mashpee

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

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

Weymouth Back River
(800 acres, 1982) Hingham and Weymouth

ACEC acreages above are based on MassGIS calculations and may differ from numbers originally presented in designation documents and other ACEC publications due to improvements in accuracy of GIS data and boundary clarifications. Listed acreages have been rounded to the nearest 50 or 10 depending on whether boundary clarification has occurred. For more information please see, http://www.mass.gov/dcr/stewardship/acec/aboutMaps.htm.

Towns with ACECs within their Boundaries June 2009

TOWN	ACEC
Ashby	Squannassit
Ayer	Petapawag
	Squannassit
Barnstable	Sandy Neck Barrier Beach System
Bolton	Central Nashua River Valley
Boston	Rumney Marshes
	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary
Bourne	Pocasset River
	Bourne Back River
	Herring River Watershed
Braintree	Cranberry Brook Watershed
Brewster	Pleasant Bay
	Inner Cape Cod Bay
Bridgewater	Hockomock Swamp
Canton	Fowl Meadow and Ponkapoag Bog
Chatham	Pleasant Bay
Cohasset	Weir River
Dalton	Hinsdale Flats Watershed
Dedham	Fowl Meadow and Ponkapoag Bog
Dighton	Three Mile River Watershed
Dunstable	Petapawag
Eastham	Inner Cape Cod Bay
	Wellfleet Harbor
Easton	Canoe River Aquifer
	Hockomock Swamp
Egremont	Karner Brook Watershed
Essex	Great Marsh
Falmouth	Waquoit Bay
Foxborough	Canoe River Aquifer
Gloucester	Great Marsh
Grafton	Miscoe-Warren-Whitehall Watersheds
Groton	Petapawag
	Squannassit
Harvard	Central Nashua River Valley
	Squannassit
Harwich	Pleasant Bay
Hingham	Weir River
	Weymouth Back River
Hinsdale	Hinsdale Flats Watershed
Holbrook	Cranberry Brook Watershed
Hopkinton	Miscoe-Warren-Whitehall Watersheds
	Cedar Swamp
Hull	Weir River
Ipswich	Great Marsh
Lancaster	Central Nashua River Valley
	Squannassit
Lee	Kampoosa Bog Drainage Basin
	Upper Housatonic River
Lenox	Upper Housatonic River
Leominster	Central Nashua River Valley
Lunenburg	Squannassit
Lynn	Rumney Marshes
Mansfield	Canoe River Aquifer
Mashpee	Waquoit Bay
Melrose	Golden Hills
Milton	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary

TOWN	ACEC
Mt. Washington	Karner Brook Watershed
	Schenob Brook
Newbury	Great Marsh
Norton	Hockomock Swamp
	Canoe River Aquifer
	Three Mile River Watershed
Norwood	Fowl Meadow and Ponkapoag Bog
Orleans	Inner Cape Cod Bay
	Pleasant Bay
Pepperell	Petapawag
	Squannassit
Peru	Hinsdale Flats Watershed
Pittsfield	Upper Housatonic River
Plymouth	Herring River Watershed
	Ellisville Harbor
Quincy	Neponset River Estuary
Randolph	Fowl Meadow and Ponkapoag Bog
Raynham	Hockomock Swamp
Revere	Rumney Marshes
Rowley	Great Marsh
Sandwich	Sandy Neck Barrier Beach System
Saugus	Rumney Marshes
	Golden Hills
Sharon	Canoe River Aquifer
	Fowl Meadow and Ponkapoag Bog
Sheffield	Schenob Brook
Shirley	Squannassit
Stockbridge	Kampoosa Bog Drainage Basin
Taunton	Hockomock Swamp
	Canoe River Aquifer
	Three Mile River Watershed
Truro	Wellfleet Harbor
Townsend	Squannassit
Tyngsborough	Petapawag
Upton	Miscoe-Warren-Whitehall Watersheds
Wakefield	Golden Hills
Washington	Hinsdale Flats Watershed
	Upper Housatonic River
Wellfleet	Wellfleet Harbor
W Bridgewater	Hockomock Swamp
Westborough	Cedar Swamp
Westwood	Fowl Meadow and Ponkapoag Bog
Weymouth	Weymouth Back River
Winthrop	Rumney Marshes

.

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Barnstable	Piping Plover	Threatened	Coastal Beaches	All Towns
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Chatham
	Sandplain gerardia	Endangered	Open areas with sandy soils.	Sandwich and Falmouth.
	Northern Red-bellied cooter	Endangered	Inland Ponds and Rivers	Bourne (north of the Cape Cod Canal)
Berkshire	Bog Turtle	Threatened	Wetlands	Egremont and Sheffield
Bristol	Piping Plover	Threatened	Coastal Beaches	Fairhaven, Dartmouth, Westport
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Fairhaven, New Bedford, Dartmouth, Westport
	Northern Red-bellied cooter	Endangered	Inland Ponds and Rivers	Raynham and Taunton
Dukes	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Piping Plover	Threatened	Coastal Beaches	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Aquinnah and Chilmark
	Sandplain gerardia	Endangered	Open areas with sandy soils.	West Tisbury
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Glocester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague
	Dwarf wedgemussel	Endangered	Mill River	Whately
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hadley, Hatfield, Amherst and Northampton
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
Plymouth	Piping Plover	Threatened	Coastal Beaches	Scituate, Marshfield, Duxbury, Plymouth, Wareham and Mattapoisett
	Northern Red-bellied cooter	Endangered	Inland Ponds and Rivers	Kingston, Middleborough, Carver, Plymouth, Bourne, and Wareham
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Marion, Wareham, and Mattapoisett.
Suffolk	Piping Plover	Threatened	Coastal Beaches	Winthrop
Worcester	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Leominster

-Eastern cougar and gray wolf are considered extirpated in Massachusetts.
-Endangered gray wolves are not known to be present in Massachusetts, but dispersing individuals from source populations in Canada may occur statewide.
-Critical habitat for the Northern Red-bellied cooter is present in Plymouth County.

7/31/2008

Rare Species by Town

MESA (Massachusetts Endangered Species Act) and Federal Status

Quick Links

» Town Index
» MESA List
» Contact Us

E = Endangered T = Threatened SC = Special Concern

Most Recent Observation

This field represents the most recent observation of that species in a town. However, because they are rare, many MESA-listed species are difficult to detect even when they are present. Natural Heritage does not have the resources to be able to conduct methodical species surveys in each town on a regular basis. Therefore, the fact that the 'Most Recent Observation' recorded for a species may be several years old should not be interpreted as meaning that the species no longer occurs in a town. However, Natural Heritage regards records older than twenty-five years historic.

Click on a town below to view MESA-listed species for that town. To print the species for a particular town, highlight the species using your mouse, go to Print under the File Menu, click on 'Selection' under 'Print Range' and click OK.

For more information about a particular species, view the list of Natural Heritage Fact Sheets.

These data were extracted from the database of the Natural Heritage and Endangered Species Program in September 2009.

Barnstable | Barre | Becket | Bedford | Belchertown | Bellingham | Belmont | Berkley | Berlin | Bernardston | Beverly | Billerica | Blackstone | Blandford | Bolton | Boston | Bourne | Boxborough | Boxford | Boylston | Braintree | Brewster | Bridgewater | Brimfield | Brockton | Brookfield | Brookline | Buckland | Burlington

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BARNSTABLE	Amphibian	Scaphiopus holbrookii	Eastern Spadefoot	T		2009
BARNSTABLE	Bird	Ammodramus savannarum	Grasshopper Sparrow	T		1993
BARNSTABLE	Bird	Asio flammeus	Short-eared Owl	E		Historic

BARNSTABLE	Bird	Asio otus	Long-eared Owl	SC		1978
BARNSTABLE	Bird	Charadrius melodus	Piping Plover	T	T	2006
BARNSTABLE	Bird	Parula americana	Northern Parula	T		1989
BARNSTABLE	Bird	Sterna dougallii	Roseate Tern	E	E	2008
BARNSTABLE	Bird	Sterna hirundo	Common Tern	SC		2008
BARNSTABLE	Bird	Sterna paradisaea	Arctic Tern	SC		1901
BARNSTABLE	Bird	Sternula antillarum	Least Tern	SC		2007
BARNSTABLE	Butterfly/Moth	Abagrotis nefascia	Coastal Heathland Cutworm	SC		1982
BARNSTABLE	Butterfly/Moth	Bagisara rectifascia	Straight Lined Mallow Moth	SC		1951
BARNSTABLE	Butterfly/Moth	Cingilia catenaria	Chain Dot Geometer	SC		1954
BARNSTABLE	Butterfly/Moth	Hemileuca maia	Barrens Buckmoth	SC		1994
BARNSTABLE	Butterfly/Moth	Itame sp. 1 nr. inextricata	Pine Barrens Itame	SC		1968
BARNSTABLE	Butterfly/Moth	Papaipema stenocelis	Chain Fern Borer Moth	T		1950
BARNSTABLE	Butterfly/Moth	Papaipema sulphurata	Water-willow Stem Borer	T		2004
BARNSTABLE	Butterfly/Moth	Pieris oleracea	Mustard White	T		1949
BARNSTABLE	Butterfly/Moth	Satyrium favonius	Oak Hairstreak	SC		1982
BARNSTABLE	Butterfly/Moth	Zale sp. 1 nr. lunifera	Pine Barrens Zale	SC		1951
BARNSTABLE	Crustacean	Eulimnadia agassizii	Agassiz's Clam Shrimp	E		2009
BARNSTABLE	Dragonfly/Damselfly	Anax longipes	Comet Darner	SC		2004
BARNSTABLE	Dragonfly/Damselfly	Enallagma carunculatum	Tule Bluet	SC		1941
BARNSTABLE	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		1989
BARNSTABLE	Dragonfly/Damselfly	Enallagma pictum	Scarlet Bluet	T		2005
BARNSTABLE	Dragonfly/Damselfly	Enallagma recurvatum	Pine Barrens Bluet	T		2004
BARNSTABLE	Fish	Notropis bifrenatus	Bridle Shiner	SC		1993
BARNSTABLE	Mussel	Alasmidonta undulata	Triangle Floater	SC		2007
BARNSTABLE	Mussel	Leptodea ochracea	Tidewater Mucket	SC		2007
BARNSTABLE	Mussel	Ligumia nasuta	Eastern Pondmussel	SC		2007
BARNSTABLE	Reptile	Malaclemys terrapin	Diamond-backed Terrapin	T		2007
BARNSTABLE	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2007
BARNSTABLE	Snail	Ferrissia walkeri	Walker's Limpet	SC		2006

BARNSTABLE	Vascular Plant	Amelanchier nantucketensis	Nantucket Shadbush	SC	1993
BARNSTABLE	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T	1916
BARNSTABLE	Vascular Plant	Carex mitchelliana	Mitchell's Sedge	T	1988
BARNSTABLE	Vascular Plant	Corema conradii	Broom Crowberry	SC	1916
BARNSTABLE	Vascular Plant	Crocanthemum dumosum	Bushy Rockrose	SC	1999
BARNSTABLE	Vascular Plant	Dichanthelium ovale ssp. pseudopubescens	Commons's Panic-grass	SC	1986
BARNSTABLE	Vascular Plant	Dichanthelium wrightianum	Wright's Panic-grass	SC	2004
BARNSTABLE	Vascular Plant	Lachnanthes caroliana	Redroot	SC	2004
BARNSTABLE	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC	2006
BARNSTABLE	Vascular Plant	Linum intercursum	Sandplain Flax	SC	1989
BARNSTABLE	Vascular Plant	Linum medium var. texanum	Rigid Flax	T	1983
BARNSTABLE	Vascular Plant	Lipocarpha micrantha	Dwarf Bulrush	T	1898
BARNSTABLE	Vascular Plant	Listera cordata	Heartleaf Twayblade	E	1916
BARNSTABLE	Vascular Plant	Malaxis bayardii	Bayard's Green Adder's-mouth	E	1989
BARNSTABLE	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T	1960s
BARNSTABLE	Vascular Plant	Panicum philadelphicum ssp. philadelphicum	Philadelphia Panic-grass	SC	1989
BARNSTABLE	Vascular Plant	Polygonum puritanorum	Pondshore Knotweed	SC	2003
BARNSTABLE	Vascular Plant	Rhexia mariana	Maryland Meadow Beauty	E	1967
BARNSTABLE	Vascular Plant	Rhynchospora nitens	Short-beaked Bald-sedge	T	2002
BARNSTABLE	Vascular Plant	Rhynchospora scirpoides	Long-beaked Bald-sedge	SC	1995
BARNSTABLE	Vascular Plant	Rhynchospora torreyana	Torrey's Beak-sedge	E	2007
BARNSTABLE	Vascular Plant	Sabatia campanulata	Slender Marsh Pink	E	2008
BARNSTABLE	Vascular Plant	Sabatia kennedyana	Plymouth Gentian	SC	2008
BARNSTABLE	Vascular Plant	Sagittaria teres	Terete Arrowhead	SC	2004
BARNSTABLE	Vascular Plant	Scleria pauciflora	Papillose Nut Sedge	E	1986
BARNSTABLE	Vascular Plant	Setaria parviflora	Bristly Foxtail	SC	1919
BARNSTABLE	Vascular Plant	Sphenopholis pensylvanica	Swamp Oats	T	1988

BARNSTABLE	Vascular Plant	Spiranthes vernalis	Grass-leaved Ladies'-tresses	T	1986
BARNSTABLE	Vascular Plant	Tipularia discolor	Cranefly Orchid	E	1983
BARNSTABLE	Vascular Plant	Utricularia subulata	Subulate Bladderwort	SC	1918

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BARRE	Beetle	Cicindela duodecimguttata	Twelve-spotted Tiger Beetle	SC		2007
BARRE	Bird	Botaurus lentiginosus	American Bittern	E		1930
BARRE	Bird	Ixobrychus exilis	Least Bittern	E		2005
BARRE	Butterfly/Moth	Psectraglaea carnosa	Pink Sallow	SC		2007
BARRE	Dragonfly/Damselfly	Neurocordulia yamaskanensis	Stygian Shadowdragon	SC		2004
BARRE	Fish	Notropis bifrenatus	Bridle Shiner	SC		2005
BARRE	Mussel	Alasmidonta undulata	Triangle Floater	SC		1999
BARRE	Mussel	Strophitus undulatus	Creeper	SC		1999
BARRE	Reptile	Glyptemys insculpta	Wood Turtle	SC		2006
BARRE	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2005
BARRE	Vascular Plant	Asclepias purpurascens	Purple Milkweed	E		1865
BARRE	Vascular Plant	Clematis occidentalis	Purple Clematis	SC		2008
BARRE	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		1950
BARRE	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1870
BARRE	Vascular Plant	Viola adunca	Sand Violet	SC		2006

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BECKET	Bird	Botaurus lentiginosus	American Bittern	E		1991
BECKET	Butterfly/Moth	Erora laeta	Early Hairstreak	T		2005
BECKET	Dragonfly/Damselfly	Boyeria grafiana	Ocellated Darner	SC		2004
BECKET	Dragonfly/Damselfly	Somatochlora forcipata	Forcipate Emerald	SC		1973
BECKET	Fish	Catostomus catostomus	Longnose Sucker	SC		1979
BECKET	Fish	Notropis bifrenatus	Bridle Shiner	SC		1994
BECKET	Reptile	Glyptemys insculpta	Wood Turtle	SC		2006
BECKET	Vascular Plant	Arceuthobium pusillum	Dwarf Mistletoe	SC		1904
BECKET	Vascular Plant	Carex livida	Glaucous Sedge	E		Historic
BECKET	Vascular Plant	Carex pauciflora	Few-flowered Sedge	E		Historic
BECKET	Vascular Plant	Lygodium palmatum	Climbing Fern	SC		Historic
BECKET	Vascular Plant	Sisyrinchium mucronatum	Slender Blue-eyed Grass	E		2001

