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

CERTIFIED MAIL RETURN RECEIPT REQUESTED

MAY 13 2015

Tammy Copson
Manager-Development
Skanska USA Commercial Development Inc.
253 Summer Street
Boston, MA 02110

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Building Construction site at 1350 Boylston Street, Boston, MA 02215, Suffolk County; Authorization #MAG910680

Dear Ms. Copson:

Based on the review of a Notice of Intent (NOI) submitted by Tylor S. LaBrecque from Haley & Aldrich., on behalf of SCD 1350 Boylston Street, LLC c/o Skanska USA Commercial Development Inc., for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Owner and 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 your consultant marked "Believed Present". Also, group I polycyclic aromatic hydrocarbons are included due to historic contamination at the site that potentially can hinder the receiving stream if it is discharged without treatment.

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on selected dilution ranges and technology-based ceiling limitations. For each parameter the dilution factor 75 for this site is within a dilution range greater than fifty to one hundred (>50- 100), established in the RGP. (See

the RGP Appendix IV for Massachusetts facilities). Therefore, the limits for antimony of 141 ug/L, arsenic of 500, cadmium of 10 ug/L, copper of 260 ug/L, lead of 66 ug/L, nickel of 1,451ug/L, zinc of 1,480 ug/L and iron of 5,000ug/L, are required to achieve permit compliance at your site.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on June 01, 2017. Please be advised that in order for the site to continue discharging after the expiration date indicated above your consultant must seek a permit reissuance. A reapplication and reissuance notice will be posted on the EPA website after the EPA permit is reissued. Also, you are required to submit a notice of termination (NOT) to the attention of the contact person indicated above within 30 days of project completion.

Finally, please note the checklist of pollutants attached to the authorization is subject to a recertification because the clean-up operations at the site will last longer than six months. A recertification can be submitted to EPA with six (6) to twelve (12) months of operations in accordance with the 2010 RGP regulations

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, Chief
Storm Water and Construction
Permits Section

Enclosure

cc: Robert Kubit, MassDEP
Stephen Shea, Boston WSC
Tylor S. LaBrecque

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Authorization Number:	**MAG910680**
Authorization Issued:	May, 2015
Facility/Site Name:	Building Construction
Facility/Site Address:	1350 Boylston, Street, Boston, MA 02215, Suffolk County
	Email address of owner: tammy.copson@skanska.com
Legal Name of Operator:	Skanska USA Commercial Development Inc.
Operator contact name, title, and Address:	Tammy Copson, Manager-Development, 235 Summer Street, Boston, MA 02210, Suffolk County
	Email: Same as the owner.
Estimated date of the site's Completion:	June 01, 2017
Category and Sub-Category:	Category III- Contaminated Construction Dewatering. Sub-category III General Urban Fill Sites, and Known Contaminated Sites
RGP Termination Date:	September 10, 2015
Receiving Water:	Charles River

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

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
√	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing ** Me#160.2/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/

	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)
		ML 2ug/L
	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 100 ug/L

	Metal parameter	Total Recoverable MA/Metal Limit H [10] = 50 mg/l CaCO3, Units = ug/l [(11/12)] Freshwater Limits		Minimum level=ML	
√	39. Antimony	141		ML	10
√	40. Arsenic **	500		ML	20
√	41. Cadmium **	10		ML	10
	42. Chromium III (trivalent) **	48.8		ML	15
	43. Chromium VI (hexavalent) **	11.4		ML	10
√	44. Copper **	260		ML	15
√	45. Lead **	66		ML	20
	46. Mercury **	0.9		ML	02
√	47. Nickel **	1,451		ML	20
	48. Selenium **	5		ML	20
	49. Silver	1.2		ML	10
√	50. Zinc **	1,480		ML	15
√	51. Iron	5,000		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 "Aroclor 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 220
Boston, MA 02129
617.886.7400

27 April 2015
File No. 39151-025

US Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code OEP06-4
Boston, Massachusetts 02109-3912

Attention: Ms. Shelly Puleo

Subject: Notice of Intent (NOI)
Temporary Construction Dewatering
1350 Boylston Street Development
Boston, Massachusetts

Ladies and Gentlemen:

On behalf of our client, SCD 1350 Boylston Street, LLC c/o Skanska USA Commercial Development Inc., 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. This letter was prepared in accordance with the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) in Massachusetts, MAG910000. Temporary dewatering is planned in support of the construction of the proposed Residences at 1350 Boylston Street 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 is currently occupied by a Burger King Restaurant and drive-through, as well as paved parking. The site is bound to the north by Boylston Street, the west by Kilmarnock Street beyond which lies the Star Market supermarket, the south by McKinley Preparatory High School and Peterborough Street Playground, and to the west by the Fenway Health building at 1340 Boylston Street, as shown on Figure 2, Subsurface Exploration and Discharge Location Plan. The site grades generally range from El. 15 to 16. Elevations in this report are in feet and are referenced to Boston City Base datum (BCB).

SITE HISTORY

Haley & Aldrich reviewed the past and present usage and filling history of the subject site from available historical records including Sanborn Fire Insurance maps dated 1914 to 1995 and documentation in "Gaining Ground: A History of Landmaking in Boston" (Seaholes, 2003).

Prior to the mid-1800s, the area in the vicinity of the subject site was occupied by marshland associated with the Fens Basin, Muddy River, Stony Brook, and various tributaries. The area was filled in the 1890s.

According to Seasholes (2003), Boylston Street was extended from the Fens to Brookline Avenue between 1894 and 1895 and the surrounding area continued to be filled to create additional land.

According to the Sanborn maps, the site was undeveloped through 1937. By 1951 the site was developed with two structures; the specific use of the structures is unknown, although the Sanborn maps identify them as stores. The structures were subsequently demolished and by 1971 the site had been redeveloped with the current commercial building. According to a Response Action Outcome report by FSL Associates (2008), the site building has been occupied by fast food restaurants and parking since its construction through present day.

PROPOSED CONTRUCTION

The proposed residential building at 1350 Boylston Street will consist of a 4-story podium along the eastern side of the site, an 18-story residential tower on the west side of the site, and a two level below-grade parking (105 spaces). Where on-site recharge is not feasible, the project plans to direct the dewatering effluent to the existing storm drain system, which drains to the Charles River. The site work and associated construction dewatering are anticipated to begin in early June 2015 and are estimated to continue intermittently through approximately June 2017.

REGULATORY BACKGROUND

The site is subject to an Activity and Use Limitation (AUL) under the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000 for Release Tracking Number (RTN) 3-27486 that identified residual oil and hazardous material (OHM) constituents present in soil, which is attributable to the presence of urban fill. The AUL was implemented on the entire parcel of land that comprises the disposal site limits for RTN 3-27486.

In 2007, analysis of soil samples indicated that levels of extractable petroleum hydrocarbons (EPH), metals (lead), polycyclic aromatic hydrocarbons (PAHs) compounds in soil and lead in groundwater that exceeded applicable MCP Reportable Concentrations, RCS-1 and RCGW-2, respectively. However, the PAHs were considered to be exempt from reporting due to the presence of coal ash in accordance with 310 CMR 400317(9)). A Release Notification Form (RNF) was submitted to MassDEP in February 2008. A Class B-2 Response Action Outcome (RAO) was submitted to MassDEP in December 2008. Accordingly, no remedial actions were conducted at the site because the AUL has been implemented to maintain a condition of No Significant Risk.

The AUL permits use of the Site for industrial, residential, retail and commercial uses; short term utility construction activities; and construction and excavation activities related to construction up to 130 working days per year; and other activities and uses which in the opinion of a Licensed Site Professional (LSP) present no greater harm to health, safety, public welfare, or the environment. The AUL does not permit agricultural use of the property for consumptive purposes unless the soils to be cultivated are comprised of a minimum of three feet of clean fill.

As part of a precharacterization program conducted at the Site in 2014 by Haley & Aldrich, Reportable Concentrations of OHM were identified, that were previously not detected at the Site and/or detected at higher concentrations than were previously reported under the Class B-2 RAO prepared for RTN 3-27486. Accordingly, SCD 1350 Boylston Street LLC submitted an RNF to MassDEP on 11 August 2014 for levels of arsenic, lead, and phenol identified in soil exceeding applicable RSC-1 Reportable Concentrations. MassDEP subsequently assigned RTN 3-32359 to this release.

In accordance with the MCP 310 CMR 40.1067(4), soil management during construction will be conducted under a Release Abatement Measure (RAM) Plan. The RAM Plan will be filed with MassDEP under RTN 3-32359 prior to construction activities.

GROUNDWATER SAMPLING

In support of the NOI, one unfiltered groundwater sample was obtained from observation well HA-A1 OW on 3 February 2015. The groundwater sample was submitted to Alpha for analysis of volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), PAHs, total metals, EPH, volatile petroleum hydrocarbons (VPH), polychlorinated biphenyls (PCBs), Total Suspended Solids (TSS), chloride, total cyanide, total phenolics, total residual chlorine, total petroleum hydrocarbon (TPH), and pH.

Results of the analysis indicated total arsenic, total cadmium, and total lead concentrations above NPDES RGP effluent limits for Category III sites, but below applicable MCP RCGW-2 Reportable Concentrations. The results of the water quality testing are summarized in Table I. The location of the observation well is shown on Figure 2.

DILUTION FACTOR APPLICATION FOR METALS

A Dilution Factor (DF) was calculated for the detected level of total metals greater than the applicable effluent limits. The DF is applicable to arsenic, cadmium, and lead, 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 150 gallons per minute (GPM) or approximately 0.33 cubic feet per second (cfs), and Q_s is the receiving water flow rate, minimum for 7 consecutive days with recurrence interval of 10 years, calculated to be 24.5 cfs. Using these estimated/calculated values, the DF is equal to 75. Using a DF of 75, according to Appendix IV of the

Remediation General Permit, the ceiling limitation for the calculated dilution factor for arsenic is 500 ug/L, lead is 66 ug/L, and cadmium is 10 ug/l. If testing of the dewatering effluent indicates that the arsenic, lead, or cadmium concentrations are greater than 500, 66, or 10 ug/L, respectively, then pretreatment of the dewatering effluent will include an ion exchange unit or other applicable technology to remove dissolved metals as shown on Figure 3.