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BEDFORD	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2009
BEDFORD	Bird	Accipiter striatus	Sharp-shinned Hawk	SC		1902
BEDFORD	Bird	Bartramia longicauda	Upland Sandpiper	E		2000
BEDFORD	Fish	Notropis bifrenatus	Bridle Shiner	SC		1998
BEDFORD	Reptile	Emydoidea blandingii	Blanding's Turtle	T		2008
BEDFORD	Reptile	Glyptemys insculpta	Wood Turtle	SC		1995
BEDFORD	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2004
BEDFORD	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T		1884
BEDFORD	Vascular Plant	Bolboschoenus fluviatilis	River Bulrush	SC		2002
BEDFORD	Vascular Plant	Carex oligosperma	Few-fruited Sedge	E		2007
BEDFORD	Vascular Plant	Gentiana andrewsii	Andrews' Bottle Gentian	E		1882
BEDFORD	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		1899
BEDFORD	Vascular Plant	Ludwigia sphaerocarpa	Round-fruited False-loosestrife	E		1885
BEDFORD	Vascular Plant	Nabalus serpentarius	Lion's Foot	E		1883
BEDFORD	Vascular Plant	Nuphar microphylla	Tiny Cow-lily	E		1883
BEDFORD	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1900
BEDFORD	Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T		1888
BEDFORD	Vascular Plant	Scirpus longii	Long's Bulrush	T		2007
BEDFORD	Vascular Plant	Senna hebecarpa	Wild Senna	E		1883
BEDFORD	Vascular Plant	Viola brittoniana	Britton's Violet	T		2007

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BELCHERTOWN	Amphibian	Ambystoma opacum	Marbled Salamander	T		2006
BELCHERTOWN	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		1941
BELCHERTOWN	Bird	Botaurus lentiginosus	American Bittern	E		2008
BELCHERTOWN	Bird	Gallinula chloropus	Common Moorhen	SC		1932
BELCHERTOWN	Bird	Haliaeetus leucocephalus	Bald Eagle	E		2008
BELCHERTOWN	Bird	Ixobrychus exilis	Least Bittern	E		2007
BELCHERTOWN	Bird	Podilymbus podiceps	Pied-billed Grebe	E		1932

BELCHERTOWN	Bird	Tyto alba	Barn Owl	SC	1951
BELCHERTOWN	Crustacean	Eubranchipus intricatus	Intricate Fairy Shrimp	SC	1970s
BELCHERTOWN	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC	2008
BELCHERTOWN	Fish	Notropis bifrenatus	Bridle Shiner	SC	1998
BELCHERTOWN	Mammal	Synaptomys cooperi	Southern Bog Lemming	SC	1974
BELCHERTOWN	Reptile	Glyptemys insculpta	Wood Turtle	SC	2007
BELCHERTOWN	Reptile	Terrapene carolina	Eastern Box Turtle	SC	2006
BELCHERTOWN	Vascular Plant	Acer nigrum	Black Maple	SC	1891
BELCHERTOWN	Vascular Plant	Asclepias purpurascens	Purple Milkweed	E	1875
BELCHERTOWN	Vascular Plant	Blephilia ciliata	Downy Wood-mint	E	1891
BELCHERTOWN	Vascular Plant	Lygodium palmatum	Climbing Fern	SC	2000
BELCHERTOWN	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T	1883
BELCHERTOWN	Vascular Plant	Podostemum ceratophyllum	Threadfoot	SC	1925
BELCHERTOWN	Vascular Plant	Ranunculus pensylvanicus	Bristly Buttercup	SC	1871
BELCHERTOWN	Vascular Plant	Scheuchzeria palustris	Pod-grass	E	1872
BELCHERTOWN	Vascular Plant	Utricularia resupinata	Resupinate Bladderwort	T	1873

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BELLINGHAM	Amphibian	Ambystoma opacum	Marbled Salamander	T		2007
BELLINGHAM	Fish	Lampetra appendix	American Brook Lamprey	T		2001
BELLINGHAM	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T		1894
BELLINGHAM	Vascular Plant	Goodyera repens	Dwarf Rattlesnake-plantain	E		1886
BELLINGHAM	Vascular Plant	Panicum philadelphicum ssp. philadelphicum	Philadelphia Panic-grass	SC		1986

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BELMONT	Amphibian	Ambystoma	Jefferson Salamander	SC		1800s

		jeffersonianum				
BELMONT	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		Historic
BELMONT	Bird	Tyto alba	Barn Owl	SC		1952
BELMONT	Bird	Gallinula chloropus	Common Moorhen	SC		Historic
BELMONT	Bird	Cistothorus platensis	Sedge Wren	E		1868
BELMONT	Dragonfly/Damselfly	Somatochlora linearis	Mocha Emerald	SC		2005
BELMONT	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T		1852
BELMONT	Vascular Plant	Carex gracilescens	Slender Woodland Sedge	E		1932

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BERKLEY	Beetle	Cicindela duodecimguttata	Twelve-spotted Tiger Beetle	SC		1913
BERKLEY	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		1912
BERKLEY	Reptile	Glyptemys insculpta	Wood Turtle	SC		1991
BERKLEY	Reptile	Malaclemys terrapin	Diamond-backed Terrapin	T		1982
BERKLEY	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2007
BERKLEY	Vascular Plant	Bidens eatonii	Eaton's Beggar-ticks	E		1923
BERKLEY	Vascular Plant	Cardamine longii	Long's Bitter-cress	E		1997
BERKLEY	Vascular Plant	Carex polymorpha	Variable Sedge	E		1908

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BERLIN	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		1800s
BERLIN	Amphibian	Ambystoma opacum	Marbled Salamander	T		2000
BERLIN	Bird	Accipiter striatus	Sharp-shinned Hawk	SC		1936
BERLIN	Bird	Ammodramus henslowii	Henslow's Sparrow	E		Historic
BERLIN	Mussel	Alasmidonta varicosa	Brook Floater (Swollen Wedgemussel)	E		1859
BERLIN	Reptile	Glyptemys insculpta	Wood Turtle	SC		1993
BERLIN	Reptile	Terrapene carolina	Eastern Box Turtle	SC		1991
BERLIN	Vascular Plant	Asclepias purpurascens	Purple Milkweed	E		1915
BERLIN	Vascular Plant	Panicum philadelphicum ssp. philadelphicum	Philadelphia Panic-grass	SC		1944

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation

BERNARDSTON	Butterfly/Moth	Erora laeta	Early Hairstreak	T		1988
BERNARDSTON	Vascular Plant	Actaea racemosa	Black Cohosh	E		1998

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BEVERLY	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		1925
BEVERLY	Bird	Vermivora chrysoptera	Golden-winged Warbler	E		1987
BEVERLY	Vascular Plant	Magnolia virginiana	Sweetbay Magnolia	E		1995
BEVERLY	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1874
BEVERLY	Vascular Plant	Potamogeton vaseyi	Vasey's Pondweed	E		1878
BEVERLY	Vascular Plant	Suaeda calceoliformis	American Sea-blite	SC		1902

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BILLERICA	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2008
BILLERICA	Fish	Notropis bifrenatus	Bridle Shiner	SC		1961
BILLERICA	Reptile	Emydoidea blandingii	Blanding's Turtle	T		1992
BILLERICA	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		1917
BILLERICA	Vascular Plant	Ludwigia sphaerocarpa	Round-fruited False-loosestrife	E		1889
BILLERICA	Vascular Plant	Nabalus serpentarius	Lion's Foot	E		1871
BILLERICA	Vascular Plant	Nuphar microphylla	Tiny Cow-lily	E		1869
BILLERICA	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1900
BILLERICA	Vascular Plant	Viola brittoniana	Britton's Violet	T		1915

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BLACKSTONE	Fish	Lampetra appendix	American Brook Lamprey	T		2001
BLACKSTONE	Mussel	Alasmidonta undulata	Triangle Floater	SC		1999
BLACKSTONE	Mussel	Strophitus undulatus	Creeper	SC		1999

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BLANDFORD	Bird	Bartramia longicauda	Upland Sandpiper	E		Historic
BLANDFORD	Bird	Botaurus lentiginosus	American Bittern	E		2005

BLANDFORD	Bird	Circus cyaneus	Northern Harrier	T	1923
BLANDFORD	Bird	Cistothorus platensis	Sedge Wren	E	1982
BLANDFORD	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC	2008
BLANDFORD	Reptile	Glyptemys insculpta	Wood Turtle	SC	1995
BLANDFORD	Vascular Plant	Rhododendron maximum	Great Laurel	T	1946
BLANDFORD	Vascular Plant	Sisyrinchium mucronatum	Slender Blue-eyed Grass	E	1919

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BOLTON	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2006
BOLTON	Amphibian	Ambystoma opacum	Marbled Salamander	T		2008
BOLTON	Beetle	Cicindela duodecimguttata	Twelve-spotted Tiger Beetle	SC		2007
BOLTON	Bird	Botaurus lentiginosus	American Bittern	E		1990
BOLTON	Bird	Ixobrychus exilis	Least Bittern	E		1985
BOLTON	Bird	Podilymbus podiceps	Pied-billed Grebe	E		1984
BOLTON	Bird	Rallus elegans	King Rail	T		1999
BOLTON	Reptile	Emydoidea blandingii	Blanding's Turtle	T		2009
BOLTON	Reptile	Glyptemys insculpta	Wood Turtle	SC		1999
BOLTON	Reptile	Terrapene carolina	Eastern Box Turtle	SC		1989
BOLTON	Vascular Plant	Carex typhina	Cat-tail Sedge	T		1999
BOLTON	Vascular Plant	Corallorhiza odontorhiza	Autumn Coralroot	SC		2006

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BOSTON	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2003
BOSTON	Amphibian	Scaphiopus holbrookii	Eastern Spadefoot	T		1932
BOSTON	Beetle	Cicindela duodecimguttata	Twelve-spotted Tiger Beetle	SC		1910
BOSTON	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		1928
BOSTON	Beetle	Cicindela rufiventris hentzii	Hentz's Redbelly Tiger Beetle	T		1927
BOSTON	Bird	Accipiter striatus	Sharp-shinned Hawk	SC		1898
BOSTON	Bird	Ammodramus savannarum	Grasshopper Sparrow	T		1993

BOSTON	Bird	Bartramia longicauda	Upland Sandpiper	E	1993
BOSTON	Bird	Falco peregrinus	Peregrine Falcon	E	2007
BOSTON	Bird	Gavia immer	Common Loon	SC	1824
BOSTON	Bird	Pooecetes gramineus	Vesper Sparrow	T	1985
BOSTON	Bird	Sterna hirundo	Common Tern	SC	2008
BOSTON	Bird	Sternula antillarum	Least Tern	SC	2007
BOSTON	Bird	Tyto alba	Barn Owl	SC	1989
BOSTON	Bird	Vermivora chrysoptera	Golden-winged Warbler	E	Historic
BOSTON	Butterfly/Moth	Apodrepanulatrix liberaria	New Jersey Tea Inchworm	E	Historic
BOSTON	Butterfly/Moth	Abagrotis nefascia	Coastal Heathland Cutworm	SC	2001
BOSTON	Butterfly/Moth	Metarranthis apiciaria	Barrens Metarranthis Moth	E	1934
BOSTON	Butterfly/Moth	Rhodoecia aurantiago	Orange Sallow Moth	T	1988
BOSTON	Dragonfly/Damselfly	Somatochlora linearis	Mocha Emerald	SC	2009
BOSTON	Fish	Gasterosteus aculeatus	Threespine Stickleback	T	2000
BOSTON	Mussel	Alasmidonta undulata	Triangle Floater	SC	2005
BOSTON	Mussel	Ligumia nasuta	Eastern Pondmussel	SC	1841
BOSTON	Reptile	Terrapene carolina	Eastern Box Turtle	SC	1939
BOSTON	Vascular Plant	Ageratina aromatica	Lesser Snakeroot	E	1896
BOSTON	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T	1800s
BOSTON	Vascular Plant	Aristida tuberculosa	Seabeach Needlegrass	T	1877
BOSTON	Vascular Plant	Asclepias verticillata	Linear-leaved Milkweed	T	1878
BOSTON	Vascular Plant	Boechera missouriensis	Green Rock-cress	T	1930
BOSTON	Vascular Plant	Carex striata	Walter's Sedge	E	Historic
BOSTON	Vascular Plant	Desmodium cuspidatum	Large-bracted Tick-trefoil	T	1896
BOSTON	Vascular Plant	Eriophorum gracile	Slender Cottongrass	T	1885
BOSTON	Vascular Plant	Houstonia longifolia	Long-leaved Bluet	E	1918
BOSTON	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC	1933
BOSTON	Vascular Plant	Linum medium var. texanum	Rigid Flax	T	1909
BOSTON	Vascular Plant	Lycopus rubellus	Gypsywort	E	1896
BOSTON	Vascular Plant	Myriophyllum alterniflorum	Alternate-flowered Water-milfoil	E	Historic
BOSTON	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T	1884
BOSTON	Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T	1908

BOSTON	Vascular Plant	Ranunculus micranthus	Tiny-flowered Buttercup	E		1891
BOSTON	Vascular Plant	Rumex pallidus	Seabeach Dock	T		1984
BOSTON	Vascular Plant	Sanicula odorata	Long-styled Sanicle	T		Historic
BOSTON	Vascular Plant	Scirpus longii	Long's Bulrush	T		1907
BOSTON	Vascular Plant	Setaria parviflora	Bristly Foxtail	SC		2001
BOSTON	Vascular Plant	Suaeda calceoliformis	American Sea-blite	SC		1909
BOSTON	Vascular Plant	Viola brittoniana	Britton's Violet	T		1909

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BOURNE	Amphibian	Ambystoma opacum	Marbled Salamander	T		1936
BOURNE	Amphibian	Scaphiopus holbrookii	Eastern Spadefoot	T		2003
BOURNE	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		1935
BOURNE	Bird	Accipiter striatus	Sharp-shinned Hawk	SC		2001
BOURNE	Bird	Ammodramus savannarum	Grasshopper Sparrow	T		2007
BOURNE	Bird	Charadrius melodus	Piping Plover	T	T	2006
BOURNE	Bird	Circus cyaneus	Northern Harrier	T		2007
BOURNE	Bird	Pooecetes gramineus	Vesper Sparrow	T		2006
BOURNE	Bird	Sterna dougallii	Roseate Tern	E	E	2008
BOURNE	Bird	Sterna hirundo	Common Tern	SC		2008
BOURNE	Bird	Sternula antillarum	Least Tern	SC		2007
BOURNE	Bird	Tyto alba	Barn Owl	SC		1974
BOURNE	Butterfly/Moth	Abagrotis nefascia	Coastal Heathland Cutworm	SC		1996
BOURNE	Butterfly/Moth	Acronicta albarufa	Barrens Daggermoth	T		1998
BOURNE	Butterfly/Moth	Bagisara rectifascia	Straight Lined Mallow Moth	SC		1998
BOURNE	Butterfly/Moth	Catocala herodias gerhardi	Gerhard's Underwing Moth	SC		1999
BOURNE	Butterfly/Moth	Cicinnus melsheimeri	Melsheimer's Sack Bearer	T		1998
BOURNE	Butterfly/Moth	Cingilia catenaria	Chain Dot Geometer	SC		2006
BOURNE	Butterfly/Moth	Hemileuca maia	Barrens Buckmoth	SC		2006
BOURNE	Butterfly/Moth	Itame sp. 1 nr. inextricata	Pine Barrens Itame	SC		1998
BOURNE	Butterfly/Moth	Metarranthis pilosaria	Coastal Swamp Metarranthis Moth	SC		1998
BOURNE	Butterfly/Moth	Papaipema sulphurata	Water-willow Stem Borer	T		1994
BOURNE	Butterfly/Moth	Zale sp. 1 nr. lunifera	Pine Barrens Zale	SC		1997
BOURNE	Dragonfly/Damselfly	Anax longipes	Comet Darner	SC		2007
BOURNE	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		2004
BOURNE	Dragonfly/Damselfly	Enallagma	Pine Barrens Bluet	T		1998

		recurvatum				
BOURNE	Dragonfly/Damselfly	Rhionaeschna mutata	Spatterdock Darner	SC		2007
BOURNE	Fish	Notropis bifrenatus	Bridle Shiner	SC		1993
BOURNE	Mussel	Leptodea ochracea	Tidewater Mucket	SC		1996
BOURNE	Mussel	Ligumia nasuta	Eastern Pondmussel	SC		1997
BOURNE	Reptile	Malaclemys terrapin	Diamond-backed Terrapin	T		2004
BOURNE	Reptile	Pseudemys rubriventris pop. 1	Northern Red-bellied Cooter	E	E	2003
BOURNE	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2009
BOURNE	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T		1901
BOURNE	Vascular Plant	Asclepias verticillata	Linear-leaved Milkweed	T		1915
BOURNE	Vascular Plant	Crocanthemum dumosum	Bushy Rockrose	SC		2000
BOURNE	Vascular Plant	Eleocharis ovata	Ovate Spike-sedge	E		1992
BOURNE	Vascular Plant	Hypericum adpressum	Creeping St. John's-wort	T		2007
BOURNE	Vascular Plant	Juncus debilis	Weak Rush	E		1993
BOURNE	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		2005
BOURNE	Vascular Plant	Lygodium palmatum	Climbing Fern	SC		1992
BOURNE	Vascular Plant	Malaxis bayardii	Bayard's Green Adder's-mouth	E		1919
BOURNE	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		2006
BOURNE	Vascular Plant	Polygonum glaucum	Sea-beach Knotweed	SC		1913
BOURNE	Vascular Plant	Polygonum puritanorum	Pondshore Knotweed	SC		1994
BOURNE	Vascular Plant	Rhynchospora scirpoides	Long-beaked Bald-sedge	SC		1986
BOURNE	Vascular Plant	Sabatia kennedyana	Plymouth Gentian	SC		1996
BOURNE	Vascular Plant	Sagittaria teres	Terete Arrowhead	SC		1994
BOURNE	Vascular Plant	Setaria parviflora	Bristly Foxtail	SC		1913
BOURNE	Vascular Plant	Spiranthes vernalis	Grass-leaved Ladies'-tresses	T		1896
BOURNE	Vascular Plant	Suaeda calceoliformis	American Sea-blite	SC		1995
BOURNE	Vascular Plant	Triosteum perfoliatum	Broad Tinker's-weed	E		2004

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BOXBOROUGH	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2007
BOXBOROUGH	Reptile	Emydoidea blandingii	Blanding's Turtle	T		2003
BOXBOROUGH	Reptile	Glyptemys insculpta	Wood Turtle	SC		2002
BOXBOROUGH	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2001

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BOXFORD	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2008
BOXFORD	Amphibian	Ambystoma opacum	Marbled Salamander	T		1983
BOXFORD	Bird	Tyto alba	Barn Owl	SC		1957
BOXFORD	Fish	Notropis bifrenatus	Bridle Shiner	SC		1999
BOXFORD	Mussel	Ligumia nasuta	Eastern Pondmussel	SC		Historic
BOXFORD	Reptile	Emydoidea blandingii	Blanding's Turtle	T		2008
BOXFORD	Reptile	Glyptemys insculpta	Wood Turtle	SC		2000
BOXFORD	Vascular Plant	Asclepias purpurascens	Purple Milkweed	E		1883
BOXFORD	Vascular Plant	Carex livida	Glaucous Sedge	E		1890
BOXFORD	Vascular Plant	Eriophorum gracile	Slender Cottongrass	T		1909
BOXFORD	Vascular Plant	Gentiana andrewsii	Andrews' Bottle Gentian	E		1881
BOXFORD	Vascular Plant	Houstonia longifolia	Long-leaved Bluet	E		1882
BOXFORD	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		2004
BOXFORD	Vascular Plant	Myriophyllum alterniflorum	Alternate-flowered Water-milfoil	E		2004
BOXFORD	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1905
BOXFORD	Vascular Plant	Panicum philadelphicum ssp. philadelphicum	Philadelphia Panic-grass	SC		1953
BOXFORD	Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T		1881
BOXFORD	Vascular Plant	Potamogeton vaseyi	Vasey's Pondweed	E		2004
BOXFORD	Vascular Plant	Senna hebecarpa	Wild Senna	E		1882
BOXFORD	Vascular Plant	Sparganium natans	Small Bur-reed	E		1997
BOXFORD	Vascular Plant	Viola adunca	Sand Violet	SC		2004

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BOYLSTON	Amphibian	Ambystoma opacum	Marbled Salamander	T		1995
BOYLSTON	Bird	Gavia immer	Common Loon	SC		2008
BOYLSTON	Bird	Haliaeetus leucocephalus	Bald Eagle	E		2009
BOYLSTON	Bird	Podilymbus podiceps	Pied-billed Grebe	E		1978
BOYLSTON	Butterfly/Moth	Rhodoecia aurantiago	Orange Sallow Moth	T		2008
BOYLSTON	Fish	Notropis bifrenatus	Bridle Shiner	SC		1951
BOYLSTON	Reptile	Glyptemys insculpta	Wood Turtle	SC		1983
BOYLSTON	Vascular Plant	Hydrophyllum canadense	Broad Waterleaf	E		1943

BOYLSTON	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		1932
BOYLSTON	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		2000

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BRAINTREE	Dragonfly/Damselfly	Anax longipes	Comet Darner	SC		1970
BRAINTREE	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		1969
BRAINTREE	Dragonfly/Damselfly	Somatochlora linearis	Mocha Emerald	SC		1989
BRAINTREE	Mussel	Ligumia nasuta	Eastern Pondmussel	SC		2000
BRAINTREE	Reptile	Terrapene carolina	Eastern Box Turtle	SC		1997
BRAINTREE	Vascular Plant	Asclepias purpurascens	Purple Milkweed	E		1922
BRAINTREE	Vascular Plant	Houstonia longifolia	Long-leaved Bluet	E		1886

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BREWSTER	Bird	Charadrius melodus	Piping Plover	T	T	2006
BREWSTER	Bird	Parula americana	Northern Parula	T		2006
BREWSTER	Bird	Sterna dougallii	Roseate Tern	E	E	2008
BREWSTER	Bird	Sterna hirundo	Common Tern	SC		2008
BREWSTER	Butterfly/Moth	Abagrotis nefascia	Coastal Heathland Cutworm	SC		1981
BREWSTER	Butterfly/Moth	Apamea inebriata	Drunk Apamea Moth	SC		1981
BREWSTER	Butterfly/Moth	Bagisara rectifascia	Straight Lined Mallow Moth	SC		1982
BREWSTER	Butterfly/Moth	Papaipema sulphurata	Water-willow Stem Borer	T		1994
BREWSTER	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		2000
BREWSTER	Dragonfly/Damselfly	Enallagma pictum	Scarlet Bluet	T		2003
BREWSTER	Dragonfly/Damselfly	Enallagma recurvatum	Pine Barrens Bluet	T		2005
BREWSTER	Dragonfly/Damselfly	Rhionaeschna mutata	Spatterdock Darner	SC		1987
BREWSTER	Fish	Notropis bifrenatus	Bridle Shiner	SC		1961
BREWSTER	Reptile	Malaclemys terrapin	Diamond-backed Terrapin	T		2002
BREWSTER	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2008
BREWSTER	Vascular Plant	Carex mitchelliana	Mitchell's Sedge	T		2006
BREWSTER	Vascular Plant	Corema conradii	Broom Crowberry	SC		1994
BREWSTER	Vascular Plant	Crocanthemum dumosum	Bushy Rockrose	SC		2006

BREWSTER	Vascular Plant	Dichanthelium dichotomum ssp. mattamuskeetense	Mattamuskeet Panic-grass	E	1918
BREWSTER	Vascular Plant	Dichanthelium ovale ssp. pseudopubescens	Commons's Panic-grass	SC	2006
BREWSTER	Vascular Plant	Gamochaeta purpurea	Purple Cudweed	E	1924
BREWSTER	Vascular Plant	Isoetes acadiensis	Acadian Quillwort	E	1989
BREWSTER	Vascular Plant	Lachnanthes caroliana	Redroot	SC	2002
BREWSTER	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC	1931
BREWSTER	Vascular Plant	Lipocarpha micrantha	Dwarf Bulrush	T	2006
BREWSTER	Vascular Plant	Mertensia maritima	Oysterleaf	E	2001
BREWSTER	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T	1992
BREWSTER	Vascular Plant	Opuntia humifusa	Prickly Pear	E	1989
BREWSTER	Vascular Plant	Polygonum puritanorum	Pondshore Knotweed	SC	2003
BREWSTER	Vascular Plant	Rhexia mariana	Maryland Meadow Beauty	E	2008
BREWSTER	Vascular Plant	Rhynchospora scirpoides	Long-beaked Bald-sedge	SC	1986
BREWSTER	Vascular Plant	Rumex pallidus	Seabeach Dock	T	1994
BREWSTER	Vascular Plant	Sabatia kennedyana	Plymouth Gentian	SC	2004
BREWSTER	Vascular Plant	Sagittaria teres	Terete Arrowhead	SC	2008
BREWSTER	Vascular Plant	Spartina cynosuroides	Salt Reedgrass	T	2004
BREWSTER	Vascular Plant	Utricularia resupinata	Resupinate Bladderwort	T	2002

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BRIDGEWATER	Bird	Ammodramus savannarum	Grasshopper Sparrow	T		1997
BRIDGEWATER	Bird	Asio otus	Long-eared Owl	SC		1978
BRIDGEWATER	Bird	Bartramia longicauda	Upland Sandpiper	E		1980
BRIDGEWATER	Bird	Tyto alba	Barn Owl	SC		1981
BRIDGEWATER	Butterfly/Moth	Papaipema sulphurata	Water-willow Stem Borer	T		1994
BRIDGEWATER	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		1994
BRIDGEWATER	Dragonfly/Damselfly	Enallagma	Scarlet Bluet	T		2004

		pictum				
BRIDGEWATER	Mussel	Alasmidonta undulata	Triangle Floater	SC		1999
BRIDGEWATER	Mussel	Leptodea ochracea	Tidewater Mucket	SC		1997
BRIDGEWATER	Mussel	Ligumia nasuta	Eastern Pondmussel	SC		1997
BRIDGEWATER	Reptile	Glyptemys insculpta	Wood Turtle	SC		2004
BRIDGEWATER	Reptile	Pseudemys rubriventris pop. 1	Northern Red-bellied Cooter	E	E	2005
BRIDGEWATER	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2009
BRIDGEWATER	Vascular Plant	Ludwigia sphaerocarpa	Round-fruited False-loosestrife	E		2005
BRIDGEWATER	Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T		1912
BRIDGEWATER	Vascular Plant	Sabatia kennedyana	Plymouth Gentian	SC		2005
BRIDGEWATER	Vascular Plant	Scirpus longii	Long's Bulrush	T		1988

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BRIMFIELD	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2000
BRIMFIELD	Bird	Botaurus lentiginosus	American Bittern	E		1997
BRIMFIELD	Bird	Ixobrychus exilis	Least Bittern	E		2007
BRIMFIELD	Dragonfly/Damselfly	Ophiogomphus aspersus	Brook Snaketail	SC		2004
BRIMFIELD	Fish	Notropis bifrenatus	Bridle Shiner	SC		1999
BRIMFIELD	Mussel	Alasmidonta undulata	Triangle Floater	SC		1982
BRIMFIELD	Mussel	Strophitus undulatus	Creeper	SC		1982
BRIMFIELD	Reptile	Glyptemys insculpta	Wood Turtle	SC		2006
BRIMFIELD	Vascular Plant	Isoetes lacustris	Lake Quillwort	E		1930

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BROCKTON	Butterfly/Moth	Metarranthis apiciaria	Barrens Metarranthis Moth	E		1909
BROCKTON	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		2003
BROCKTON	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		1900

BROCKTON	Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T		1902

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BROOKFIELD	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		1990
BROOKFIELD	Amphibian	Ambystoma opacum	Marbled Salamander	T		1996
BROOKFIELD	Bird	Bartramia longicauda	Upland Sandpiper	E		Historic
BROOKFIELD	Bird	Botaurus lentiginosus	American Bittern	E		2008
BROOKFIELD	Bird	Cistothorus platensis	Sedge Wren	E		1992
BROOKFIELD	Bird	Haliaeetus leucocephalus	Bald Eagle	E		2008
BROOKFIELD	Bird	Ixobrychus exilis	Least Bittern	E		2007
BROOKFIELD	Bird	Podilymbus podiceps	Pied-billed Grebe	E		1993
BROOKFIELD	Bird	Rallus elegans	King Rail	T		2007
BROOKFIELD	Dragonfly/Damselfly	Rhionaeschna mutata	Spatterdock Darner	SC		2003
BROOKFIELD	Fish	Notropis bifrenatus	Bridle Shiner	SC		2003
BROOKFIELD	Mussel	Alasmidonta undulata	Triangle Floater	SC		1999
BROOKFIELD	Vascular Plant	Carex polymorpha	Variable Sedge	E		2004
BROOKFIELD	Vascular Plant	Clematis occidentalis	Purple Clematis	SC		2007
BROOKFIELD	Vascular Plant	Lipocarpha micrantha	Dwarf Bulrush	T		2007
BROOKFIELD	Vascular Plant	Myriophyllum alterniflorum	Alternate-flowered Water-milfoil	E		1898
BROOKFIELD	Vascular Plant	Poa saltuensis ssp. languida	Drooping Speargrass	E		2000
BROOKFIELD	Vascular Plant	Potamogeton vaseyi	Vasey's Pondweed	E		1998
BROOKFIELD	Vascular Plant	Ranunculus pensylvanicus	Bristly Buttercup	SC		2007
BROOKFIELD	Vascular Plant	Scirpus longii	Long's Bulrush	T		2000

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BROOKLINE	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		Historic

BROOKLINE	Beetle	Cicindela rufiventris hentzii	Hentz's Redbelly Tiger Beetle	T		Historic
BROOKLINE	Bird	Accipiter striatus	Sharp-shinned Hawk	SC		1905
BROOKLINE	Bird	Vermivora chrysoptera	Golden-winged Warbler	E		1932
BROOKLINE	Vascular Plant	Houstonia longifolia	Long-leaved Bluet	E		1897
BROOKLINE	Vascular Plant	Linum medium var. texanum	Rigid Flax	T		1903
BROOKLINE	Vascular Plant	Lipocarpha micrantha	Dwarf Bulrush	T		1902
BROOKLINE	Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T		1912
BROOKLINE	Vascular Plant	Viola brittoniana	Britton's Violet	T		1913

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BUCKLAND	Amphibian	Ambystoma jeffersonianum	Jefferson Salamander	SC		1989
BUCKLAND	Beetle	Cicindela duodecimguttata	Twelve-spotted Tiger Beetle	SC		2001
BUCKLAND	Butterfly/Moth	Erora laeta	Early Hairstreak	T		1988
BUCKLAND	Dragonfly/Damselfly	Boyeria grafiana	Ocellated Darner	SC		2004
BUCKLAND	Dragonfly/Damselfly	Gomphus abbreviatus	Spine-crowned Clubtail	E		2004
BUCKLAND	Dragonfly/Damselfly	Neurocordulia yamaskanensis	Stygian Shadowdragon	SC		2004
BUCKLAND	Dragonfly/Damselfly	Rhionaeschna mutata	Spatterdock Darner	SC		2004
BUCKLAND	Fish	Catostomus catostomus	Longnose Sucker	SC		1989
BUCKLAND	Reptile	Glyptemys insculpta	Wood Turtle	SC		2007
BUCKLAND	Vascular Plant	Alnus viridis ssp. crispa	Mountain Alder	T		2004
BUCKLAND	Vascular Plant	Amelanchier sanguinea	Roundleaf Shadbush	SC		1911
BUCKLAND	Vascular Plant	Aplectrum hyemale	Putty-root	E		1904
BUCKLAND	Vascular Plant	Corallorhiza odontorhiza	Autumn Coralroot	SC		2006
BUCKLAND	Vascular Plant	Huperzia selago	Mountain Firmoss	E		1899
BUCKLAND	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1913
BUCKLAND	Vascular Plant	Platanthera dilatata	Leafy White Orchis	T		1932
BUCKLAND	Vascular Plant	Sanicula odorata	Long-styled Sanicle	T		1907
BUCKLAND	Vascular Plant	Symphyotrichum tradescantii	Tradescant's Aster	T		2002