DEWATERING SYSTEM AND OFF-SITE DISCHARGE

During construction, it is necessary to perform temporary dewatering to control surface water runoff from precipitation, groundwater seepage, and construction-generated water to create a dry construction environment. Construction and associated dewatering activities are anticipated to begin as early as 1 June 2015. On average, we anticipate effluent discharge rates to be about 50 gallons per minute (gpm) or less, with occasional peak flows of about 150 gpm during significant precipitation events. The temporary dewatering will take place in excavations and conducted with sumps.

Construction dewatering under this RGP NOI will include piping that will ultimately discharge to two storm drains located near the site. The storm drains travel west on Boylston, north on Kilmarnock Street, northeast on Brookline Avenue to Deerfield Street, discharging directly into the Charles River, < 0.5 mi from the site. The proposed discharge route is partially shown on Figure 2.

An effluent treatment system will be designed by the Contractor to meet NPDES RGP discharge criteria. Prior to discharge, collected water will be routed through a sedimentation tank with baffles for oil/water separation and bag filters to remove suspended solids and undissolved chemical constituents.

APPENDICES

The completed “Suggested Notice of Intent” (NOI) form as provided in the RGP is enclosed in Appendix A. The Site is owned by SCD 1350 Boylston Street, LLC. Haley & Aldrich will monitor the dewatering activities on behalf of SCD 1350 Boylston Street, LLC. In accordance with the requirements for this NOI submission, SCD 1350 Boylston Street, LLC as the owner, is listed as the permittee for this NPDES RGP, and therefore has signed the NOI form.

A Best Management Practices Plan (BMPP), which outlines the proposed discharge operations covered under the RGP, is included in Appendix B. No endangered species or historical structures will be adversely impacted by the proposed temporary construction dewatering. Appendices C and D include Endangered Species Act Documentation and National Register of Historic Places, 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 are provided in Appendix F.

CLOSING

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

Sincerely yours,
HALEY & ALDRICH, INC.

Taylor S. LaBrecque
Geologist

Cole E. Worthy, III, LSP of Record
Senior Project Manager | Vice President

References:

Seaholes, N.S. (2003). Gaining Ground: A History of Landmaking in Boston. Cambridge, MA: The MIT Press.

FSL Associates, Inc. "Response Action Outcome Class B-2, 1350 Boylston Street, Boston, Massachusetts DEP RTN 3-27486," dated December 2008.

Attachments:

- Table I – Summary of Groundwater Quality Data
- Figure 1 – Site Locus
- Figure 2 – Subsurface Exploration and Discharge Location Plan
- 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 Report

TABLE I
SUMMARY OF GROUNDWATER QUALITY DATA
1350 BOYLSTON STREET
BOSTON, MASSACHUSETTS
FILE NO. 39151-025

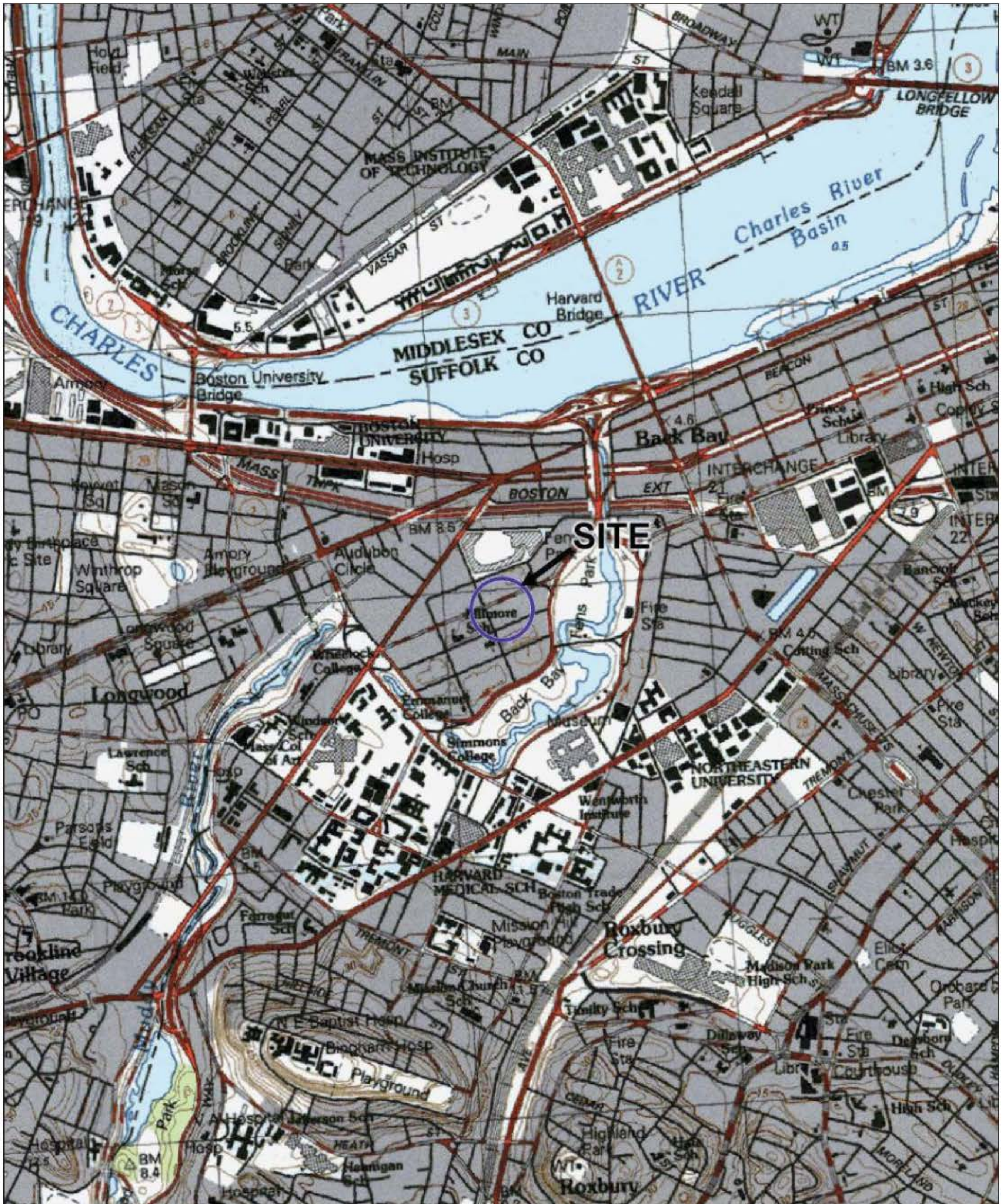
LOCATION SAMPLING DATE LAB SAMPLE ID	NPDES RGP Effluent Limits (mg/l)	MCP RCGW-2 Reportable Criteria (mg/l)	HA-A1 OW 2/3/2015 L1502164-01
VOCs by GC/MS (mg/l)			
Total VOCs by GC/MS	NA	NA	ND
VOCs by GC/MS-SIM (mg/l)			
1,4-Dioxane	Monitor Only	6	ND(0.0015)
SVOCs by GC/MS (mg/l)			
Total SVOCs by GC/MS	NA	NA	ND
SVOCs by GC/MS-SIM (mg/l)			
Benzo(a)anthracene	0.0000038	1	ND(0.0001)
Benzo(a)pyrene	0.0000038	0.5	ND(0.0001)
Benzo(b)fluoranthene	0.0000038	0.4	ND(0.0001)
Benzo(k)fluoranthene	0.0000038	0.1	ND(0.0001)
Chrysene	0.0000038	0.07	ND(0.0001)
Dibenzo(a,h)anthracene	0.0000038	0.04	ND(0.0001)
Indeno(1,2,3-cd)Pyrene	0.0000038	0.1	ND(0.0001)
Total Group I PAHs	0.01	NA	ND
Acenaphthene	NA	10	ND(0.0001)
Acenaphthylene	NA	0.04	ND(0.0001)
Anthracene	NA	0.03	ND(0.0001)
Benzo(ghi)perylene	NA	0.02	ND(0.0001)
Fluoranthene	NA	0.2	ND(0.0001)
Fluorene	NA	0.04	ND(0.0001)
Naphthalene	0.02	0.7	0.00024
Phenanthrene	NA	10	ND(0.0001)
Pyrene	NA	0.02	ND(0.0001)
Total Group II PAHs	0.1	NA	0.00024
1-Methylnaphthalene	NA	NA	ND(0.0001)
2-Chloronaphthalene	NA	100	ND(0.0001)
2-Methylnaphthalene	NA	2	ND(0.0001)
Hexachlorobenzene	NA	0.001	ND(0.0004)
Hexachlorobutadiene	NA	0.05	ND(0.00025)
Hexachloroethane	NA	0.1	ND(0.0004)
Pentachlorophenol	NA	0.2	ND(0.0004)
Other SVOCs by GC/MS-SIM	NA	NA	ND
Total Metals (mg/l)			
Antimony, Total	0.0056	8	0.001
Arsenic, Total	0.001	0.9	**0.0017**
Cadmium, Total	0.0002	0.004	**0.0003**
Chromium, Total	0.0602	0.3	ND(0.0005)
Chromium, Hexavalent	0.0114	0.3	ND(0.005)
Copper, Total	0.0052	100	0.004
Iron, Total	1	NA	0.92
Lead, Total	0.0013	0.01	**0.0017**
Mercury, Total	0.0009	0.02	ND(0.0001)
Nickel, Total	0.029	0.2	0.003
Selenium, Total	0.005	0.1	ND(0.0025)
Silver, Total	0.0012	0.007	ND(0.0002)
Zinc, Total	0.0666	0.9	0.0238
Dissolved Metals (mg/l)			
Antimony, Dissolved	NA	8	ND(0.001)
Arsenic, Dissolved	NA	0.9	0.0017
Cadmium, Dissolved	NA	0.004	0.00026
Chromium, Dissolved	NA	0.3	ND(0.0005)
Copper, Dissolved	NA	100	0.0031
Iron, Dissolved	NA	NA	1
Lead, Dissolved	NA	0.01	0.00147
Mercury, Dissolved	NA	0.02	ND(0.0001)
Nickel, Dissolved	NA	0.2	0.0032
Selenium, Dissolved	NA	0.1	ND(0.0025)
Silver, Dissolved	NA	0.007	ND(0.0002)
Zinc, Dissolved	NA	0.9	0.02343