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent

					Observation
BURLINGTON	Fish	Notropis bifrenatus	Bridle Shiner	SC	1994
BURLINGTON	Reptile	Terrapene carolina	Eastern Box Turtle	SC	1998
BURLINGTON	Vascular Plant	Carex polymorpha	Variable Sedge	E	2008
BURLINGTON	Vascular Plant	Nabalus serpentarius	Lion's Foot	E	1906

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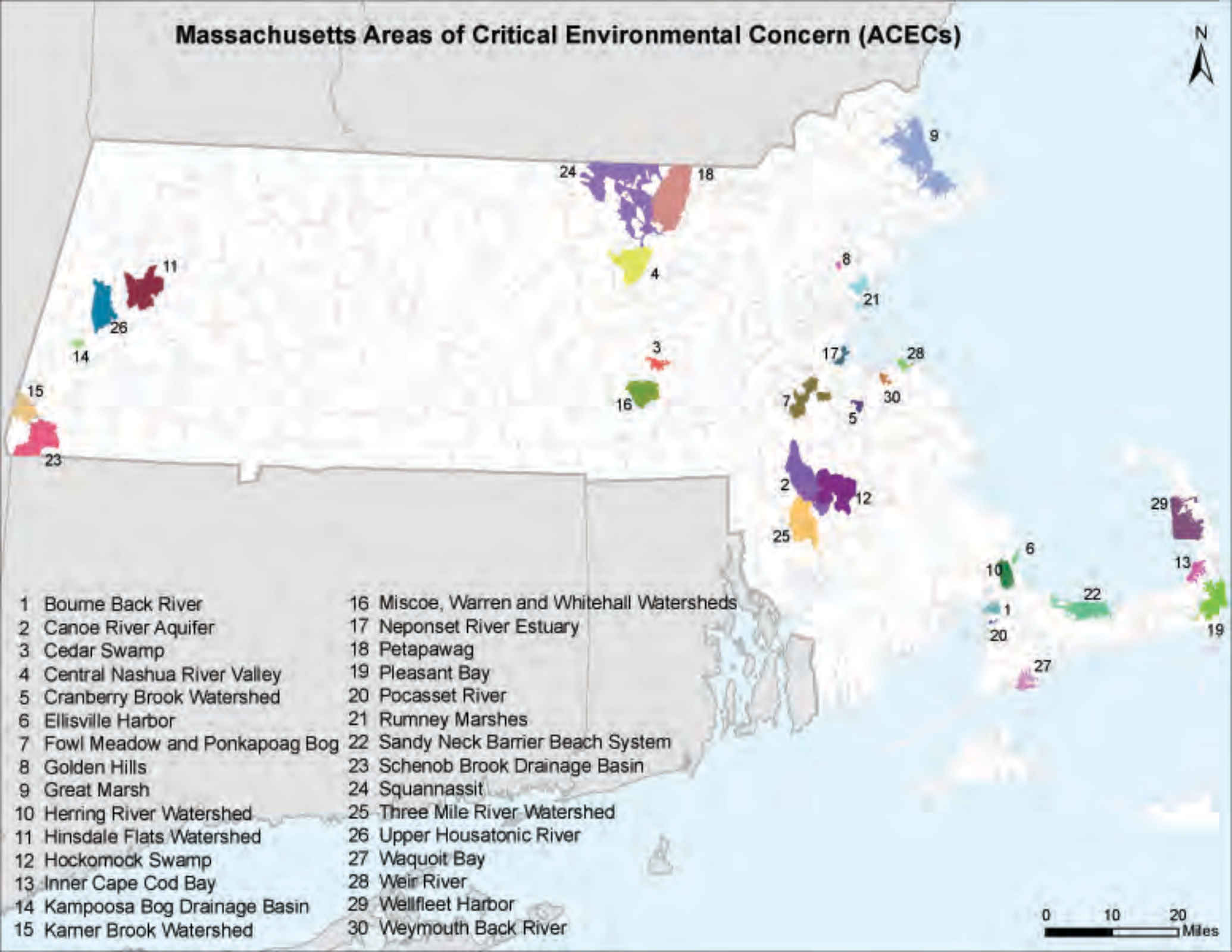
Updated: October 27, 2009

Massachusetts Division of Fisheries and Wildlife, 1 Rabbit Hill Rd, Westborough, MA 01581
Tel: (508) 389-6300; Fax: (508) 389-7890
Natural Heritage & Endangered Species Program Tel: (508) 389-6360; Fax: (508) 389-7891

Massachusetts Areas of Critical Environmental Concern (ACECs)



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

MassDEP - Bureau of Waste Site Cleanup

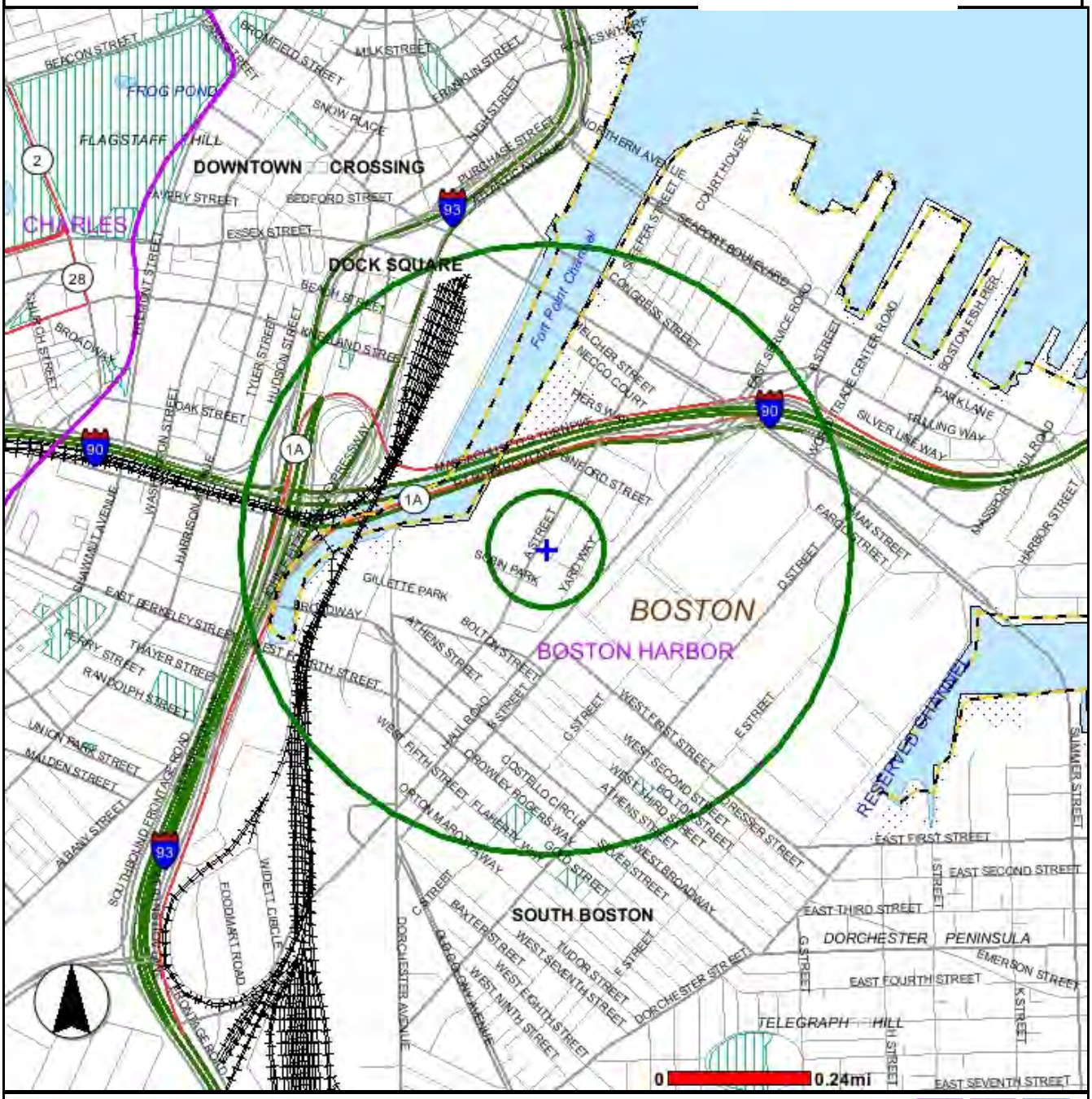
MCP Numerical Ranking System Map: 500 feet & 0.5 Mile Radii

Site Name:
One Channel Center
Boston, MA
RTN: 3-000022227
NAD83 MA Coordinates:
236891mE, 899494mN

April 18, 2012

The information shown on this map is the best available at the date of printing. For more information please refer to www.mass.gov/mgis/massgis.htm

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



APPENDIX D

National Register of Historic Places and Massachusetts Historical Commission Documentation

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National Park Service
U.S. Department of the Interior

National Register of Historic Places

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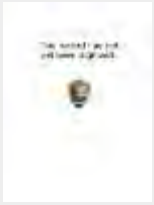

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Publisher: National Park Service

Published: 06/26/1986

Access: Public access

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Format/Size: Physical document with text, photos and map

Language: eng: English

Note: 135 A St.

Item No.: 86001378 *NRIS (National Register Information System)*

Subject: ARCHITECTURE/ENGINEERING

Subject: ARCHITECTURE

Subject: INTERNATIONAL STYLE

Subject: BUILDING

Subject: 1925-1949

Keywords: Underwood,Gilbert Stanley;Grade & Volpe,Inc.;1940;1941

Place: MASSACHUSETTS -- Suffolk County -- South Boston

Record Number: 403342

Record Owner: National Register of Historic Places

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Criteria: Town(s): Boston; Place: Fort Point Channel; Resource Type(s): Area, Building;

Inv. No.	Property Name	Street	Town	Year
BOS.CX	Fort Point Channel District		Boston	
BOS.WZ	Fort Point Channel Historic District		Boston	
BOS.ZG	Fort Point Channel Landmark District		Boston	
BOS.5498	Boston Wharf Company Warehouse	168-170 A St	Boston	1897
BOS.5499	Boston Wharf Company Warehouse	169 A St	Boston	1919
BOS.5500	Boston Wharf Company Warehouse	172-174 A St	Boston	1897
BOS.5501	Boston Wharf Company Warehouse	176-178 A St	Boston	1897
BOS.5502	Boston Wharf Company Warehouse	191-205 A St	Boston	1919
BOS.5503	Boston Wharf Company Building	207-209 A St	Boston	1916
BOS.5504	Boston Wharf Company Building	211-213 A St	Boston	1915
BOS.5505	Boston Wharf Company Warehouse	215-225 A St	Boston	1922
BOS.5506	Boston Wharf Company Warehouse	227-229 A St	Boston	1903
BOS.5507	Barlow, Frederick Building	239-241 A St	Boston	1895
BOS.5508	Factory Buildings Trust Industrial Building #5	249-255 A St	Boston	1895
BOS.5509	Keith, George E. Shoe Factory	288-304 A St	Boston	1912
BOS.5510	Boston Wharf Company Warehouse	289-293 A St	Boston	1893
BOS.5511	Boston Wharf Company Warehouse	319-321 A St	Boston	1913
BOS.15340	Dwinell - Wright Company Warehouse	319R A St	Boston	1923
BOS.15341	Dwinell - Wright Company Warehouse	323 A St	Boston	1904
BOS.15342	A Street Deli	324 A St	Boston	1945
BOS.15343	Boston Button Company Warehouse	326 A St	Boston	1889
BOS.5512	Factory Buildings Trust Industrial Building #1	14-18 Binford St	Boston	1895
BOS.5513	Factory Buildings Trust Industrial Building #2	22-30 Binford St	Boston	1895
BOS.5514	Factory Buildings Trust Industrial Building #3	32-40 Binford St	Boston	1895
BOS.5515	Factory Buildings Trust Industrial Building #4	42-48 Binford St	Boston	1895
BOS.5546	Boston Wharf Company Warehouse	1-5 Channel Center St	Boston	1916
BOS.5547	Boston Wharf Company Warehouse	1-5 Channel Center St	Boston	1914
BOS.5548	Abbott, W. Herbert, Inc. Building	1-5 Channel Center St	Boston	1913
BOS.5543	Boston Wharf Company Warehouse	15 Channel Center St	Boston	1914

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Criteria: Town(s): Boston; Place: Fort Point Channel; Resource Type(s): Area, Building;

Inv. No.	Property Name	Street	Town	Year
BOS.5544	Boston Wharf Company Warehouse	15 Channel Center St	Boston	1911
BOS.5545	Boston Wharf Company Warehouse	15 Channel Center St	Boston	1912
BOS.5541	Boston Wharf Company Warehouse	35 Channel Center St	Boston	1902
BOS.15344	Congress Street Bridge Tenders House	Congress St	Boston	1930
BOS.15345		305 Congress St	Boston	1983
BOS.5516	New Haven Terminal Stores	308-316 Congress St	Boston	1890
BOS.15346	Hood, H. P. Milk Bottle	308 Congress St	Boston	1934
BOS.15347	Lombard's Congress Street Stores	313 Congress St	Boston	1886
BOS.5517	Boston Wharf Company Building	320-324 Congress St	Boston	1888
BOS.5518	Boston Wharf Company Warehouse	326-330 Congress St	Boston	1888
BOS.5519	Boston Wharf Company Warehouse	332-336 Congress St	Boston	1892
BOS.5520	American Railway Express Company Stable	343 Congress St	Boston	1888
BOS.5521	Congress Street Fire Station	344-346 Congress St	Boston	1891
BOS.5522	Chase and Company Candy Company Factory	347-351 Congress St	Boston	1887
BOS.5523	Boston Wharf Company Warehouse	348-352 Congress St	Boston	1894
BOS.5524	Boston Wharf Company Warehouse	354-358 Congress St	Boston	1900
BOS.5525	Tremont Electric Lighting Company	355-359 Congress St	Boston	1905
BOS.5526	Boston Wharf Company Building	364-372 Congress St	Boston	1901
BOS.5527	Boston Wharf Company Wool Warehouse	369-375 Congress St	Boston	1918
BOS.5528	Boston Wharf Company Building	374-384 Congress St	Boston	1903
BOS.5529	Boston Wharf Company Building	381-389 Congress St	Boston	1907
BOS.5530	Boston Wharf Company Wool Warehouse	11-15 Farnsworth St	Boston	1893
BOS.5531	Boston Wharf Company Building	12-22 Farnsworth St	Boston	1917
BOS.15348	Farnsworth Street Garage	17-31 Farnsworth St	Boston	1987
BOS.5532	Boston Wharf Company Building	24-32 Farnsworth St	Boston	1895
BOS.5533	Boston Wharf Company Building	33-39 Farnsworth St	Boston	1909
BOS.5534	Boston Wharf Company Building	34-36 Farnsworth St	Boston	1909
BOS.5535	Boston Wharf Company Building	41-45 Farnsworth St	Boston	1908
BOS.5536	Boston Wharf Company Building	44-54 Farnsworth St	Boston	1915
BOS.5537	Boston Wharf Company Warehouse	47-53 Farnsworth St	Boston	1895
BOS.5576	Boston Wharf Company Wool Warehouse	10 Melcher St	Boston	1903
BOS.15349	Boston Wharf Company Offices	10 Melcher St	Boston	1905
BOS.15350	New England Confectionary Company	11-17 Melcher St	Boston	1902

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Criteria: Town(s): Boston; Place: Fort Point Channel; Resource Type(s): Area, Building;

Inv. No.	Property Name	Street	Town	Year
BOS.15351	New England Confectionary Company	19-27 Melcher St	Boston	1902
BOS.15352	New England Confectionary Company	29-37 Melcher St	Boston	1902
BOS.5538	Boston Wharf Company Building	49 Melcher St	Boston	1910
BOS.5539	Boston Wharf Company Building	51-61 Melcher St	Boston	1916
BOS.5540	French, Shriner and Urner Shoe Manufacturing Co.	63 Melcher St	Boston	1909
BOS.5542	Boston Wharf Company Warehouse	18-22 Midway St	Boston	1912
BOS.5549	Boston Wharf Company Warehouse	76-82 Midway St	Boston	1905
BOS.5551	Boston Wharf Company Building	5 Necco Ct	Boston	1907
BOS.15353	New England Confectionary Company	5 Necco Ct	Boston	1907
BOS.5550	Boston Wharf Company Building	6 Necco Ct	Boston	1907
BOS.15354	New England Confectionary Company	6 Necco Ct	Boston	1907
BOS.15355	Necco Street Garage	10 Necco St	Boston	1992
BOS.15356	Northern Avenue Draw Bridge Tenders House	Northern Ave	Boston	1908
BOS.5561	Boston Wharf Company Building	15-21 Sleeper St	Boston	1911
BOS.5562	Boston Wharf Company Building	29-31 Sleeper St	Boston	1915
BOS.5563	Boston Wharf Company Building	35-37 Sleeper St	Boston	1911
BOS.5564	United Shoe Machine Corporation	51 Sleeper St	Boston	1929
BOS.5565	Boston Wharf Company Iron Warehouse	5-9 Stillings St	Boston	1907
BOS.5566	Boston Wharf Company Paint Warehouse	11-15 Stillings St	Boston	1907
BOS.15364	Stillings Street Garage	11-23 Stillings St	Boston	2001
BOS.5567	Boston Wharf Company Radiator Warehouse	17-27 Stillings St	Boston	1905
BOS.5568	Boston Wharf Company Warehouse	29 Stillings St	Boston	1926
BOS.5569	Boston Wharf Company Iron Warehouse	35-37 Stillings St	Boston	1913
BOS.5570	Boston Wharf Company Warehouse	38-40 Stillings St	Boston	1913
BOS.5572	Boston Wharf Company Iron and Oil Warehouse	43 Stillings St	Boston	1904
BOS.5571	Boston Wharf Company Wholesale Grocery Warehouse	44-48 Stillings St	Boston	1914
BOS.5573	Boston Wharf Company Wool Warehouse	250-254 Summer St	Boston	1899
BOS.5574	New England Confectionary Company Factory	253 Summer St	Boston	1902
BOS.5575	Boston Wharf Company Wool Warehouse	256-260 Summer St	Boston	1899
BOS.5577	Boston Wharf Company Wool Warehouse	262-266 Summer St	Boston	1899
BOS.5578	Boston Wharf Company Wool Warehouse	268-272 Summer St	Boston	1898
BOS.5579	Boston Wharf Company Wool Warehouse	269-273 Summer St	Boston	1910
BOS.5580	Boston Wharf Company Wool Warehouse	274-278 Summer St	Boston	1898

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Criteria: Town(s): Boston; Place: Fort Point Channel; Resource Type(s): Area, Building;

Inv. No.	Property Name	Street	Town	Year
BOS.5581	United States Rubber Company Warehouse	280-290 Summer St	Boston	1898
BOS.5582	Boston Wharf Company Wool Warehouse	281-283 Summer St	Boston	1904
BOS.5583	Boston Wharf Company Wool Warehouse	285-297 Summer St	Boston	1903
BOS.5584	Williams, J. and Company Wool Warehouse	292-302 Summer St	Boston	1898
BOS.5585	Dwinell-Wright Coffee Importing Company Warehouse	311-319 Summer St	Boston	1904
BOS.5586	Boston Wharf Company Wool Warehouse	312-320 Summer St	Boston	1904
BOS.5587	Howes Brothers Tanning Company	321-325 Summer St	Boston	1911
BOS.5588	Foster, F. A. Dry Goods - Puritan Drapery Fabrics	322-330 Summer St	Boston	1910
BOS.5589	Daylight Baking Supplies Factory	327-333 Summer St	Boston	1911
BOS.15357	Middleby, Joseph Jr. Warehouse	337-347 Summer St	Boston	1907
BOS.5552	Boston Wharf Company Building	12-18 Thomson Pl	Boston	1907
BOS.5553	Boston Wharf Company Paint and Varnish Warehouse	19-23 Thomson Pl	Boston	1907
BOS.15358	Thomson Financial Offices	22-24 Thomson Pl	Boston	1992
BOS.5554	Boston Wharf Company Warehouse	25-27 Thomson Pl	Boston	1909
BOS.5555	Boston Wharf Company Building	26-28 Thomson Pl	Boston	1908
BOS.15359	Boston Wharf Company Building	29-33 Thomson Pl	Boston	1912
BOS.5556	Boston Wharf Company Building	30-34 Thomson Pl	Boston	1916
BOS.15360	Boston Wharf Company Building	35-37 Thomson Pl	Boston	1913
BOS.5557	Boston Wharf Company Building	36-40 Thomson Pl	Boston	1900
BOS.5558	Boston Wharf Company Warehouse	41-45 Thomson Pl	Boston	1924
BOS.5559	Pittsburgh Plate Glass Company Warehouse	42-56 Thomson Pl	Boston	1909
BOS.5560	Boston Wharf Company Warehouse	47-55 Thomson Pl	Boston	1924
BOS.15361	Factory Buildings Trust Industrial Building #2	21 Wormwood St	Boston	1896
BOS.15365	Factory Buildings Trust Industrial Building #3	23-27 Wormwood St	Boston	1896
BOS.15362	Factory Buildings Trust Industrial Building #4	33-37 Wormwood St	Boston	1897
BOS.15363	Factory Buildings Trust Industrial Building #5	41-45 Wormwood St	Boston	1896

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National Register of Historic Places Program: Research

The National Register of Historic Places is the official list of the Nation's historic places worthy of preservation. Authorized by the National Historic Preservation Act of 1966, the National Park Service's National Register of Historic Places is part of a national program to coordinate and support public and private efforts to identify, evaluate, and protect America's historic and archeological resources.

To search for properties listed in the National Register use the

National Register of Historic Places database

Since its inception in 1966, more than 80,000 properties have been listed in the National Register. Together these records hold information on more than 1.4 million individual resources--buildings, sites, districts, structures, and objects--and therefore provide a link to the country's heritage at the national, state, and local levels.

The Documentation consists of

• National Register registration form, which provides a physical description of the place, information about its history and significance, and a bibliography.

• Photographs
• Maps (We are plotting our properties into Google Earth layers)

• Use of photographs and forms is available under Fair Use, see our Content and Copyright page for more information

Examine sample National Register nominations by looking at our Sample Nominations page or a highlighted property in our weekly list.

Research our Collection:

• We are currently digitizing our records and have put many of them online in our database at: http://nrhp.focus.nps.gov/

• Our database contains digitized files for National Historic Landmarks, National Park properties that are listed in the National Register, Multiple Property (MPS) Covers, and the files for many states.

• The download center has many useful finding aids: for historic contexts (MPS Covers), all listed properties, and Determinations of Eligibility.

• Visit our archives. Open Monday through Friday 9:00am to noon. For security reasons, an appointment is necessary to access our building. To schedule an appointment please contact Jeff Joeckel: 202-354-2225 or e-mail

• Many State Historic Preservation Offices (SHPOs) have digitized their files and put them online. The depth of information available varies from state to state, but ranges from basic locational information to searchable databases with downloadable narrative descriptions and photos. You can check their websites to see if they have the information you need. List of SHPOs extended information.

• Request copies of individual nominations either via e-mailplease include your mailing address and the property name, county, and state. or postal mail:
National Register of Historic Places
National Park Service
1849 C St., NW (MS 2280)
Washington, DC 20240

Please note, due to irradiation of USPS mail in Washington, DC, we recommend sending official correspondence to us by direct or overnight mail at the following address:

1201 Eye St., NW
8th Floor (MS 2280)
Washington, DC 20005

Quicklinks

- Search the National Register Database
- Find out what we listed this past week
- What's New / Features / Calendar of Events

Find Out About: Bethel Baptist Church, Parsonage, and Guard House
Even dynamite couldn't stop this Birmingham , Alabama , community! Here you can explore the infamous Bethel Baptist Church and its prominent place in Civil Rights history.

National Register Research

National Register of Historic Places database

Since its inception in 1966, more than 80,000 properties have been listed in the National Register. Together these records hold information on more than 1.4 million individual resources--buildings, sites, districts, structures, and objects--and therefore provide a link to the country's heritage at the national, state, and local levels.

The Documentation consists of

- National Register registration form, which provides a physical description of the place, information about its history and significance, and a bibliography.
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Examine sample National Register nominations by looking at our **Sample Nominations** page or a highlighted property in our **weekly list.**

Research our Collection:

- We are currently digitizing our records and have put many of them online in our **database at: http://nrhp.focus.nps.gov/**
- Our older database, the NRIS, is still online at: **http://www.nr.nps.gov/.** The NRIS is good for looking at MPS covers.
- Visit our archives. Open Monday through Friday 9:00am to noon . For security reasons, an appointment is necessary to access our building. To schedule an appointment please contact Ricah Marquez: 202-354-2226 or **e-mail**
- Many State Historic Preservation Offices (SHPOs) have digitized their files and put them online. The depth of information available varies from state to state, but ranges from basic locational information to searchable databases with downloadable narrative descriptions and photos. You can check their websites to see if they have the information you need. **List of SHPOs extended information.**
- Request copies of individual nominations either via **e-mail** please include your mailing address and the property name, county, and state. or postal mail:
  National Register of Historic Places
  National Park Service
  1839 C St., NW (MS 2280)
  Washington, DC 20240

  Please note, due to irradiation of USPS mail in Washington, DC, we recommend sending official correspondence to us by direct or overnight mail at the following address:

  1201 Eye St., NW
  8th Floor (MS 2280)
  Washington, DC 20005

Did You Know? Joachim de Brum House
The Joachim de Brum House is the only plantation home in the Marshall Islands. Wealthy foreigners and their servants used Brum House over the years. It reflects the architecture and style of the native culture.

APPENDIX E

Boston Water and Sewer Commission
Dewatering Permit Application

Boston Water and Sewer Commission
980 Harrison Avenue
Boston, MA 02119-2540

DEWATERING DISCHARGE PERMIT APPLICATION

OWNER / AUTHORIZED APPLICANT PROVIDE INFORMATION HERE:

Company Name: AP CV CCSS Holdings LLC Address: 10 Channel Center Street, Suite 500, Boston, MA 02210

Phone number: 617-423-6203 Fax number: 617-423-6270

Contact person name: Richard A. Galvin Title: Authorized Representative

Cell number: 203-545-6660 Email address: dickgalvin4@aol.com

Permit Request (check one): ☒ New Application ☐ Permit Extension ☐ Other (Specify):_____

Owner's Information (if different from above):

Owner of property being dewatered: Channel Center Holdings VAF, LLC c/o Commonwealth Ventures

Owner's mailing address: 10 Channel Center Street, Boston, MA 02210 Phone number: 617-423-6203

Location of Discharge & Proposed Treatment System(s):

Street number and name: 1 Iron Street Neighborhood South Boston, MA

Discharge is to a: ☐ Sanitary Sewer ☐ Combined Sewer ☒ Storm Drain ☐ Other (specify):_____

Describe Proposed Pre-Treatment System(s): OIL WATER SEPARATOR, SEDIMENTATION TANK, BAG FILTERS, & TREATMENT TO REMOVE IRON AND CYANIDE

BWSC Outfall No. BOS073 Receiving Waters Fort Point Channel

Temporary Discharges (Provide Anticipated Dates of Discharge): From JULY 2012 To JULY 2015

☐ Groundwater Remediation	☐ Tank Removal/Installation	☒ Foundation Excavation
☐ Utility/Manhole Pumping	☐ Test Pipe	☒ Trench Excavation
☐ Accumulated Surface Water	☐ Hydrogeologic Testing	☐ Other _____

Permanent Discharges

☐ Foundation Drainage	☐ Crawl Space/Footing Drain
☐ Accumulated Surface Water	☐ Non-contact/Uncontaminated Cooling
☐ Non-contact/Uncontaminated Process	☐ Other; _____

---

1. Attach a Site Plan showing the source of the discharge and the location of the point of discharge (i.e. the sewer pipe or catch basin). Include meter type, meter number, size, make and start reading. Note. All discharges to the Commission's sewer system will be assessed current sewer charges.
2. If discharging to a sanitary or combined sewer, attach a copy of MWRA's Sewer Use Discharge permit or application.
3. If discharging to a separate storm drain, attach a copy of EPA's NPDES Permit or NOI application, or NPDES Permit exclusion letter for the discharge, as well as other relevant information.
4. Dewatering Drainage Permit will be denied or revoked if applicant fails to obtain the necessary permits from MWRA or EPA.

Submit Completed Application to: Boston Water and Sewer Commission
Engineering Customer Services
980 Harrison Avenue, Boston, MA 02119
Attn: Francis M. McLaughlin, Manager Engineering Customer Services
E-mail: MclaughlinF@bwsc.org
Phone: 617-989-7208 Fax: 617-989-7716

BWSC Use Only: Date Received _____ Comments: _____

APPENDIX F

Laboratory Data Reports

ANALYTICAL REPORT

Lab Number:	L1204697
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Sandhya Potana
Phone:	(617) 886-7484
Project Name:	1 CHANNEL ST.
Project Number:	26135-800
Report Date:	03/26/12

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1204697-01	2CC-4	Not Specified	03/20/12 10:20
L1204697-02	TRIP BLANK_504	Not Specified	03/20/12 00:00
L1204697-03	TRIP BLANK_8260	Not Specified	03/20/12 00:00

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697
Project Number: 26135-800 **Report Date:** 03/26/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

Please contact Client Services at 800-624-9220 with any questions.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

The WG524584-1/-2 LCS/LCSD recoveries, associated with L1204697-01 and -03, are below the individual acceptance criteria for Chloromethane (48%/46%) and 2,2-Dichloropropane (LCS at 56%), but within the overall method allowances. The results of the associated samples are reported.

The WG524584-1/-2 LCS/LCSD RPDs, associated with L1204697-01 and -03, are above the acceptance criteria for o-Xylene (23%), 1,4-Dichlorobutane (27%), Styrene (22%), Carbon disulfide (25%), Vinyl acetate

Project Name:	1 CHANNEL ST.	**Lab Number:**	L1204697
Project Number:	26135-800	**Report Date:**	03/26/12

Case Narrative (continued)

(23%), 2-Hexanone (21%), Ethyl methacrylate (29%), Tetrahydrofuran (22%), 2,2-Dichloropropane (29%), n-Butylbenzene (24%), sec-Butylbenzene (21%), tert-Butylbenzene (22%), Hexachlorobutadiene (26%), p-Isopropyltoluene (23%), 1,2,4-Trimethylbenzene (22%), trans-1,4-Dichloro-2-butene (27%), tert-Butyl Alcohol (26%), and Tertiary-Amyl Methyl Ether (22%).

Semivolatile Organics

The surrogate recovery for L1204697-01 is outside the individual acceptance criteria for 2,4,6-Tribromophenol (125%), but within the overall method allowances. The results of the original analysis are reported.

The WG524361-2/-3 LCS/LCSD recoveries, associated with L1204697-01, are outside the individual acceptance criteria for 2,4-Dinitrotoluene (121%/121%), Bis(2-ethylhexyl)phthalate (142%/146%), Di-n-octylphthalate (145%/143%), Aniline (32%/32%), and P-Chloro-M-Cresol (110%/111%), but within the overall method allowances. The results of the associated sample are reported.

Dissolved Metals

The WG524544-1 Method Blank, associated with L1204697-01, has a concentration above the reporting limit for Arsenic; however, re-digestion could not be performed due to lack of additional sample volume. The results of the original analyses are reported and are qualified with a "B".

The WG524545-1 Method Blank, associated with L1204697-01, has a concentration above the reporting limit for Iron. Since the associated sample concentration is greater than 10x the Method Blank concentration for this analyte, no qualification of the results was performed.

The WG524544-4 MS recovery, performed on L1204697-01, is below the acceptance criteria for Selenium (182%). A post digestion spike was performed with an acceptable recovery of 102%.