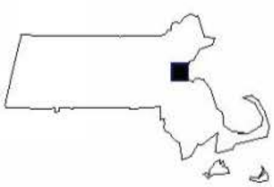
TABLE I
SUMMARY OF GROUNDWATER QUALITY DATA
1350 BOYLSTON STREET
BOSTON, MASSACHUSETTS
FILE NO. 39151-025

LOCATION SAMPLING DATE LAB SAMPLE ID	NPDES RGP Effluent Limits (mg/l)	MCP RCGW-2 Reportable Criteria (mg/l)	HA-A1 OW 2/3/2015 L1502164-01
EPH (mg/l)			
C11-C22 Aromatics, Adjusted	5	5	ND(0.05)
C19-C36 Aliphatics	5	50	ND(0.05)
C9-C18 Aliphatics	5	5	ND(0.05)
VPH (mg/l)			
C5-C8 Aliphatics, Adjusted	5	3	ND(0.025)
C9-C10 Aromatics	5	4	ND(0.025)
C9-C12 Aliphatics, Adjusted	5	5	ND(0.025)
Microextractables by GC (mg/l)			
1,2-Dibromoethane	50	0.002	ND(0.000005)
PCBs by GC (mg/l)			
Total PCBs	0.064	NA	ND
General Chemistry (mg/l)			
Chlorine, Total Residual	0.011	NA	ND(0.01)
Cyanide, Total	0.0052	0.03	ND(0.0025)
Phenolics, Total	NA	NA	ND(0.015)
Chloride	Monitor Only	NA	815
pH (SU)	6.5 to 8.3	NA	6.71
Solids, Total Suspended	30	NA	ND(2.5)
TPH	5	5	ND(2)

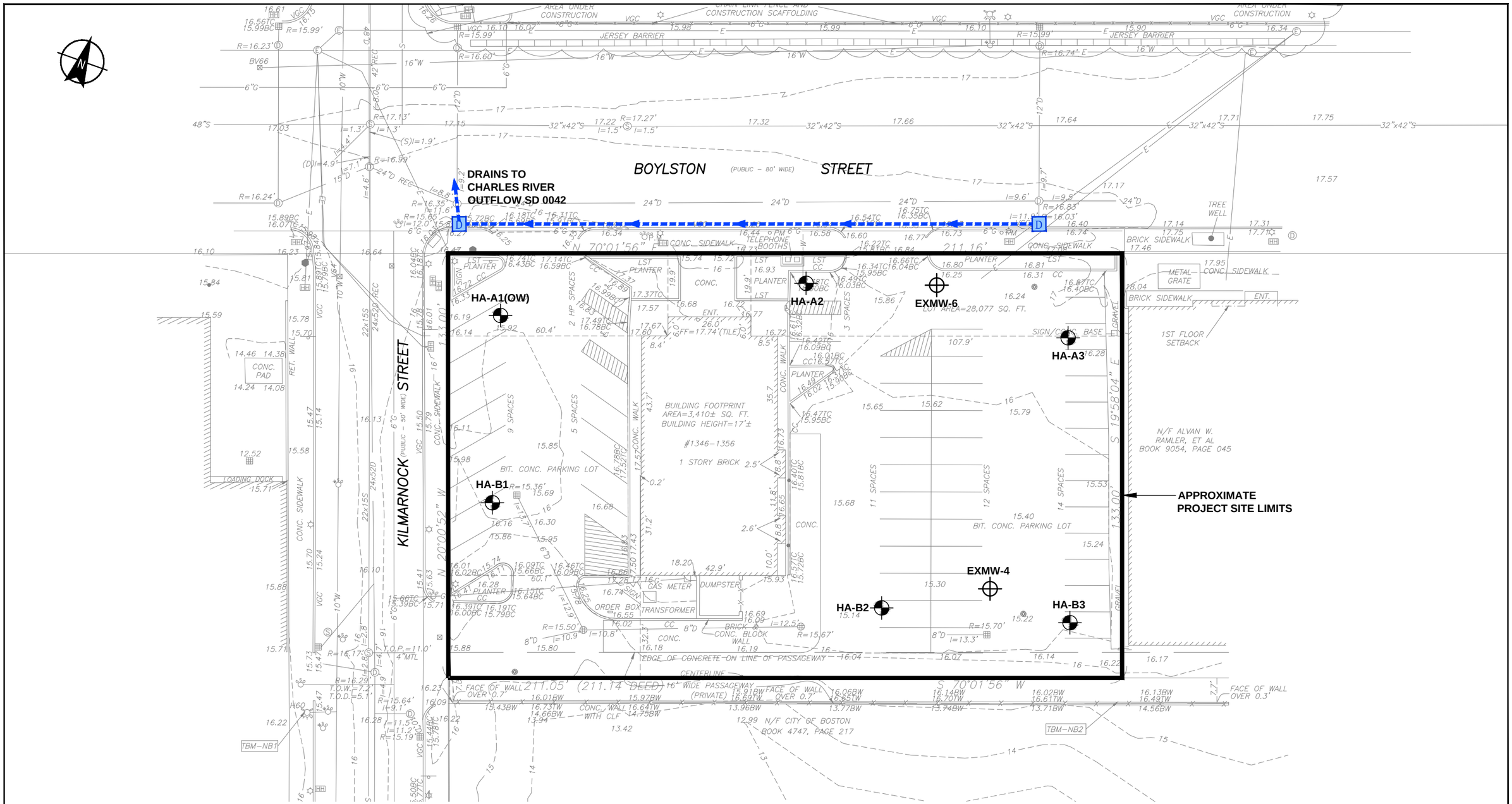
ABBREVIATIONS:
-: Not Analyzed
NA: Not applicable.
ND(2.5): Not detected; number in parenthesis is one-half the laboratory detection limit.
VOCs: Volatile Organic Compounds
SVOCs:Semivolatile Organic Compounds
EPH: Extractable Petroleum Hydrocarbons
VPH: Volatile Petroleum Hydrocarbons
PCBs: Polychlorinated Biphenyls
TPH: Total Petroleum Hydrocarbons

NOTES:
1. This table includes only those compounds detected on the dates indicated.
2. **BOLD** values indicate an exceedance of MCP RCGW-2 criteria.
3. **RED** values indicate an exceedance of NPDES RGP Effluent Limits.
4. NPDES Effluent Limits taken from Appendix III of the EPA Remediation & Miscellaneous Contaminated Sites General Permit.
5. NPDES RGP effluent limits provided for freshwater receiving waters.



SITE COORDINATES:42°20'40"N 71°5'49"W	HALEY ALDRICH 1282 BOYLSTON STREET BOSTON, MASSACHUSETTS
N W E S 	PROJECT LOCUS
U.S.G.S. QUADRANGLE: BOSTON SOUTH, MA	SCALE: 1:24,000 APRIL 2015 FIGURE 1

37820-040 1.PDF



LEGEND:

HA-A1 — DESIGNATION AND APPROXIMATE LOCATION OF TEST BORING DRILLED BY NORTHERN DRILL SERVICE, INC. AND MONITORED BY HALEY & ALDRICH, INC. BETWEEN 18 AND 27 FEBRUARY 2014

EXMW-6 — DESIGNATION AND APPROXIMATE LOCATION OF EXISTING OBSERVATION WELL INSTALLED BY OTHERS

(OW) — INDICATES OBSERVATION WELL INSTALLED IN COMPLETED BOREHOLE

D — PROPOSED CATCH BASIN DISCHARGE LOCATION

APPROXIMATE ROUTE OF DISCHARGE OUTFALL

NOTE:

1. BASE PLAN FROM ELECTRONIC DRAWING TITLED "13846-EX SUBMITTED.DWG", PREPARED BY FELDMAN LAND SURVEYORS AND PROVIDED BY EMAIL ON 10 MARCH 2014.