The WG524545-4 MS recovery for Iron (130%), performed on L1204697-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG524544-3 Laboratory Duplicate RPD, performed on L1204697-01, is outside the acceptance criteria for Arsenic (47%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the Laboratory Duplicate.

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697
Project Number: 26135-800 **Report Date:** 03/26/12

Case Narrative (continued)

Chlorine, Total Residual

L1204697-01 has an elevated detection limit due to the dilution required by the sample matrix.

WG524179: A Laboratory Duplicate could not be performed due to insufficient sample volume available for analysis.

Phenolics, Total

L1204697-01 has an elevated detection limit due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Elizabeth Simmons

Title: Technical Director/Representative Date: 03/26/12

ORGANICS

VOLATILES

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

SAMPLE RESULTS

Lab ID: L1204697-01
Client ID: 2CC-4
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 03/22/12 13:05
Analyst: PD

Date Collected: 03/20/12 10:20
Date Received: 03/20/12
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	3.6		ug/l	0.50	--	1
Toluene	1.4		ug/l	0.75	--	1
Ethylbenzene	3.8		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

SAMPLE RESULTS

Lab ID: L1204697-01 Date Collected: 03/20/12 10:20

Client ID: 2CC-4 Date Received: 03/20/12

Sample Location: Not Specified Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	9.4		ug/l	1.0	--	1
o-Xylene	1.4		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	18		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	0.64		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	6.0		ug/l	2.5	--	1
n-Propylbenzene	0.81		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	5.5		ug/l	2.5	--	1

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

SAMPLE RESULTS

Lab ID: L1204697-01 Date Collected: 03/20/12 10:20

Client ID: 2CC-4 Date Received: 03/20/12

Sample Location: Not Specified Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1
Tert-Butyl Alcohol	ND		ug/l	10	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: 1 CHANNEL ST.
Lab Number: L1204697
Project Number: 26135-800
Report Date: 03/26/12

SAMPLE RESULTS

Lab ID:	L1204697-01	Date Collected:	03/20/12 10:20
Client ID:	2CC-4	Date Received:	03/20/12
Sample Location:	Not Specified	Field Prep:	See Narrative
Matrix:	Water		
Analytical Method:	1,8260B(M)		
Analytical Date:	03/22/12 13:05		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	--	1

Project Name: 1 CHANNEL ST.
Lab Number: L1204697
Project Number: 26135-800
Report Date: 03/26/12

SAMPLE RESULTS

Lab ID:	L1204697-01	Date Collected:	03/20/12 10:20
Client ID:	2CC-4	Date Received:	03/20/12
Sample Location:	Not Specified	Field Prep:	See Narrative
Matrix:	Water		
Analytical Method:	14,504.1	Extraction Date:	03/21/12 09:30
Analytical Date:	03/21/12 11:56		
Analyst:	SH		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Pesticides by GC - Westborough Lab						
1,2-Dibromoethane	ND		ug/l	0.010	--	1

Project Name: 1 CHANNEL ST.
Lab Number: L1204697
Project Number: 26135-800
Report Date: 03/26/12

SAMPLE RESULTS

Lab ID:	L1204697-02	Date Collected:	03/20/12 00:00
Client ID:	TRIP BLANK_504	Date Received:	03/20/12
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	14,504.1	Extraction Date:	03/21/12 09:30
Analytical Date:	03/21/12 12:12		
Analyst:	SH		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Pesticides by GC - Westborough Lab						
1,2-Dibromoethane	ND		ug/l	0.010	--	1

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

SAMPLE RESULTS

Lab ID: L1204697-03
Client ID: TRIP BLANK_8260
Sample Location: Not Specified
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 03/22/12 13:40
Analyst: PD

Date Collected: 03/20/12 00:00
Date Received: 03/20/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Chloroform	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,2-Dichloropropane	ND		ug/l	1.8	--	1
Dibromochloromethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
Chlorobenzene	ND		ug/l	0.50	--	1
Trichlorofluoromethane	ND		ug/l	2.5	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Bromodichloromethane	ND		ug/l	0.50	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.5	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Chloromethane	ND		ug/l	2.5	--	1
Bromomethane	ND		ug/l	1.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

SAMPLE RESULTS

Lab ID: L1204697-03 Date Collected: 03/20/12 00:00

Client ID: TRIP BLANK_8260 Date Received: 03/20/12

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Dibromomethane	ND		ug/l	5.0	--	1
1,4-Dichlorobutane	ND		ug/l	5.0	--	1
1,2,3-Trichloropropane	ND		ug/l	5.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	5.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
Vinyl acetate	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Ethyl methacrylate	ND		ug/l	5.0	--	1
Acrylonitrile	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.5	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.5	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Bromobenzene	ND		ug/l	2.5	--	1
n-Butylbenzene	ND		ug/l	0.50	--	1
sec-Butylbenzene	ND		ug/l	0.50	--	1
tert-Butylbenzene	ND		ug/l	2.5	--	1
o-Chlorotoluene	ND		ug/l	2.5	--	1
p-Chlorotoluene	ND		ug/l	2.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Isopropylbenzene	ND		ug/l	0.50	--	1
p-Isopropyltoluene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	2.5	--	1
n-Propylbenzene	ND		ug/l	0.50	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

SAMPLE RESULTS

Lab ID: L1204697-03 Date Collected: 03/20/12 00:00

Client ID: TRIP BLANK_8260 Date Received: 03/20/12

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1
Tert-Butyl Alcohol	ND		ug/l	10	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	92		70-130

Project Name: 1 CHANNEL ST.
Lab Number: L1204697
Project Number: 26135-800
Report Date: 03/26/12

SAMPLE RESULTS

Lab ID:	L1204697-03	Date Collected:	03/20/12 00:00
Client ID:	TRIP BLANK_8260	Date Received:	03/20/12
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B(M)		
Analytical Date:	03/22/12 13:40		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	--	1

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 14,504.1
Analytical Date: 03/21/12 10:54
Analyst: SH

Extraction Date: 03/21/12 09:30

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG524245-1					
1,2-Dibromoethane	ND		ug/l	0.010	--
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B(M)
Analytical Date: 03/22/12 11:56
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,03 Batch: WG524583-3					
1,4-Dioxane	ND		ug/l	3.0	--

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/22/12 11:56
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG524584-3					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Chloroform	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,2-Dichloropropane	ND		ug/l	1.8	--
Dibromochloromethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
Tetrachloroethene	ND		ug/l	0.50	--
Chlorobenzene	ND		ug/l	0.50	--
Trichlorofluoromethane	ND		ug/l	2.5	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Bromodichloromethane	ND		ug/l	0.50	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.5	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Chloromethane	ND		ug/l	2.5	--
Bromomethane	ND		ug/l	1.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
trans-1,2-Dichloroethene	ND		ug/l	0.75	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--
1,4-Dichlorobenzene	ND		ug/l	2.5	--

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/22/12 11:56
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG524584-3					
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--
Hexachlorobutadiene	ND		ug/l	0.50	--

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 03/22/12 11:56
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG524584-3					
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG524245-2								
1,2-Dibromoethane	112		-		70-130	-		20
1,2-Dibromo-3-chloropropane	104		-		70-130	-		20
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,03 Batch: WG524583-1 WG524583-2								
1,4-Dioxane	78		81		70-130	4		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG524584-1 WG524584-2								
Methylene chloride	90		107		70-130	17		20
1,1-Dichloroethane	94		111		70-130	17		20
Chloroform	94		114		70-130	19		20
Carbon tetrachloride	74		88		63-132	17		20
1,2-Dichloropropane	94		113		70-130	18		20
Dibromochloromethane	81		94		63-130	15		20
1,1,2-Trichloroethane	94		110		70-130	16		20
Tetrachloroethene	90		106		70-130	16		20
Chlorobenzene	85		102		75-130	18		25
Trichlorofluoromethane	113		129		62-150	13		20
1,2-Dichloroethane	103		118		70-130	14		20
1,1,1-Trichloroethane	81		97		67-130	18		20
Bromodichloromethane	91		110		67-130	19		20
trans-1,3-Dichloropropene	75		92		70-130	20		20
cis-1,3-Dichloropropene	78		93		70-130	18		20
1,1-Dichloropropene	93		110		70-130	17		20
Bromoform	77		91		54-136	17		20
1,1,2,2-Tetrachloroethane	92		107		67-130	15		20
Benzene	93		111		70-130	18		25
Toluene	84		103		70-130	20		25
Ethylbenzene	91		109		70-130	18		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG524584-1 WG524584-2								
Chloromethane	**48**	Q	**46**	Q	64-130	4		20
Bromomethane	110		115		39-139	4		20
Vinyl chloride	101		118		55-140	16		20
Chloroethane	97		110		55-138	13		20
1,1-Dichloroethene	90		106		61-145	16		25
trans-1,2-Dichloroethene	91		108		70-130	17		20
Trichloroethene	96		110		70-130	14		25
1,2-Dichlorobenzene	92		109		70-130	17		20
1,3-Dichlorobenzene	91		111		70-130	20		20
1,4-Dichlorobenzene	91		110		70-130	19		20
Methyl tert butyl ether	78		95		63-130	20		20
p/m-Xylene	91		111		70-130	20		20
o-Xylene	89		112		70-130	**23**	Q	20
cis-1,2-Dichloroethene	92		105		70-130	13		20
Dibromomethane	98		112		70-130	13		20
1,4-Dichlorobutane	88		115		70-130	**27**	Q	20
1,2,3-Trichloropropane	96		106		64-130	10		20
Styrene	89		111		70-130	**22**	Q	20
Dichlorodifluoromethane	72		79		36-147	9		20
Acetone	127		133		58-148	5		20
Carbon disulfide	78		100		51-130	**25**	Q	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG524584-1 WG524584-2								
2-Butanone	110		133		63-138	19		20
Vinyl acetate	79		100		70-130	**23**	Q	20
4-Methyl-2-pentanone	93		110		59-130	17		20
2-Hexanone	105		130		57-130	**21**	Q	20
Ethyl methacrylate	75		100		70-130	**29**	Q	20
Acrylonitrile	94		111		70-130	17		20
Bromochloromethane	92		104		70-130	12		20
Tetrahydrofuran	91		114		58-130	**22**	Q	20
2,2-Dichloropropane	**56**	Q	75		63-133	**29**	Q	20
1,2-Dibromoethane	90		102		70-130	13		20
1,3-Dichloropropane	96		110		70-130	14		20
1,1,1,2-Tetrachloroethane	85		102		64-130	18		20
Bromobenzene	91		108		70-130	17		20
n-Butylbenzene	99		126		53-136	**24**	Q	20
sec-Butylbenzene	88		109		70-130	**21**	Q	20
tert-Butylbenzene	88		110		70-130	**22**	Q	20
o-Chlorotoluene	95		115		70-130	19		20
p-Chlorotoluene	94		114		70-130	19		20
1,2-Dibromo-3-chloropropane	88		102		41-144	15		20
Hexachlorobutadiene	85		110		63-130	**26**	Q	20
Isopropylbenzene	89		108		70-130	19		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG524584-1 WG524584-2								
p-Isopropyltoluene	94		119		70-130	**23**	Q	20
Naphthalene	89		99		70-130	11		20
n-Propylbenzene	93		114		69-130	20		20
1,2,3-Trichlorobenzene	91		108		70-130	17		20
1,2,4-Trichlorobenzene	94		112		70-130	17		20
1,3,5-Trimethylbenzene	94		114		64-130	19		20
1,2,4-Trimethylbenzene	92		115		70-130	**22**	Q	20
trans-1,4-Dichloro-2-butene	73		96		70-130	**27**	Q	20
Ethyl ether	91		110		59-134	19		20
tert-Butyl Alcohol	77		100		70-130	**26**	Q	20
Tertiary-Amyl Methyl Ether	76		95		66-130	**22**	Q	20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	116		113		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	104		102		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG524245-3 QC Sample: L1204618-02 Client ID: MS Sample												
1,2-Dibromoethane	ND	0.262	0.261	100		-	-		70-130	-		20
1,2-Dibromo-3-chloropropane	ND	0.262	0.254	97		-	-		70-130	-		20

SEMIVOLATILES

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

SAMPLE RESULTS

Lab ID:	L1204697-01	Date Collected:	03/20/12 10:20
Client ID:	2CC-4	Date Received:	03/20/12
Sample Location:	Not Specified	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	03/21/12 14:49
Analytical Date:	03/23/12 05:25		
Analyst:	JB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND		ug/l	20	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--	1
1,2-Dichlorobenzene	ND		ug/l	2.0	--	1
1,3-Dichlorobenzene	ND		ug/l	2.0	--	1
1,4-Dichlorobenzene	ND		ug/l	2.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--	1
2,4-Dinitrotoluene	ND		ug/l	5.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	2.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	20	--	1
Isophorone	ND		ug/l	5.0	--	1
Nitrobenzene	ND		ug/l	2.0	--	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	--	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Aniline	ND		ug/l	2.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	5.0	--	1
Dibenzofuran	ND		ug/l	2.0	--	1
n-Nitrosodimethylamine	ND		ug/l	2.0	--	1

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

SAMPLE RESULTS

Lab ID: L1204697-01 Date Collected: 03/20/12 10:20

Client ID: 2CC-4 Date Received: 03/20/12

Sample Location: Not Specified Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
P-Chloro-M-Cresol	ND		ug/l	2.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	9.9		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1
4,6-Dinitro-o-cresol	ND		ug/l	10	--	1
Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	6.1		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	2.0	--	1
Carbazole	ND		ug/l	2.0	--	1
Pyridine	ND		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	96		15-120
2,4,6-Tribromophenol	**125**	Q	10-120
4-Terphenyl-d14	105		41-149

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

SAMPLE RESULTS

Lab ID:	L1204697-01	Date Collected:	03/20/12 10:20
Client ID:	2CC-4	Date Received:	03/20/12
Sample Location:	Not Specified	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C-SIM	Extraction Date:	03/21/12 14:52
Analytical Date:	03/22/12 19:23		
Analyst:	JC		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.46		ug/l	0.20	--	1
2-Chloronaphthalene	ND		ug/l	0.20	--	1
Fluoranthene	ND		ug/l	0.20	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Naphthalene	2.6		ug/l	0.20	--	1
Benzo(a)anthracene	ND		ug/l	0.20	--	1
Benzo(a)pyrene	ND		ug/l	0.20	--	1
Benzo(b)fluoranthene	ND		ug/l	0.20	--	1
Benzo(k)fluoranthene	ND		ug/l	0.20	--	1
Chrysene	ND		ug/l	0.20	--	1
Acenaphthylene	ND		ug/l	0.20	--	1
Anthracene	0.20		ug/l	0.20	--	1
Benzo(ghi)perylene	ND		ug/l	0.20	--	1
Fluorene	ND		ug/l	0.20	--	1
Phenanthrene	ND		ug/l	0.20	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	--	1
Pyrene	ND		ug/l	0.20	--	1
1-Methylnaphthalene	0.89		ug/l	0.20	--	1
2-Methylnaphthalene	0.35		ug/l	0.20	--	1
Pentachlorophenol	ND		ug/l	0.80	--	1
Hexachlorobenzene	ND		ug/l	0.80	--	1
Hexachloroethane	ND		ug/l	0.80	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	33		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	90		41-149

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 03/22/12 19:24
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 03/21/12 14:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG524361-1					
Benzidine	ND		ug/l	20	--
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--
1,2-Dichlorobenzene	ND		ug/l	2.0	--
1,3-Dichlorobenzene	ND		ug/l	2.0	--
1,4-Dichlorobenzene	ND		ug/l	2.0	--
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--
2,4-Dinitrotoluene	ND		ug/l	5.0	--
2,6-Dinitrotoluene	ND		ug/l	5.0	--
Azobenzene	ND		ug/l	2.0	--
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--
Hexachlorocyclopentadiene	ND		ug/l	20	--
Isophorone	ND		ug/l	5.0	--
Nitrobenzene	ND		ug/l	2.0	--
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	--
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	--
Butyl benzyl phthalate	ND		ug/l	5.0	--
Di-n-butylphthalate	ND		ug/l	5.0	--
Di-n-octylphthalate	ND		ug/l	5.0	--
Diethyl phthalate	ND		ug/l	5.0	--
Dimethyl phthalate	ND		ug/l	5.0	--
Aniline	ND		ug/l	2.0	--
4-Chloroaniline	ND		ug/l	5.0	--
2-Nitroaniline	ND		ug/l	5.0	--
3-Nitroaniline	ND		ug/l	5.0	--
4-Nitroaniline	ND		ug/l	5.0	--
Dibenzofuran	ND		ug/l	2.0	--
n-Nitrosodimethylamine	ND		ug/l	2.0	--