0 30 60
SCALE IN FEET

HALEY ALDRICH

1350 BOYLSTON STREET
BOSTON, MASSACHUSETTS

SUBSURFACE EXPLORATION AND DISCHARGE LOCATION PLAN

SCALE: AS SHOWN
APRIL 2015

FIGURE 2

ERVIN, DAYNA Printed: 3/19/2015 11:31 AM Layout: B009
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ERVIN, DAYNA Printed: 3/5/2015 2:06 PM Layout: A008
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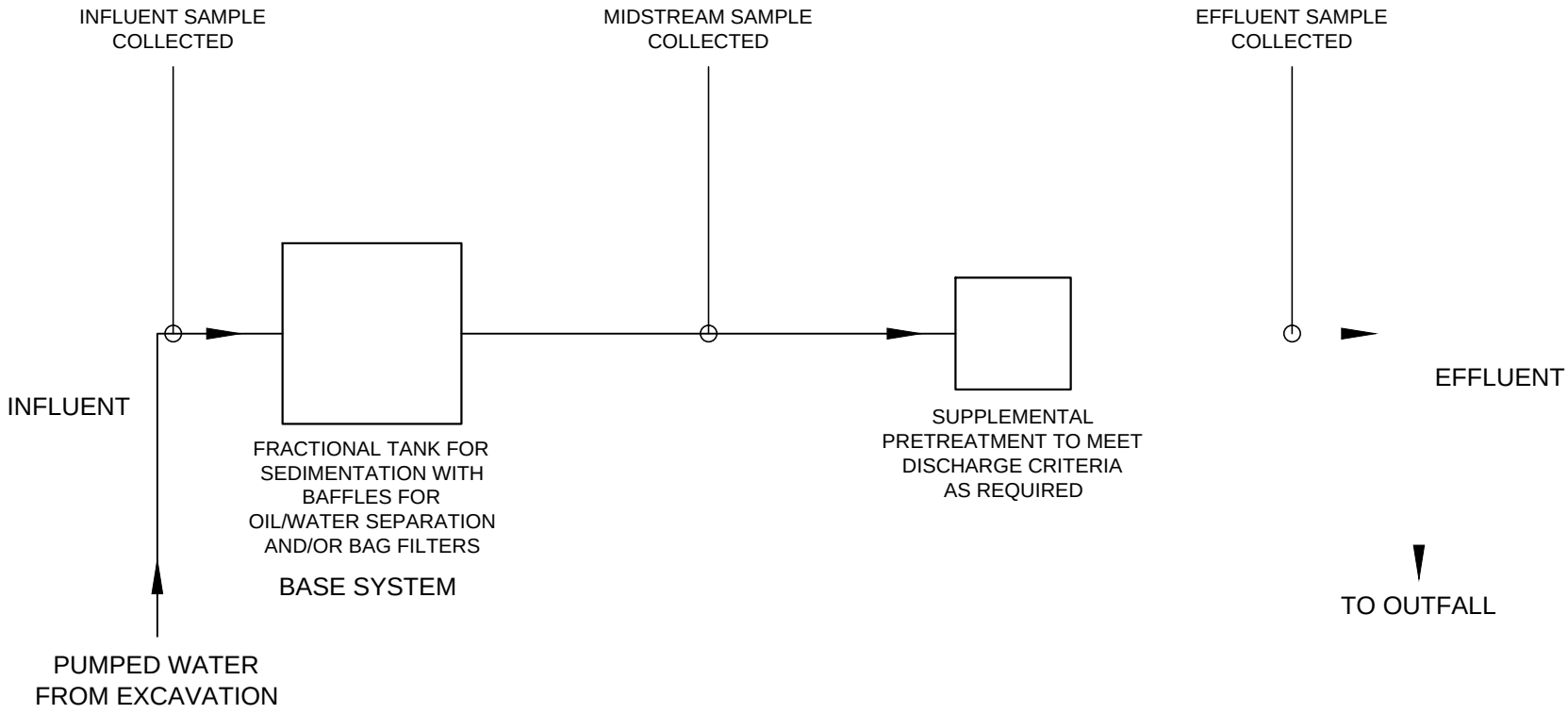

LEGEND:

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

1350 BOYLSTON STREET
BOSTON, MASSACHUSETTS

PROPOSED TREATMENT SYSTEM SCHEMATIC

SCALE: AS SHOWN
APRIL 2015

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**: 1350 Boylston		**Facility/site** mailing address:		
Location of **facility/site**: longitude: 42°20'37.7" latitude: 71°05'58.19"	Facility SIC code(s):	Street: 1350 Boylston		
b) Name of **facility/site owner:** SCD 1350 Boylston Street, LLC		Town: Boston		
Email address of facility/site owner: tammy.copson@skanska.com		State: MA	Zip: 02215	County: Suffolk
Telephone no. of facility/site **owner**: (617) 574-1355				
Fax no. of facility/site **owner**:		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ○ 3. Private ◉ 4. Other ○ if so, describe:		
Address of **owner** (if different from site):				
Street: 253 Summer Street				
Town: Boston	State: MA	Zip: 02210	County: USA	
c) Legal name of **operator**: Skanska USA Commercial Development Inc.	**Operator** telephone no: (617) 574-1355			
	Operator fax no.:	**Operator** email: tammy.copson@skanska.com		
Operator contact name and title: Tammy Copson, Manager-Development				
Address of **operator** (if different from owner):	Street:			
Town:	State:	Zip:	County:	

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

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

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

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

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

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: 2

2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)?
Max. flow: 0.33 Is maximum flow a **design value**? Y ○ N ◉
Average flow (include units) 0.11 cfs Is average flow a design value or estimate? Estimate

3) Latitude and longitude of each discharge within 100 feet:
pt.1: lat. 42°20'38.21" long. 71°05'59.6" pt.2: lat. 42°20'38.81" long. 71°05'57.33";
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): N/A

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

c) Expected dates of discharge (mm/dd/yy): start 06/01/2015 end 06/01/2017

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 attached 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	30,2540D	5000	ND		ND	
2. Total Residual Chlorine (TRC)		☒	☐	1	grab	30,4500CL-D	20	ND		ND	
3. Total Petroleum Hydrocarbons (TPH)		☒	☐	1	grab	74,1664A	4000	ND		ND	
4. Cyanide (CN)	57125	☒	☐	1	grab	30,4500CN-CE	5	ND		ND	
5. Benzene (B)	71432	☒	☐	1	grab	1,8260C	0.5	ND		ND	
6. Toluene (T)	108883	☒	☐	1	grab	1,8260C	0.75	ND		ND	
7. Ethylbenzene (E)	100414	☒	☐	1	grab	1,8260C	0.5	ND		ND	
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☒	☐	1	grab	1,8260C	1	ND		ND	
9. Total BTEX [2]	n/a	☒	☐	1	grab	1,8260C	NA	ND		ND	
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	1	grab	1,8260C	2	ND		ND	
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	1	grab	1,8260C	1	ND		ND	
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	1	grab	1,8260C	10	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	1,8260C	2	ND		ND	
14. Naphthalene	91203	☒	☐	1	grab	1,8260C	2.5	ND		ND	
15. Carbon Tetrachloride	56235	☒	☐	1	grab	1,8260C	0.5	ND		ND	
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	1	grab	1,8260C	2.5	ND		ND	
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	1	grab	1,8260C	2.5	ND		ND	
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	1	grab	1,8260C	2.5	ND		ND	
18a. Total dichlorobenzene		☒	☐	1	grab	1,8260C	NA	ND		ND	
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	1	grab	1,8260C	0.75	ND		ND	
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	1	grab	1,8260C	0.5	ND		ND	
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	1	grab	1,8260C	0.5	ND		ND	
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	1	grab	1,8260C	0.5	ND		ND	
23. Methylene Chloride	75092	☒	☐	1	grab	1,8260C	3	ND		ND	
24. Tetrachloroethene (PCE)	127184	☒	☐	1	grab	1,8260C	0.5	ND		ND	
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	1	grab	1,8260C	0.5	ND		ND	
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	1	grab	1,8260C	0.75	ND		ND	
27. Trichloroethene (TCE)	79016	☒	☐	1	grab	1,8260C	0.5	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	1,8260C	1	ND		ND	
29. Acetone	67641	☒	☐	1	grab	1,8260C	5	ND		ND	
30. 1,4 Dioxane	123911	☒	☐	1	grab	1,8260C-SIM(M)	3	ND		ND	
31. Total Phenols	108952	☒	☐	1	grab	1,8270D	5	ND		ND	
32. Pentachlorophenol (PCP)	87865	☒	☐	1	grab	1,8270D-SIM	0.8	ND		ND	
33. Total Phthalates (Phthalate esters) [4]		☒	☐	1	grab	1,8270D	NA	ND		ND	
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	1	grab	1,8270D	3	ND		ND	
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☐	☐	1	grab	NA	NA	ND		ND	
a. Benzo(a) Anthracene	56553	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
b. Benzo(a) Pyrene	50328	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
c. Benzo(b)Fluoranthene	205992	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
d. Benzo(k)Fluoranthene	207089	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
e. Chrysene	21801	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
f. Dibenzo(a,h)anthracene	53703	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☐	☒ 8	1	grab	NA	NA	0.24		0.24	

[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	1,8270D-SIM	0.2	ND		ND	
i. Acenaphthylene	208968	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
j. Anthracene	120127	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
k. Benzo(ghi) Perylene	191242	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
l. Fluoranthene	206440	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
m. Fluorene	86737	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
n. Naphthalene	91203	☐	☒	1	grab	1,8270D-SIM	0.2	0.24		0.24	
o. Phenanthrene	85018	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
p. Pyrene	129000	☒	☐	1	grab	1,8270D-SIM	0.2	ND		ND	
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	1	grab	5,608	0.250	ND		ND	
38. Chloride	16887006	☐	☒	1	grab	44,300.0	25000	8150		8150	
39. Antimony	7440360	☐	☒	1	grab	1,6020A	.5	1.0		1.0	
40. Arsenic	7440382	☐	☒	1	grab	1,6020A	.5	1.7		1.7	
41. Cadmium	7440439	☐	☒	1	grab	1,6020A	.2	0.3		0.3	
42. Chromium III (trivalent)	16065831	☒	☐	1	grab	1,6020A	1	ND		ND	
43. Chromium VI (hexavalent)	18540299	☒	☐	1	grab	30,3500CR-D	10	ND		ND	
44. Copper	7440508	☐	☒	1	grab	1,6020A	1	4		4	
45. Lead	7439921	☐	☒	1	grab	1,6020A	.5	1.7		1.7	
46. Mercury	7439976	☒	☐	1	grab	3,245.1	0.2	ND		ND	
47. Nickel	7440020	☐	☒	1	grab	1,6020A	0.5	3		3	
48. Selenium	7782492	☒	☐	1	grab	1,6020A	5	ND		ND	
49. Silver	7440224	☒	☐	1	grab	1,6020A	0.4	ND		ND	
50. Zinc	7440666	☐	☒	1	grab	1,6020A	10	23.8		23.8	
51. Iron	7439896	☐	☒	1	grab	19,200.7	50	920		920	
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)
Chloroform	67-66-3	☒	☐	1	grab	1,8260C	0.75	ND		ND	
Dichlorodifluoromethane	75-71-8	☒	☐	1	grab	1,8260C	5	ND		ND	

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? Arsenic, Cadmium, Lead
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: Arsenic DF: 75 Metal: Cadmium DF: 75 Metal: Lead DF: 75 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 150 gpm
Design flow rate of treatment system 150 gpm

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

N/A

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

a) Identify the discharge pathway:	Direct to receiving water_☐__	Within facility (sewer) _☐__	Storm drain_8__	Wetlands _☐__	Other (describe):

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

2 CBs on Boylston, Discharge flows W on Boylston, N on Kilmarnock, NE on Brookline Ave, NW on Deerfield, discharge to OF 042, Charles River.