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 03/22/12 19:24
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 03/21/12 14:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG524361-1					
2,4,6-Trichlorophenol	ND		ug/l	5.0	--
P-Chloro-M-Cresol	ND		ug/l	2.0	--
2-Chlorophenol	ND		ug/l	2.0	--
2,4-Dichlorophenol	ND		ug/l	5.0	--
2,4-Dimethylphenol	ND		ug/l	5.0	--
2-Nitrophenol	ND		ug/l	10	--
4-Nitrophenol	ND		ug/l	10	--
2,4-Dinitrophenol	ND		ug/l	20	--
4,6-Dinitro-o-cresol	ND		ug/l	10	--
Phenol	ND		ug/l	5.0	--
2-Methylphenol	ND		ug/l	5.0	--
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--
2,4,5-Trichlorophenol	ND		ug/l	5.0	--
Benzoic Acid	ND		ug/l	50	--
Benzyl Alcohol	ND		ug/l	2.0	--
Carbazole	ND		ug/l	2.0	--
Pyridine	ND		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	96		41-149

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C-SIM
Analytical Date: 03/22/12 17:36
Analyst: JC

Extraction Method: EPA 3510C
Extraction Date: 03/21/12 14:52

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG524363-1					
Acenaphthene	ND		ug/l	0.20	--
2-Chloronaphthalene	ND		ug/l	0.20	--
Fluoranthene	ND		ug/l	0.20	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	0.20	--
Benzo(a)anthracene	ND		ug/l	0.20	--
Benzo(a)pyrene	ND		ug/l	0.20	--
Benzo(b)fluoranthene	ND		ug/l	0.20	--
Benzo(k)fluoranthene	ND		ug/l	0.20	--
Chrysene	ND		ug/l	0.20	--
Acenaphthylene	ND		ug/l	0.20	--
Anthracene	ND		ug/l	0.20	--
Benzo(ghi)perylene	ND		ug/l	0.20	--
Fluorene	ND		ug/l	0.20	--
Phenanthrene	ND		ug/l	0.20	--
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	--
Pyrene	ND		ug/l	0.20	--
1-Methylnaphthalene	ND		ug/l	0.20	--
2-Methylnaphthalene	ND		ug/l	0.20	--
Pentachlorophenol	ND		ug/l	0.80	--
Hexachlorobenzene	ND		ug/l	0.80	--
Hexachloroethane	ND		ug/l	0.80	--

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C-SIM
Analytical Date: 03/22/12 17:36
Analyst: JC

Extraction Method: EPA 3510C
Extraction Date: 03/21/12 14:52

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG524363-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	79		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG524361-2 WG524361-3								
Benzidine	50		59			17		30
1,2,4-Trichlorobenzene	76		78		39-98	3		30
Bis(2-chloroethyl)ether	69		70		40-140	1		30
1,2-Dichlorobenzene	70		72		40-140	3		30
1,3-Dichlorobenzene	67		71		40-140	6		30
1,4-Dichlorobenzene	66		70		36-97	6		30
3,3'-Dichlorobenzidine	110		107		40-140	3		30
2,4-Dinitrotoluene	**121**	Q	**121**	Q	24-96	0		30
2,6-Dinitrotoluene	122		123		40-140	1		30
Azobenzene	109		110		40-140	1		30
4-Chlorophenyl phenyl ether	96		96		40-140	0		30
4-Bromophenyl phenyl ether	114		116		40-140	2		30
Bis(2-chloroisopropyl)ether	77		80		40-140	4		30
Bis(2-chloroethoxy)methane	83		83		40-140	0		30
Hexachlorocyclopentadiene	46		53		40-140	14		30
Isophorone	86		85		40-140	1		30
Nitrobenzene	79		83		40-140	5		30
NitrosoDiPhenylAmine(NDPA)/DPA	105		104		40-140	1		30
Bis(2-Ethylhexyl)phthalate	**142**	Q	**146**	Q	40-140	3		30
Butyl benzyl phthalate	128		129		40-140	1		30
Di-n-butylphthalate	116		116		40-140	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG524361-2 WG524361-3								
Di-n-octylphthalate	**145**	Q	**143**	Q	40-140	1		30
Diethyl phthalate	113		115		40-140	2		30
Dimethyl phthalate	104		104		40-140	0		30
Aniline	**32**	Q	**32**	Q	40-140	0		30
4-Chloroaniline	78		78		40-140	0		30
2-Nitroaniline	118		119		52-143	1		30
3-Nitroaniline	94		95		25-145	1		30
4-Nitroaniline	103		106		51-143	3		30
Dibenzofuran	91		90		40-140	1		30
n-Nitrosodimethylamine	37		38			3		30
2,4,6-Trichlorophenol	111		109		30-130	2		30
P-Chloro-M-Cresol	**110**	Q	**111**	Q	23-97	1		30
2-Chlorophenol	74		74		27-123	0		30
2,4-Dichlorophenol	92		92		30-130	0		30
2,4-Dimethylphenol	85		80		30-130	6		30
2-Nitrophenol	87		87		30-130	0		30
4-Nitrophenol	78		79		10-80	1		30
2,4-Dinitrophenol	98		103		20-130	5		30
4,6-Dinitro-o-cresol	114		116		20-164	2		30
Phenol	41		42		12-110	2		30
2-Methylphenol	78		77		30-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG524361-2 WG524361-3								
3-Methylphenol/4-Methylphenol	77		75		30-130	3		30
2,4,5-Trichlorophenol	122		123		30-130	1		30
Benzoic Acid	35		32			9		30
Benzyl Alcohol	77		79			3		30
Carbazole	102		104		55-144	2		30
Pyridine	30		30		10-66	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	52		52		21-120
Phenol-d6	41		41		10-120
Nitrobenzene-d5	82		83		23-120
2-Fluorobiphenyl	91		91		15-120
2,4,6-Tribromophenol	115		115		10-120
4-Terphenyl-d14	118		120		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG524363-2 WG524363-3								
Acenaphthene	79		84		37-111	6		40
2-Chloronaphthalene	76		78		40-140	3		40
Fluoranthene	101		105		40-140	4		40
Hexachlorobutadiene	65		68		40-140	5		40
Naphthalene	66		71		40-140	7		40
Benzo(a)anthracene	99		103		40-140	4		40
Benzo(a)pyrene	94		100		40-140	6		40
Benzo(b)fluoranthene	92		100		40-140	8		40
Benzo(k)fluoranthene	80		86		40-140	7		40
Chrysene	84		90		40-140	7		40
Acenaphthylene	83		84		40-140	1		40
Anthracene	90		98		40-140	9		40
Benzo(ghi)perylene	92		99		40-140	7		40
Fluorene	82		82		40-140	0		40
Phenanthrene	94		97		40-140	3		40
Dibenzo(a,h)anthracene	95		101		40-140	6		40
Indeno(1,2,3-cd)Pyrene	92		98		40-140	6		40
Pyrene	100		106		26-127	6		40
1-Methylnaphthalene	64		68		40-140	6		40
2-Methylnaphthalene	90		93		40-140	3		40
Pentachlorophenol	84		83		9-103	1		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG524363-2 WG524363-3								
Hexachlorobenzene	96		106		40-140	10		40
Hexachloroethane	59		63		40-140	7		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	46		50		21-120
Phenol-d6	39		40		10-120
Nitrobenzene-d5	68		67		23-120
2-Fluorobiphenyl	77		80		15-120
2,4,6-Tribromophenol	108		107		10-120
4-Terphenyl-d14	100		111		41-149

PCBS

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

SAMPLE RESULTS

Lab ID:	L1204697-01	Date Collected:	03/20/12 10:20
Client ID:	2CC-4	Date Received:	03/20/12
Sample Location:	Not Specified	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 608
Analytical Method:	5,608	Extraction Date:	03/24/12 09:12
Analytical Date:	03/26/12 12:46	Cleanup Method1:	EPA 3665A
Analyst:	SS	Cleanup Date1:	03/25/12
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	03/25/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	83		30-150
Decachlorobiphenyl	48		30-150

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,608
Analytical Date: 03/26/12 10:13
Analyst: SS

Extraction Method: EPA 608
Extraction Date: 03/24/12 09:12
Cleanup Method1: EPA 3665A
Cleanup Date1: 03/25/12
Cleanup Method2: EPA 3660B
Cleanup Date2: 03/25/12

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG524961-1					
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	78		30-150
Decachlorobiphenyl	70		30-150

Matrix Spike Analysis
Batch Quality Control

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524961-3 QC Sample: L1204883-02 Client ID: MS Sample												
Aroclor 1016	ND	1.06	0.863	81		-	-		40-140	-		50
Aroclor 1260	ND	1.06	0.887	83		-	-		40-140	-		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	87				30-150
Decachlorobiphenyl	91				30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG524961-2								
Aroclor 1016	61		-		40-140	-		50
Aroclor 1260	54		-		40-140	-		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	65				30-150
Decachlorobiphenyl	67				30-150

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524961-4 QC Sample: L1204875-01 Client ID: DUP Sample						
Aroclor 1016	ND	ND	ug/l	NC		50
Aroclor 1221	ND	ND	ug/l	NC		50
Aroclor 1232	ND	ND	ug/l	NC		50
Aroclor 1242	ND	ND	ug/l	NC		50
Aroclor 1248	ND	ND	ug/l	NC		50
Aroclor 1254	ND	ND	ug/l	NC		50
Aroclor 1260	ND	ND	ug/l	NC		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	42		74		30-150
Decachlorobiphenyl	39		49		30-150

METALS

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

SAMPLE RESULTS

Lab ID: L1204697-01 Date Collected: 03/20/12 10:20

Client ID: 2CC-4 Date Received: 03/20/12

Sample Location: Not Specified Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Antimony, Total	0.0015		mg/l	0.0005	--	1	03/22/12 13:10	03/23/12 17:22	EPA 3005A	1,6020	AK
Arsenic, Total	0.0097		mg/l	0.0005	--	1	03/22/12 13:10	03/23/12 17:22	EPA 3005A	1,6020	AK
Cadmium, Total	ND		mg/l	0.0002	--	1	03/22/12 13:10	03/23/12 17:22	EPA 3005A	1,6020	AK
Chromium, Total	0.0330		mg/l	0.0005	--	1	03/22/12 13:10	03/23/12 17:22	EPA 3005A	1,6020	AK
Copper, Total	0.0159		mg/l	0.0005	--	1	03/22/12 13:10	03/23/12 17:22	EPA 3005A	1,6020	AK
Iron, Total	8.8		mg/l	0.05	--	1	03/22/12 13:10	03/23/12 08:20	EPA 3005A	19,200.7	AI
Lead, Total	0.0113		mg/l	0.0005	--	1	03/22/12 13:10	03/23/12 17:22	EPA 3005A	1,6020	AK
Mercury, Total	ND		mg/l	0.0002	--	1	03/22/12 10:25	03/22/12 14:53	EPA 245.1	3,245.1	KL
Nickel, Total	0.0192		mg/l	0.0005	--	1	03/22/12 13:10	03/23/12 17:22	EPA 3005A	1,6020	AK
Selenium, Total	ND		mg/l	0.001	--	1	03/22/12 13:10	03/23/12 17:22	EPA 3005A	1,6020	AK
Silver, Total	0.0004		mg/l	0.0004	--	1	03/22/12 13:10	03/23/12 17:22	EPA 3005A	1,6020	AK
Zinc, Total	0.0874		mg/l	0.0050	--	1	03/22/12 13:10	03/23/12 17:22	EPA 3005A	1,6020	AK
Dissolved Metals - Westborough Lab											
Antimony, Dissolved	0.0016		mg/l	0.0005	--	1	03/22/12 15:55	03/23/12 17:42	EPA 3005A	1,6020	AK
Arsenic, Dissolved	0.0024	B	mg/l	0.0005	--	1	03/22/12 15:55	03/23/12 17:42	EPA 3005A	1,6020	AK
Cadmium, Dissolved	ND		mg/l	0.0002	--	1	03/22/12 15:55	03/23/12 17:42	EPA 3005A	1,6020	AK
Chromium, Dissolved	0.0026		mg/l	0.0005	--	1	03/22/12 15:55	03/23/12 17:42	EPA 3005A	1,6020	AK
Copper, Dissolved	ND		mg/l	0.0005	--	1	03/22/12 15:55	03/23/12 17:42	EPA 3005A	1,6020	AK
Iron, Dissolved	7.8		mg/l	0.05	--	1	03/22/12 15:55	03/26/12 08:30	EPA 3005A	19,200.7	AI
Lead, Dissolved	ND		mg/l	0.0005	--	1	03/22/12 15:55	03/23/12 17:42	EPA 3005A	1,6020	AK
Mercury, Dissolved	ND		mg/l	0.0002	--	1	03/22/12 10:25	03/22/12 15:14	EPA 245.1	3,245.1	KL
Nickel, Dissolved	0.0018		mg/l	0.0005	--	1	03/22/12 15:55	03/23/12 17:42	EPA 3005A	1,6020	AK
Selenium, Dissolved	ND		mg/l	0.001	--	1	03/22/12 15:55	03/23/12 17:42	EPA 3005A	1,6020	AK
Silver, Dissolved	ND		mg/l	0.0004	--	1	03/22/12 15:55	03/23/12 17:42	EPA 3005A	1,6020	AK
Zinc, Dissolved	0.0104		mg/l	0.0050	--	1	03/22/12 15:55	03/23/12 17:42	EPA 3005A	1,6020	AK

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG524334-1										
Mercury, Dissolved	ND		mg/l	0.0002	--	1	03/22/12 10:25	03/22/12 15:10	3,245.1	KL

Prep Information

Digestion Method: EPA 245.1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG524337-1										
Mercury, Total	ND		mg/l	0.0002	--	1	03/22/12 10:25	03/22/12 14:36	3,245.1	KL

Prep Information

Digestion Method: EPA 245.1

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG524515-1										
Antimony, Total	ND		mg/l	0.0005	--	1	03/22/12 13:10	03/23/12 17:06	1,6020	AK
Arsenic, Total	ND		mg/l	0.0005	--	1	03/22/12 13:10	03/23/12 17:06	1,6020	AK
Cadmium, Total	ND		mg/l	0.0002	--	1	03/22/12 13:10	03/23/12 17:06	1,6020	AK
Chromium, Total	ND		mg/l	0.0005	--	1	03/22/12 13:10	03/23/12 17:06	1,6020	AK
Copper, Total	ND		mg/l	0.0005	--	1	03/22/12 13:10	03/23/12 17:06	1,6020	AK
Lead, Total	ND		mg/l	0.0005	--	1	03/22/12 13:10	03/23/12 17:06	1,6020	AK
Nickel, Total	ND		mg/l	0.0005	--	1	03/22/12 13:10	03/23/12 17:06	1,6020	AK
Selenium, Total	ND		mg/l	0.001	--	1	03/22/12 13:10	03/23/12 17:06	1,6020	AK
Silver, Total	ND		mg/l	0.0004	--	1	03/22/12 13:10	03/23/12 17:06	1,6020	AK
Zinc, Total	ND		mg/l	0.0050	--	1	03/22/12 13:10	03/23/12 17:06	1,6020	AK