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

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

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 24.5 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

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

Is there a final TMDL? Y_◉__ N_○__ If yes, for which pollutant(s)? Pathogens

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.

Laboratory Data is provided in Appendix E.

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:	1350 Boylston Street
Operator signature:	
Printed Name &Title:	Tammy Copson
Date:	4/21/2015

APPENDIX B

Best Management Practices Plan (BMPP)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
REMEDIATION GENERAL PERMIT
TEMPORARY CONSTRUCTION DEWATERING
1350 BOYLSTON STREET
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 construction of the proposed Residential Building located at 1350 Boylston Street in 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 a sedimentation tank with baffles for oil/water separation and bag filters, as required, to remove suspended solids and undissolved chemical constituents. Supplemental pretreatment may be required to meet discharge criteria as shown on the Proposed Treatment System Schematic included in Figure 3. Construction dewatering under this RGP NOI will include piping and discharging to storm drains located on Boylston Street adjacent to the site. The storm drains travel west along Boylston Street, north on Kilmarnock Street, northeast on Brookline Avenue, north on Deerfield Street, before discharging via outfall SD0042 to the Charles River.

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.

Miscellaneous Items

It is anticipated that the excavation support system, erosion control measures, and the nature of the site and surrounding infrastructure will minimize potential runoff to or from the site. The project specifications also include requirements for erosion control.

Site security for the treatment system will be covered within the overall site security plan.

No adverse affects of designated water uses of surrounding surface water bodies is anticipated. The Charles River is the nearest surface water body to the site located approximately 0.5 mi from the construction activities on site. Dewatering effluent will be pumped to a sedimentation tank with baffles for oil/water separation and bag filters, as required, prior to discharge to the storm drains.

Management of Treatment System Materials

Groundwater analytical data for the site is below the applicable MCP RCGW-2 criteria but above the NPDES RGP criteria for total arsenic, total lead, and total cadmium. 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. Bag filters will be placed in drums and manifested for off-site disposal.

APPENDIX C

Endangered Species Act Documentation

MASSACHUSETTS AREAS OF CRITICAL ENVIRONMENTAL CONCERN
November 2010

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 — November 2010

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
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

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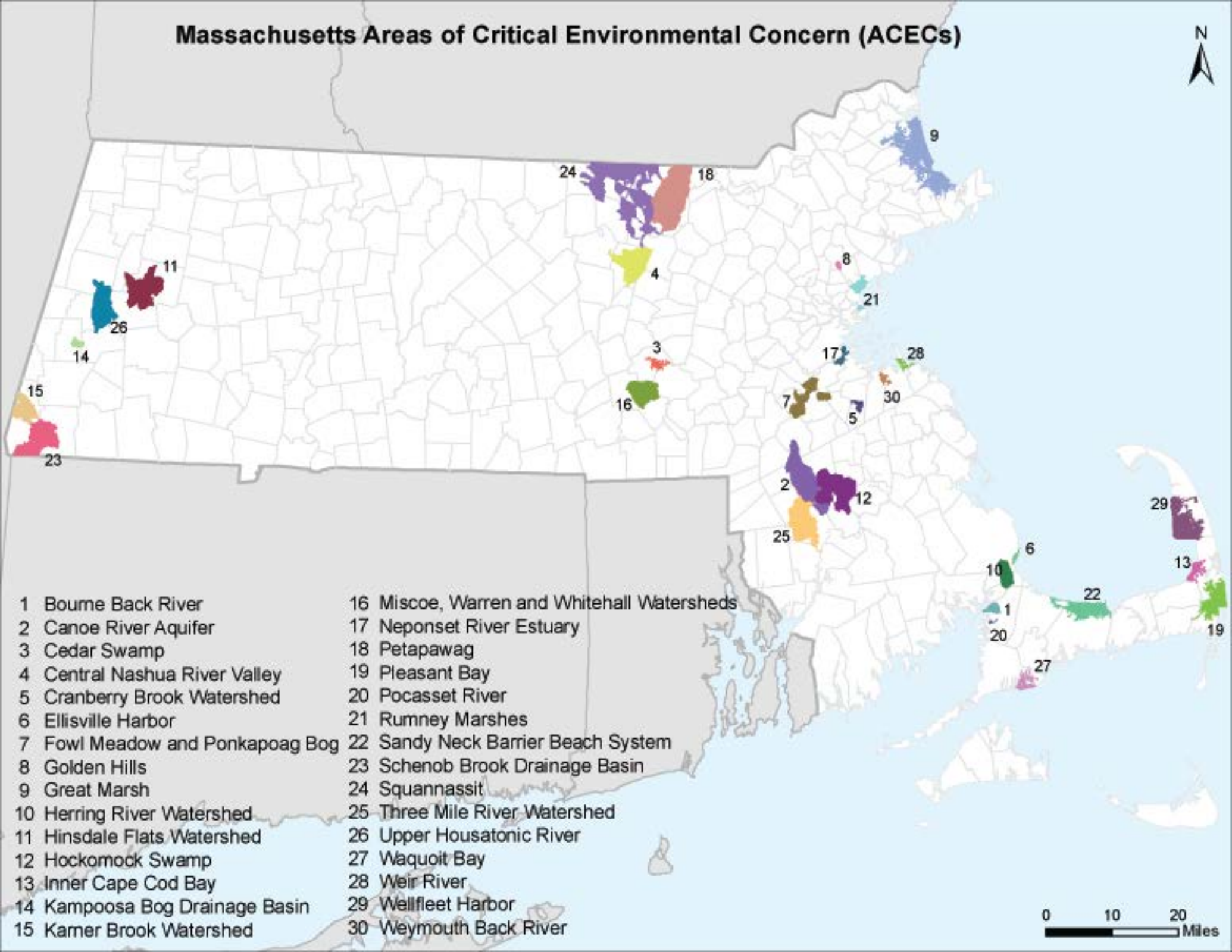
Massachusetts Areas of Critical Environmental Concern (ACECs)