Prep Information

Digestion Method: EPA 3005A

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG524535-1										
Iron, Total	ND		mg/l	0.05	--	1	03/22/12 13:10	03/23/12 07:33	19,200.7	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG524544-1										
Antimony, Dissolved	ND		mg/l	0.0005	--	1	03/22/12 15:55	03/23/12 17:53	1,6020	AK
Arsenic, Dissolved	0.0008	B	mg/l	0.0005	--	1	03/22/12 15:55	03/23/12 17:53	1,6020	AK
Cadmium, Dissolved	ND		mg/l	0.0002	--	1	03/22/12 15:55	03/23/12 17:53	1,6020	AK
Chromium, Dissolved	ND		mg/l	0.0005	--	1	03/22/12 15:55	03/23/12 17:53	1,6020	AK
Copper, Dissolved	ND		mg/l	0.0005	--	1	03/22/12 15:55	03/23/12 17:53	1,6020	AK
Lead, Dissolved	ND		mg/l	0.0005	--	1	03/22/12 15:55	03/23/12 17:53	1,6020	AK
Nickel, Dissolved	ND		mg/l	0.0005	--	1	03/22/12 15:55	03/23/12 17:53	1,6020	AK
Selenium, Dissolved	ND		mg/l	0.001	--	1	03/22/12 15:55	03/23/12 17:53	1,6020	AK
Silver, Dissolved	ND		mg/l	0.0004	--	1	03/22/12 15:55	03/23/12 17:53	1,6020	AK
Zinc, Dissolved	ND		mg/l	0.0050	--	1	03/22/12 15:55	03/23/12 17:53	1,6020	AK

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG524545-1										
Iron, Dissolved	0.06		mg/l	0.05	--	1	03/22/12 15:55	03/26/12 08:24	19,200.7	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG524334-2								
Mercury, Dissolved	107		-		85-115	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG524337-2								
Mercury, Total	106		-		85-115	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG524515-2								
Antimony, Total	96		-		80-120	-		
Arsenic, Total	103		-		80-120	-		
Cadmium, Total	108		-		80-120	-		
Chromium, Total	98		-		80-120	-		
Copper, Total	100		-		80-120	-		
Lead, Total	100		-		80-120	-		
Nickel, Total	100		-		80-120	-		
Selenium, Total	110		-		80-120	-		
Silver, Total	96		-		80-120	-		
Zinc, Total	104		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG524535-2								
Iron, Total	100		-		85-115	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG524544-2					
Antimony, Dissolved	95	-	80-120	-	
Arsenic, Dissolved	97	-	80-120	-	
Cadmium, Dissolved	107	-	80-120	-	
Chromium, Dissolved	96	-	80-120	-	
Copper, Dissolved	96	-	80-120	-	
Lead, Dissolved	98	-	80-120	-	
Nickel, Dissolved	95	-	80-120	-	
Selenium, Dissolved	107	-	80-120	-	
Silver, Dissolved	93	-	80-120	-	
Zinc, Dissolved	104	-	80-120	-	
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG524545-2					
Iron, Dissolved	97	-	85-115	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524334-4 QC Sample: L1204697-01 Client ID: 2CC-4												
Mercury, Dissolved	ND	0.001	0.001	101		-	-		70-130	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524337-4 QC Sample: L1204618-02 Client ID: MS Sample												
Mercury, Total	0.0002	0.001	0.0010	75		-	-		70-130	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524515-4 QC Sample: L1204625-01 Client ID: MS Sample												
Antimony, Total	0.0007	0.5	0.4961	99		-	-		80-120	-		20
Arsenic, Total	0.0013	0.12	0.1293	107		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.0581	114		-	-		80-120	-		20
Chromium, Total	ND	0.2	0.2040	102		-	-		80-120	-		20
Copper, Total	ND	0.25	0.2627	105		-	-		80-120	-		20
Lead, Total	ND	0.51	0.5397	106		-	-		80-120	-		20
Nickel, Total	ND	0.5	0.5216	104		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.135	112		-	-		80-120	-		20
Silver, Total	ND	0.05	0.0505	101		-	-		80-120	-		20
Zinc, Total	0.0107	0.5	0.5638	111		-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524535-4 QC Sample: L1204618-02 Client ID: MS Sample												
Iron, Total	62	1	60	**0**		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524544-4 QC Sample: L1204697-01 Client ID: 2CC-4										
Antimony, Dissolved	0.0016	0.5	0.5186	103		-	-	80-120	-	20
Arsenic, Dissolved	0.0024B	0.12	0.1265	103		-	-	80-120	-	20
Cadmium, Dissolved	ND	0.051	0.0579	114		-	-	80-120	-	20
Chromium, Dissolved	0.0026	0.2	0.2058	102		-	-	80-120	-	20
Copper, Dissolved	ND	0.25	0.2401	96		-	-	80-120	-	20
Lead, Dissolved	ND	0.51	0.5389	106		-	-	80-120	-	20
Nickel, Dissolved	0.0018	0.5	0.4872	97		-	-	80-120	-	20
Selenium, Dissolved	ND	0.12	0.022	**182**	Q	-	-	80-120	-	20
Silver, Dissolved	ND	0.05	0.0484	97		-	-	80-120	-	20
Zinc, Dissolved	0.0104	0.5	0.5346	105		-	-	80-120	-	20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524545-4 QC Sample: L1204697-01 Client ID: 2CC-4										
Iron, Dissolved	7.8	1	9.1	**130**		-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524334-3 QC Sample: L1204697-01 Client ID: 2CC-4						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524337-3 QC Sample: L1204618-02 Client ID: DUP Sample						
Mercury, Total	0.0002	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524515-3 QC Sample: L1204625-01 Client ID: DUP Sample						
Lead, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524535-3 QC Sample: L1204618-02 Client ID: DUP Sample						
Iron, Total	62	62	mg/l	0		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524544-3 QC Sample: L1204697-01 Client ID: 2CC-4						
Antimony, Dissolved	0.0016	0.0018	mg/l	10		20
Arsenic, Dissolved	0.0024B	0.0038B	mg/l	**47**	Q	20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Chromium, Dissolved	0.0026	0.0026	mg/l	1		20
Copper, Dissolved	ND	0.0005	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Nickel, Dissolved	0.0018	0.0018	mg/l	1		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Selenium, Dissolved	0.000B	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Zinc, Dissolved	0.0104	0.0106	mg/l	2		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524545-3 QC Sample: L1204697-01 Client ID: 2CC-4						
Iron, Dissolved	7.8	7.8	mg/l	0		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

SAMPLE RESULTS

Lab ID: L1204697-01
Client ID: 2CC-4
Sample Location: Not Specified
Matrix: Water

Date Collected: 03/20/12 10:20
Date Received: 03/20/12
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	370		mg/l	50	NA	10	-	03/21/12 07:05	30,2540D	DW
Cyanide, Total	0.007		mg/l	0.005	--	1	03/22/12 18:00	03/23/12 13:43	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	2.0	--	100	-	03/20/12 23:50	30,4500CL-D	DE
TPH	ND		mg/l	4.00	--	1	03/21/12 17:00	03/23/12 14:00	74,1664A	JO
Phenolics, Total	ND		mg/l	0.15	--	5	03/21/12 17:00	03/21/12 22:55	4,420.1	TP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	03/20/12 23:45	03/21/12 00:09	30,3500CR-D	JT
Anions by Ion Chromatography - Westborough Lab										
Chloride	1400		mg/l	25	--	50	-	03/21/12 02:48	44,300.0	AU

Project Name: 1 CHANNEL ST. **Lab Number:** L1204697

Project Number: 26135-800 **Report Date:** 03/26/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG524179-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	03/20/12 23:50	30,4500CL-D	DE
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG524184-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	03/20/12 23:45	03/21/12 00:05	30,3500CR-D	JT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG524217-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/21/12 07:05	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG524376-2										
TPH	ND		mg/l	4.00	--	1	03/21/12 17:00	03/23/12 14:00	74,1664A	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG524405-1										
Phenolics, Total	ND		mg/l	0.03	--	1	03/21/12 17:00	03/21/12 22:52	4,420.1	TP
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG524650-2										
Cyanide, Total	ND		mg/l	0.005	--	1	03/22/12 18:00	03/23/12 13:21	30,4500CN-CE	JO
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG524698-1										
Chloride	ND		mg/l	0.50	--	1	-	03/20/12 19:59	44,300.0	AU

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1 CHANNEL ST.

Project Number: 26135-800

Lab Number: L1204697

Report Date: 03/26/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG524179-2								
Chlorine, Total Residual	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG524184-2								
Chromium, Hexavalent	105		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG524376-1								
TPH	85		-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG524405-2								
Phenolics, Total	96		-		82-111	-		12
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG524650-1								
Cyanide, Total	104		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG524698-2								
Chloride	90		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524184-4 QC Sample: L1204697-01 Client ID: 2CC-4												
Chromium, Hexavalent	ND	0.1	0.092	92		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524376-3 QC Sample: L1204677-01 Client ID: MS Sample												
TPH	ND	20.2	15.7	77		-	-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524405-3 QC Sample: L1204706-02 Client ID: MS Sample												
Phenolics, Total	ND	0.8	0.76	95		-	-		77-124	-		12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524650-3 QC Sample: L1204511-01 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.182	91		-	-		90-110	-		30
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524698-3 WG524698-4 QC Sample: L1204706-01 Client ID: MS Sample												
Chloride	120	100	230	108		220	104		40-151	4		18

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524184-3 QC Sample: L1204697-01 Client ID: 2CC-4						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524217-2 QC Sample: L1204665-02 Client ID: DUP Sample						
Solids, Total Suspended	710	980	mg/l	**32**	Q	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524376-4 QC Sample: L1204618-02 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524405-4 QC Sample: L1204706-02 Client ID: DUP Sample						
Phenolics, Total	ND	0.05	mg/l	NC		12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524650-4 QC Sample: L1204793-02 Client ID: DUP Sample						
Cyanide, Total	ND	ND	mg/l	NC		30
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG524698-5 QC Sample: L1204706-01 Client ID: DUP Sample						
Chloride	120	120	mg/l	0		18

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1204697-01A	Vial HCl preserved	A	N/A	2.0	Y	Absent	8260-SIM(14),8260(14)
L1204697-01B	Vial HCl preserved	A	N/A	2.0	Y	Absent	8260-SIM(14),8260(14)
L1204697-01C	Vial Na2S2O3 preserved	A	N/A	2.0	Y	Absent	504(14)
L1204697-01D	Vial Na2S2O3 preserved	A	N/A	2.0	Y	Absent	504(14)
L1204697-01E	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Absent	CU-6020S(180),FE-RI(180),SE-6020S(180),ZN-6020S(180),CR-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),HG-R(28),SB-6020S(180),CD-6020S(180)
L1204697-01F	Plastic 250ml NaOH preserved	A	>12	2.0	Y	Absent	TCN-4500(14)
L1204697-01G	Amber 1000ml HCl preserved	A	N/A	2.0	Y	Absent	TPH-1664(28)
L1204697-01H	Amber 1000ml HCl preserved	A	N/A	2.0	Y	Absent	TPH-1664(28)
L1204697-01I	Amber 1000ml H2SO4 preserved	A	<2	2.0	Y	Absent	TPHENOL-420(28)
L1204697-01J	Amber 1000ml Na2S2O3	A	7	2.0	Y	Absent	PCB-608(7)
L1204697-01K	Amber 1000ml Na2S2O3	A	7	2.0	Y	Absent	PCB-608(7)
L1204697-01L	Plastic 500ml unpreserved	A	7	2.0	Y	Absent	HEXCR-3500(1)
L1204697-01M	Amber 1000ml unpreserved	A	7	2.0	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1204697-01N	Amber 1000ml unpreserved	A	7	2.0	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1204697-01O	Plastic 500ml unpreserved	A	7	2.0	Y	Absent	CL-300(28),TRC-4500(1)
L1204697-01P	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Absent	SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),FE-UI(180),PB-6020T(180),HG-U(28),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180)
L1204697-01Q	Plastic 1000ml unpreserved	A	7	2.0	Y	Absent	TSS-2540(7)
L1204697-01R	Amber 1000ml unpreserved	A	7	2.0	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1204697-01S	Amber 1000ml unpreserved	A	7	2.0	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1204697-02A	Vial Na2S2O3 preserved	A	N/A	2.0	Y	Absent	504(14)
L1204697-02B	Vial Na2S2O3 preserved	A	N/A	2.0	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name: 1 CHANNEL ST.
Project Number: 26135-800

Lab Number: L1204697
Report Date: 03/26/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1204697-03A	Vial HCl preserved	A	N/A	2.0	Y	Absent	8260-SIM(14),8260(14)
L1204697-03B	Vial HCl preserved	A	N/A	2.0	Y	Absent	-

Container Comments

L1204697-01J

L1204697-01K

L1204697-01S

*Values in parentheses indicate holding time in days

Project Name:	1 CHANNEL ST.	**Lab Number:**	L1204697
Project Number:	26135-800	**Report Date:**	03/26/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	1 CHANNEL ST.	**Lab Number:**	L1204697
Project Number:	26135-800	**Report Date:**	03/26/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	1 CHANNEL ST.	**Lab Number:**	L1204697
Project Number:	26135-800	**Report Date:**	03/26/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

5 Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).

14 Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.

19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

74 Method 1664,Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

ALPHA Job # L1204697

CHAIN OF CUSTODY RECORD

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1400

Phone (617) 886-7400
Fax (617) 886-7600

Page 1 of 1

H&A FILE NO.	26135-800	LABORATORY	Alpha	DELIVERY DATE	3/20/12
PROJECT NAME	1 Channel St.	ADDRESS	Westborough, MA	TURNAROUND TIME	STD 5 Day
H&A CONTACT	S. Potana	CONTACT	Gina H	PROJECT MANAGER	S. Potana

Analysis Requested

Sample No. CS, 3/20/12	Date	Time	Depth	Type	① VOA	② ABNs PAH only	③ MCP Metals	④ Pesticides PCBs	⑤ VPH Full Suite C-ranges only	⑥ EPH Full Suite C-ranges only	⑦ TPH (specify)	⑧ TCLP (specify)	⑨ Reactivity Ignitability Corrosivity				Number of Containers
2CC-4 [illegible]	3/20/12	10:20	—	AQ	X	X	X	X	X	X	X	X	X				19
Tripblank_504	3/20/12	—	—	AQ								X					1
Tripblank_8260	3/20/12	—	—	AQ									X				1

Comments (special instructions, precautions, additional method numbers, etc.)

Laboratory to use applicable DEP CAM methods, unless otherwise directed.
① Dissolved RGP metals (FF)
② Total RGP metals
③ TCN
④ Hex Cr
⑤ Cl, TRC
⑥ PCBs-608
⑦ 8270
⑧ TPH-1664
⑨ Total Phenol
⑩ EDB/504
⑪ 8260

LIQUID

	1	2	3	4	5	6	7	8	9	10	11	12
VOA Vial										X	X	
Amber Glass						X	X	X	X			
Plastic Bottle	X	X	X	X								
Preservative	ADB	AD	AC	A	A	AH	A	AF	AE	AH	A	
Volume mL	250	→	500	500	1000	→	→	→	1000	40	40	

SOLID

VOA Vial	
Amber Glass	
Clear Glass	
Preservative	
Volume	

Sampling Comments

–
NPDES Permit
Note: Samples filled from 10:20 – 13:55

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

Sampled and Relinquished by	Received by
Sign Cody [signature]	Sign Michael A. Augusta [signature]
Print Cody Smith	Print Michael A. Augusta
Firm H+A	Firm H&A
Date 3/20/12 Time	Date 3/20/12 Time 15:20
Relinquished by	**Received by**
Sign [signature]	Sign [signature]
Print Michael A. Augusta	Print Wayne Plumer
Firm H&A	Firm Alpha
Date 3/20/12 Time 15:30	Date 3/20/12 Time 1530
Relinquished by	**Received by**
Sign [signature]	Sign [signature]
Print Wayne Plumer	Print Elizabeth K[illegible]
Firm Alpha	Firm
Date 3/20/12 Time 1735	Date 3/20/12 Time 1735

PRESERVATION KEY

Ⓐ Sample chilled Ⓒ NaOH Ⓔ H_2SO_4 G Methanol
Ⓑ Sample filtered D HNO_3 Ⓕ HCL Ⓗ Water/NaHSO4 (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

✓ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
NA Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
___ This Chain of Custody Record (specify) ________ includes ✓ does not include samples defined as Drinking Water Samples.
NA If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable)________analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory

Form 3003 AUGUST 2008