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

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

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

Updated 01/09/2015

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

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

Updated 01/09/2015

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

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

[1]Migratory only, scattered along the coast in small numbers

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

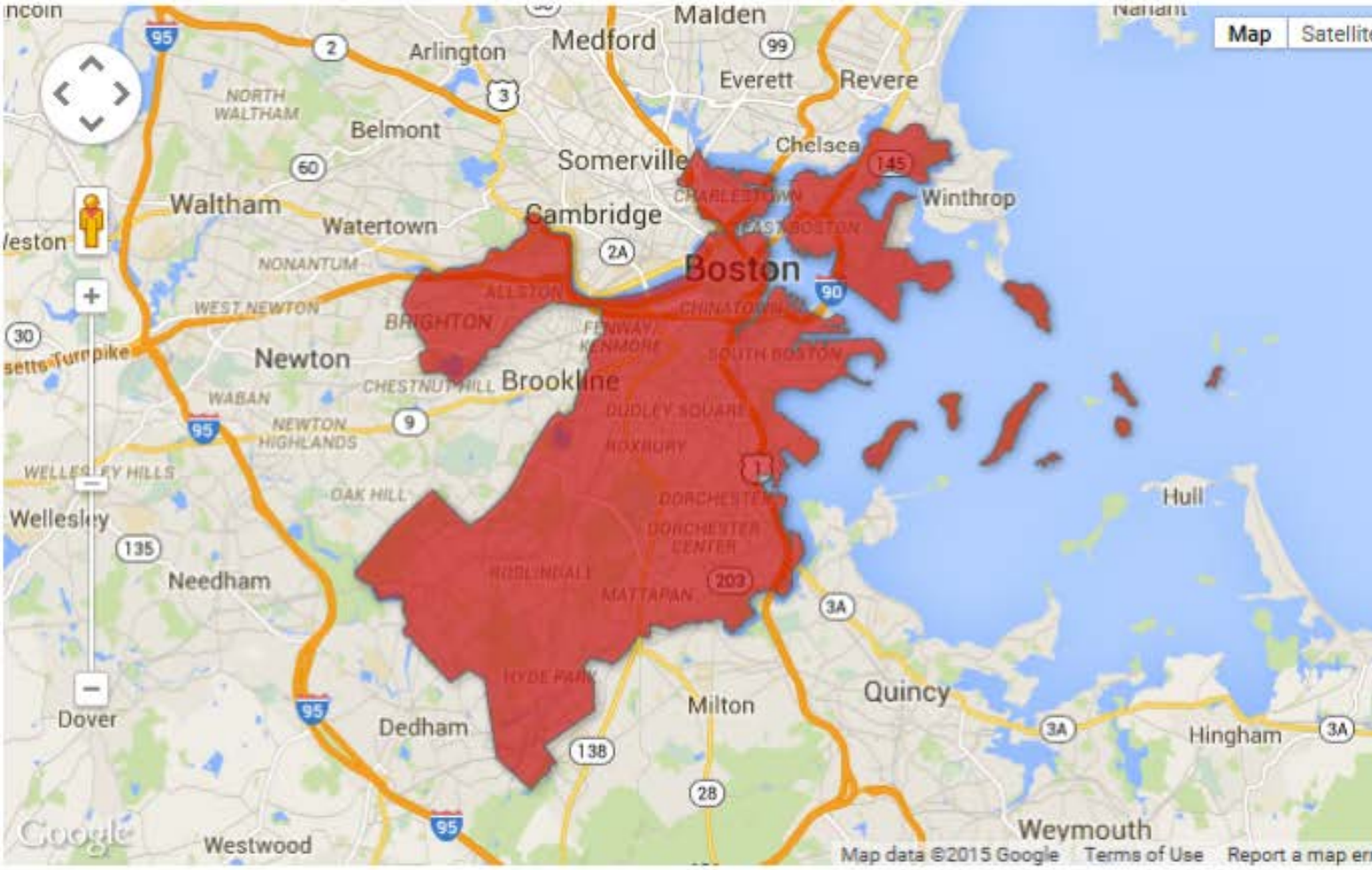
Updated 01/09/2015

Town Species Viewer

The Natural Heritage & Endangered Species Program maintains a list of all documented MESA-listed species observations in the Commonwealth. Please select a town if you would like to see a table showing which listed species have been observed in that town. The selected town will also be highlighted on the map. Alternatively you can specify either the Common Name or Scientific Name of a species to see it's distribution on the map and table showing the towns it has been observed in. Clicking on a column header in the table will sort the column. Clicking again on the same column heading will reverse the sort order.

The Town List and Species Viewer will be updated at regular intervals as new data is accepted and entered into the NHESP database.

Town: BOSTON or Species (Common Name): or Species (Scientific Name):



Showing 1 to 46 of 46 entries

Search:

First Previous 1 Next Last

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Most Recent Obs
BOSTON	Butterfly/Moth	Abagrotis nefascia	Coastal Heathland Cutworm	SC	2001
BOSTON	Bird	Accipiter striatus	Sharp-shinned Hawk	SC	1898
BOSTON	Vascular Plant	Ageratina aromatica	Lesser Snakeroot	E	1896
BOSTON	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC	2013
BOSTON	Bird	Ammodramus savannarum	Grasshopper Sparrow	T	1993
BOSTON	Butterfly/Moth	Apodrepanulatrix liberaria	New Jersey Tea Inchworm	E	Historic
BOSTON	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T	Historic
BOSTON	Vascular Plant	Aristida tuberculosa	Seabeach Needlegrass	T	1877
BOSTON	Vascular Plant	Asclepias verticillata	Linear-leaved Milkweed	T	1878
BOSTON	Bird	Bartramia longicauda	Upland Sandpiper	E	1993
BOSTON	Vascular Plant	Boechera missouriensis	Green Rock-cress	T	1930
BOSTON	Vascular Plant	Carex striata	Walter's Sedge	E	Historic
BOSTON	Bird	Charadrius melodus	Piping Plover	T	2011
BOSTON	Beetle	Cicindela duodecimguttata	Twelve-spotted Tiger Beetle	SC	1910
BOSTON	Beetle	Cicindela purpurea	Cow Path Tiger Beetle	SC	1928
BOSTON	Beetle	Cicindela rufiventris hentzii	Eastern Red-bellied Tiger Beetle	T	1927
BOSTON	Vascular Plant	Desmodium cuspidatum	Large-bracted Tick-trefoil	T	1896
BOSTON	Vascular Plant	Eriophorum gracile	Slender Cottongrass	T	1885
BOSTON	Bird	Falco peregrinus	Peregrine Falcon	E	2013
BOSTON	Fish	Gasterosteus aculeatus	Threespine Stickleback	T	2014
BOSTON	Bird	Gavia immer	Common Loon	SC	1824
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	Mussel	Ligumia nasuta	Eastern Pondmussel	SC	1841
BOSTON	Vascular Plant	Linum medium var. texanum	Rigid Flax	T	1909
BOSTON	Vascular Plant	Lycopus rubellus	Gypsywort	E	1896
BOSTON	Butterfly/Moth	Metarranthis apiciaria	Barrens Metarranthis	E	1934
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	Bird	Pooecetes gramineus	Vesper Sparrow	T	1985
BOSTON	Butterfly/Moth	Pyrrhia aurantiago	Orange Sallow Moth	SC	1988
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	Amphibian	Scaphiopus holbrookii	Eastern Spadefoot	T	1932
BOSTON	Vascular Plant	Scirpus longii	Long's Bulrush	T	1907
BOSTON	Vascular Plant	Setaria parviflora	Bristly Foxtail	SC	2001
BOSTON	Dragonfly/Damselfly	Somatochlora linearis	Mocha Emerald	SC	2009

BOSTON Bird	Sterna hirundo	Common Tern	SC	2012
BOSTON Bird	Sternula antillarum	Least Tern	SC	2012
BOSTON Vascular Plant	Suaeda calceoliformis	American Sea-blite	SC	1909
BOSTON Reptile	Terrapene carolina	Eastern Box Turtle	SC	1939
BOSTON Bird	Tyto alba	Barn Owl	SC	1989
BOSTON Bird	Vermivora chrysoptera	Golden-winged Warbler	E	Historic
BOSTON Vascular Plant	Viola brittoniana	Britton's Violet	T	1909

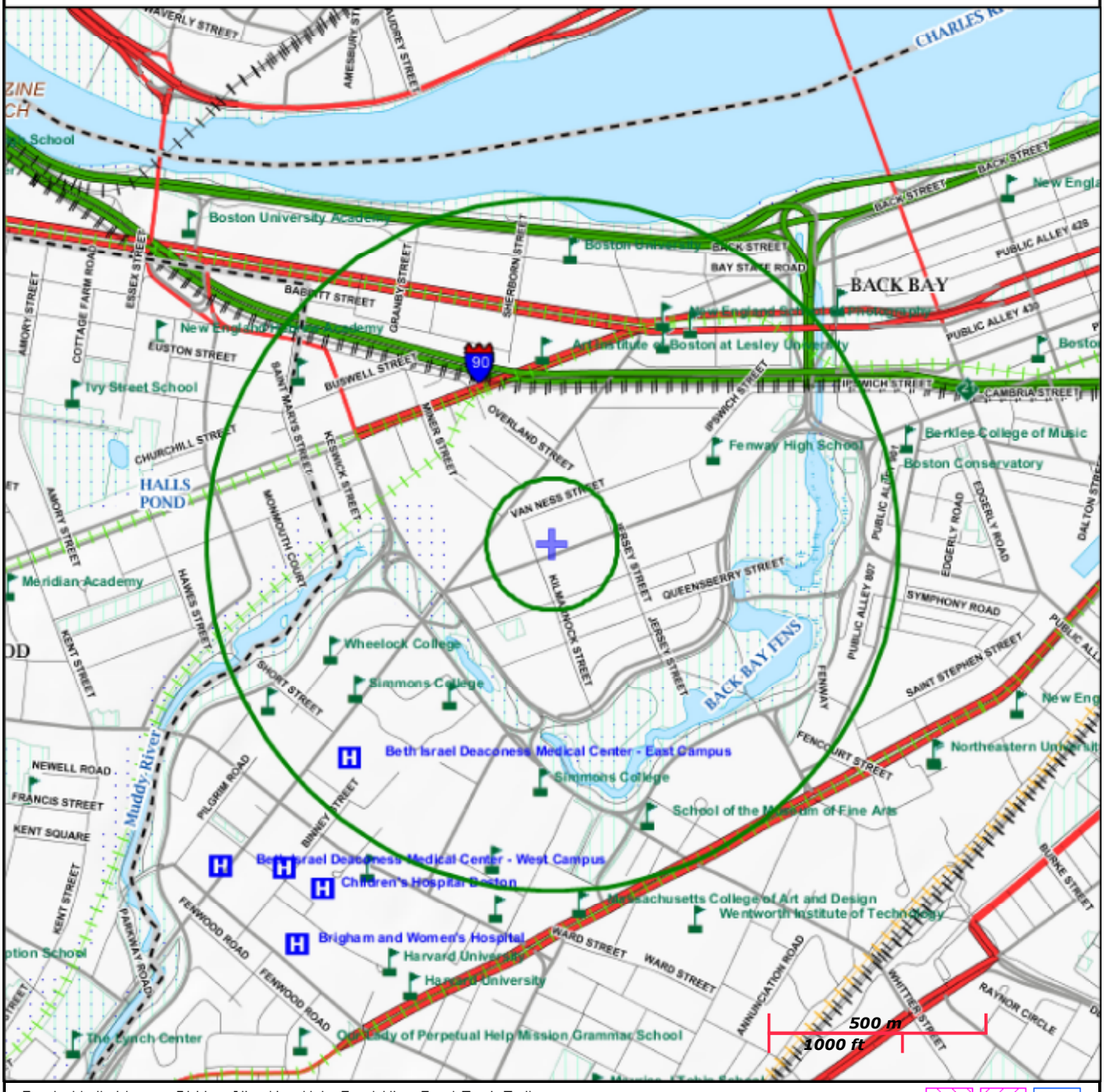
MassDEP - Bureau of Waste Site Cleanup

Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:
1350 BOYLSTON BOSTON, MA
NAD83 UTM Meters:
5212697mN , -7914768mE (Zone: 18)
February 20, 2015

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: http://www.mass.gov/mgis/.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



United States Department of the Interior

FISH AND WILDLIFE SERVICE

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

January 7, 2015

To Whom It May Concern:

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

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

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

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

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office

APPENDIX D

National Register of Historic Places and
Massachusetts Historical Commission Documentation

Massachusetts Historical Commission

William Francis Galvin, Secretary of the Commonwealth

Massachusetts Cultural Resource Information System

MACRIS

Scanned forms and photos now available for selected towns!

The Massachusetts Cultural Resource Information System (MACRIS) allows you to search the Massachusetts Historical Commission database for information on historic properties and areas in the Commonwealth.

Users of the database should keep in mind that it does not include information on all historic properties and areas in Massachusetts, nor does it reflect all the information on file on historic properties and areas at the Massachusetts Historical Commission.

Click here to begin your search of the MACRIS database.




Home | Search | Index | Feedback | Contact

Massachusetts Cultural Resource Information System
MACRIS

Results

Get Results in Report Format
○ PDF ◉ Spreadsheet

Below are the results of your search, using the following search criteria:
Town(s): Boston
Street Name: boylston
Resource Type(s): Area, Building, Object, Structure

For more information about this page and how to use it, click here

Inv. No.	Property Name	Street	Town	Year	SR			
BOS.937	Channing, William Ellery Statue	Arlington St	Boston	1903	SR		INV	
BOS.959	Guild, Curtis Memorial Entrance	Boston Common	Boston	1917	SR			
BOS.979	Railroad Mall	Boston Common	Boston		SR			
BOS.981	Holmes, Oliver Wendell Mall	Boston Common	Boston		SR			
BOS.989	Sumner, Charles Statue	Boston Public Garden	Boston	1877	SR		INV	
BOS.990	Kosciuszko, Tadeusz Andrzej Bonawentura Statue	Boston Public Garden	Boston	1927	SR		INV	
BOS.991	Cass, Thomas Statue	Boston Public Garden	Boston	1899	SR		INV	
BOS.992	Phillips, Wendell Statue	Boston Public Garden	Boston	1914	SR		INV	
BOS.2241	Seville Restaurant	1-2 Boylston Pl	Boston	c 1920	SR		INV	
BOS.2242	Ancient Landmark Building	3 Boylston Pl	Boston	1888	SR		INV	
BOS.2243	Tavern Club	4 Boylston Pl	Boston	c 1820	SR		INV	
BOS.2244	Hilt, Henry - Rayner, Thomas House	5-6 Boylston Pl	Boston	1844	SR		INV	
BOS.2623	Trinity Church	Boylston St	Boston	1875	SR		INV	
BOS.2626	Hotel Lenox	Boylston St	Boston	1901			INV	
BOS.2639	Museum of Natural History	Boylston St	Boston	1863	SR		INV	

Page 1 of 11

Next 15

154 Properties Found

New Search | New Search – Same Town(s) | Previous

Massachusetts Cultural Resource Information System
MACRIS

Results

Get Results in Report Format
(•) PDF ( ) Spreadsheet

Below are the results of your search, using the following search criteria:
Town(s): Boston
Street Name: Peterborough
Resource Type(s): Area, Building, Object, Structure

For more information about this page and how to use it, click here

Inv. No.	Property Name	Street	Town	Year	SR			
BOS.7578	Church of the Disciples	Peterborough St	Boston	1904			INV	
BOS.7570	Birburie, H. C. Town House	22 Peterborough St	Boston	1903			INV	
BOS.7571	Birburie, H. C. Town House	24 Peterborough St	Boston	1903				
BOS.7572	Birburie, H. C. Town House	26 Peterborough St	Boston	1903				
BOS.7338	Birburie, H. C. Town House	28 Peterborough St	Boston	1903				
BOS.7573	Birburie, H. C. Town House	30 Peterborough St	Boston	1903				
BOS.7574	Birburie, H. C. Town House	32 Peterborough St	Boston	1903				
BOS.7575	Sumner Apartment Building	35-45 Peterborough St	Boston	1915			INV	
BOS.7576	Stuart Apartment Building	36-46 Peterborough St	Boston	1915				
BOS.7577	Millmore, Martin Public School	85 Peterborough St	Boston	1929			INV	
BOS.7579	Peterborough Chambers Apartment Building	131 Peterborough St	Boston	1911			INV	

11 Properties Found

New Search | New Search – Same Town(s) | Previous

National Register of Historic Places
National Register Documentation on Listed Properties
Note: Not all National Register properties have been digitized yet

Reference Number	State	County	City	Resource Name	Address	Listed Date
87000885	MASSACHUSETTS	Suffolk	Boston	Abbotsford	300 Walnut Ave.	19870916
82004456	MASSACHUSETTS	Suffolk	Boston	Adams-Nervine Asylum	990-1020 Centre St.	19820601
71000087	MASSACHUSETTS	Suffolk	Boston	African Meetinghouse	8 Smith St.	19711007
80000678	MASSACHUSETTS	Suffolk	Boston	All Saints' Church	211 Ashmont St.	19800616
97001377	MASSACHUSETTS	Suffolk	Boston	Allston Congregational Church	31-41 Quint Ave.	19971107
74000382	MASSACHUSETTS	Suffolk	Boston	Ames Building	1 Court St.	19740426
77001541	MASSACHUSETTS	Suffolk	Boston	Appleton, Nathan, Residence	39-40 Beacon St.	19771222
73000313	MASSACHUSETTS	Suffolk	Boston	Arlington Street Church	Arlington and Boylston Sts.	19730504
73000314	MASSACHUSETTS	Suffolk	Boston	Armory of the First Corps of Cadets	97-105 Arlington St. and 130 Columbus Ave.	19730522
66000127	MASSACHUSETTS	Suffolk	Boston	Arnold Arboretum	22 Divinity Ave.	19661015
87001478	MASSACHUSETTS	Suffolk	Boston	Austin, Francis B., House	58 High St.	19881021
05000459	MASSACHUSETTS	Suffolk	Boston	Ayer, Frederick, Mansion	395 Commonwealth Avenue	20050405
73001948	MASSACHUSETTS	Suffolk	Boston	Back Bay Historic District	Roughly bounded by the Charles River, Arlington, Providence, Boylston and Newbury Sts., and Charlesgate East	19730814
98001381	MASSACHUSETTS	Suffolk	Boston	Baker Congregational Church	760 Saratoga St.	19981119
83004285	MASSACHUSETTS	Suffolk	Boston	Baker, Sarah J., School	33 Perrin St.	19830707
80000462	MASSACHUSETTS	Suffolk	Boston	Beach-Knapp District	Roughly bounded by Harrison Ave., Washington, Kneeland, and Beach Sts.	19801209
66000130	MASSACHUSETTS	Suffolk	Boston	Beacon Hill Historic District	Bounded by Beacon St., the Charles River Embankment, and Pinckney, Revere, and Hancock Sts.	19661015
79000368	MASSACHUSETTS	Suffolk	Boston	Bedford Building	89-103 Bedford St.	19790821
89002251	MASSACHUSETTS	Suffolk	Boston	Bellevue Standpipe	On Bellevue Hill at Washington St. and Roxbury Pkwy.	19900118
85000030	MASSACHUSETTS	Suffolk	Chelsea	Bellingham Square Historic District	Roughly bounded by Broadway, Shawmut, Chestnut, and Shurtleff Sts.	19850103
74000908	MASSACHUSETTS	Suffolk	Chelsea	Bellingham-Cary House	34 Parker St.	19740906
04000023	MASSACHUSETTS	Suffolk	Boston	Benedict Fenwick School	150 Magnolia St.	20040211
02000548	MASSACHUSETTS	Suffolk	Boston	Bennington Street Burying Ground	Bennington St., bet. Swift and harmony Sts.	20020522
80000677	MASSACHUSETTS	Suffolk	Boston	Berger Factory	37 Williams St.	19800409
85000316	MASSACHUSETTS	Suffolk	Boston	Bigelow School	350 W. 4th St.	19850221
73000315	MASSACHUSETTS	Suffolk	Boston	Blackstone Block Historic District	Area bound by Union, Hanover, Blackstone, and North Sts.	19730526
14000272	MASSACHUSETTS	Suffolk	Boston	Blake and Amory Building	59 Temple Pl.	20140602
74002350	MASSACHUSETTS	Suffolk	Boston	Blake, James, House	735 Columbia Rd.	19740501
80004396	MASSACHUSETTS	Suffolk	Boston	Boston African American National Historic Site	Museum of Afro American History, Dudley Station, Box 5	19801010
66000132	MASSACHUSETTS	Suffolk	Boston	Boston Athenaeum	10 1/2 Beacon St.	19661015
87000760	MASSACHUSETTS	Suffolk	Boston	Boston Common	Beacon, Park, Tremont, Boylston, and Charles St.	19870227
72000144	MASSACHUSETTS	Suffolk	Boston	Boston Common and Public Garden	Beacon, Park, Tremont, Boylston, and Arlington Sts.	19720712
01001557	MASSACHUSETTS	Suffolk	Boston	Boston Consumptives Hospital	249 River St.	20020207
80000453	MASSACHUSETTS	Suffolk	Boston	Boston Edison Electric Illuminating Company	25-39 Boylston St.	19801209
85003323	MASSACHUSETTS	Suffolk	Boston	Boston Harbor Islands Archeological District	Address Restricted	19851221
66000133	MASSACHUSETTS	Suffolk	Boston	Boston Light	Little Brewster Island, Boston Harbor	19661015
74002222	MASSACHUSETTS	Suffolk	Boston	Boston National Historical Park	Inner harbor at mouth of Charles River	19741026
66000134	MASSACHUSETTS	Suffolk	Boston	Boston Naval Shipyard	E of Chelsea St., Charlestown	19661115
87000761	MASSACHUSETTS	Suffolk	Boston	Boston Public Garden	Beacon, Charles, Boylston, and Arlington Sts.	19870227
73000317	MASSACHUSETTS	Suffolk	Boston	Boston Public Library	Copley Sq.	19730506
07000861	MASSACHUSETTS	Suffolk	Boston	Boston Transit Commission Building	15 Beacon St.	20070831
98001082	MASSACHUSETTS	Suffolk	Boston	Boston Young Men's Christian Association	312-320 Huntington Ave.	19980820
80000451	MASSACHUSETTS	Suffolk	Boston	Boston Young Men's Christian Union	48 Boylston St.	19801209
90001145	MASSACHUSETTS	Suffolk	Boston	Bowditch School	80--82 Greene St.	19900803
80000450	MASSACHUSETTS	Suffolk	Boston	Boylston Building	2-22 Boylston St.	19801209
01000088	MASSACHUSETTS	Suffolk	Boston	Brighton Center Historic District	Academy Hill R., Chestnut Hill Ave., Dighton, Elko, Henshaw, Leicester, Market, Washington, and Winship Sts.	20010220
97000920	MASSACHUSETTS	Suffolk	Boston	Brighton Evangelical Congregational Church	404-410 Washington St.	19970821
66000141	MASSACHUSETTS	Suffolk	Boston	Brook Farm	670 Baker St.	19661015
85002015	MASSACHUSETTS	Suffolk	Boston	Building at 138--142 Portland Street	138--142 Portland St.	19850905
14000561	MASSACHUSETTS	Suffolk	Boston	Buildings at 825--829 Blue Hill Avenue	825-829 Blue Hill Ave.	20140910
86000274	MASSACHUSETTS	Suffolk	Boston	Bulfinch Triangle Historic District	Roughly bounded by Canal, Market, Merrimac, and Causeway Sts.	19860227
66000138	MASSACHUSETTS	Suffolk	Boston	Bunker Hill Monument	Breed's Hill	19661015

87001771	MASSACHUSETTS	Suffolk	Boston	Bunker Hill School	65 Baldwin St.	19871015
90001095	MASSACHUSETTS	Suffolk	Boston	Calf Pasture Pumping Station Complex	435 Mount Vernon St.	19900802
98001361	MASSACHUSETTS	Suffolk	Boston	Cathedral of St. George Historic District	517-523-525 E. Broadway	19981125
80000676	MASSACHUSETTS	Suffolk	Boston	Charles Playhouse	74-78 Warenton St.	19800616
10000506	MASSACHUSETTS	Suffolk	Boston	Charles River Reservation (Speedway)--Upper Basin Headquarters	1420-1440 Soldiers Field Rd	20100719
83000601	MASSACHUSETTS	Suffolk	Boston	Charles Street African Methodist Episcopal Church	551 Warren St.	20140415
97000969	MASSACHUSETTS	Suffolk	Boston	Charlestown Heights	Roughly bounded by St. Martin, Bunker Hill, Medford, and Sackville Sts.	19980108
01000089	MASSACHUSETTS	Suffolk	Chelsea	Chelsea Garden Cemetery	70 Central Ave. (formerly Shawmut St.)	20010209
09000144	MASSACHUSETTS	Suffolk	Chelsea	Chelsea Square Historic District	Roughly area around Broadway, Medford. Tremont, Park, Cross and Winnisimmet Sts.	19820408
89002271	MASSACHUSETTS	Suffolk	Boston	Chestnut Hill Reservoir Historic District	Beacon St. and Commonwealth Ave.	19900118
86000140	MASSACHUSETTS	Suffolk	Boston	Christ Church	1220 River Rd.	19860130
99001614	MASSACHUSETTS	Suffolk	Boston	Church Green Buildings Historic District	101-113 Summer St.	19991230
84000430	MASSACHUSETTS	Suffolk	Revere	Church of Christ	265 Beech St.	19841113
74000911	MASSACHUSETTS	Suffolk	Boston	Clapp Houses	199 and 195 Boston St.	19740502
83004097	MASSACHUSETTS	Suffolk	Boston	Codman Building	55 Kilby St.	19831019
83000602	MASSACHUSETTS	Suffolk	Boston	Codman Square District	Norfolk, Talbot, Epping, Lithgow, Centre, and Moultrie Sts.	20140415
05000559	MASSACHUSETTS	Suffolk	Boston	Collins Building	213-217 Washington St.	20050608
12001162	MASSACHUSETTS	Suffolk	Boston	Commonwealth Pier Five	165 Northern Ave.	19791010
08001284	MASSACHUSETTS	Suffolk	Boston	Compton Building	159, 161-175 Devonshire St., 18-20 Arch St.	20081231
99001304	MASSACHUSETTS	Suffolk	Boston	Congregation Adath Jeshurun	397 Blue Hill Ave.	19991112
93000283	MASSACHUSETTS	Suffolk	Chelsea	Congregation Agudath Shalom	145 Walnut St.	19930416
87001396	MASSACHUSETTS	Suffolk	Boston	Congress Street Fire Station	344 Congress St.	19870903
74000385	MASSACHUSETTS	Suffolk	Boston	Copp's Hill Burial Ground	Charter, Snowhill, and Hull Sts.	19740418
90000631	MASSACHUSETTS	Suffolk	Boston	Copp's Hill Terrace	Between Commercial and Charter Sts. W of Jackson Place	19900419
72000145	MASSACHUSETTS	Suffolk	Boston	Crowninshield House	164 Marlborough St.	19720223
73000321	MASSACHUSETTS	Suffolk	Boston	Custom House District	Between J.F.K. Expwy. and Kirby St. and S. Market and High and Batterymarch Sts.	19730511
73000318	MASSACHUSETTS	Suffolk	Boston	Cyclorama Building	543-547 Tremont St.	19730413
13000928	MASSACHUSETTS	Suffolk	Boston	Davidson, Sarah, Apartment Block	3 Gaylord St.	20131218
00000871	MASSACHUSETTS	Suffolk	Boston	Dearborn School	25 Ambrose St.	20000802
80000448	MASSACHUSETTS	Suffolk	Boston	Dill Building	11-25 Stuart St.	19801209
80001683	MASSACHUSETTS	Suffolk	Boston	Dillaway School	16-20 Kenilworth St.	19800409
85000317	MASSACHUSETTS	Suffolk	Boston	Dimock Community Health Center Complex	41 and 55 Dimock St.	19850221
87002549	MASSACHUSETTS	Suffolk	Boston	District 13 Police Station	28 Seaverns Ave.	19880210
01001198	MASSACHUSETTS	Suffolk	Dorchester	Dorchester Heights Historic District	Roughly a one block area surrounding Telegraph Hill	20011101
66000050	MASSACHUSETTS	Suffolk	Boston	Dorchester Heights National Historic Site	South Boston	19661015
74000915	MASSACHUSETTS	Suffolk	Boston	Dorchester North Burying Ground	Stroughton St. and Columbia Rd.	19740418
08000089	MASSACHUSETTS	Suffolk	Boston	Dorchester Park	Bounded by Dorchester Ave., Richmond, Adams & Richview Sts.	20080220
85000318	MASSACHUSETTS	Suffolk	Boston	Dorchester Pottery Works	101-105 Victory Rd.	19850221
14000365	MASSACHUSETTS	Suffolk	Boston	Dorchester South Burying Ground	2095 Dorchester Ave.	20140627
97001239	MASSACHUSETTS	Suffolk	Boston	Dorchester Temple Baptist Church	670 Washington St.	19980116
80000675	MASSACHUSETTS	Suffolk	Boston	Dorchester-Milton Lower Mills Industrial District	Both sides of Neponset River	19800402
01000304	MASSACHUSETTS	Suffolk	Boston	Dorchester--Milton Lower Mills Industrial District (Boundary Increase)	Roughly: Adams, River, Medway Sts., Millers Lane, Eliot and Adams Sts.	20010406
96001063	MASSACHUSETTS	Suffolk	Boston	Douglass, Frederick, Square Historic District	Roughly bounded by Hammond St., Cobat St., Windsor St., and Westminister St., Lower Roxbury	19961003
88000718	MASSACHUSETTS	Suffolk	Chelsea	Downtown Chelsea Residential Historic District	Roughly bounded by Shurtleff, Marginal, and Division Sts. and Bellingham Sq.	19880622
85003074	MASSACHUSETTS	Suffolk	Boston	Dudley Station Historic District	Washington, Warren, and Dudley Sts.	19851205
98000149	MASSACHUSETTS	Suffolk	Boston	Eagle Hill Historic District	Roughly bounded by Border, Lexington, Trenton, and Falcon Sts.	19980226
06000127	MASSACHUSETTS	Suffolk	Boston	East Boston High School, Old	127 Marion St.	20060315
10000039	MASSACHUSETTS	Suffolk	Boston	EDNA G. shipwreck (Eastern Rig dragger)	Address Restricted	20101122
10001066	MASSACHUSETTS	Suffolk	Boston	Egleston Substation	3025 Washington St	20101227
74000388	MASSACHUSETTS	Suffolk	Boston	Eliot Burying Ground	Eustis and Washington Sts.	19740625
93001587	MASSACHUSETTS	Suffolk	Boston	Eliot Congregational Church	56 Dale St., corner 118--120 Walnut St.	19940209
88000959	MASSACHUSETTS	Suffolk	Boston	Eliot Hall	7A Eliot St.	19880715
85003375	MASSACHUSETTS	Suffolk	Boston	Engine House No. 34	444 Western Ave.	19851024
66000366	MASSACHUSETTS	Suffolk	Boston	Ether Dome, Massachusetts General Hospital	Fruit St.	19661015
09000612	MASSACHUSETTS	Suffolk	Boston	Evergreen Cemetery	2060 Commonwealth Ave.	20090814
09000717	MASSACHUSETTS	Suffolk	Boston	Fairview Cemetery	45 Fairview Ave.	20090916
66000368	MASSACHUSETTS	Suffolk	Boston	Faneuil Hall	Dock Sq.	19661015
94001492	MASSACHUSETTS	Suffolk	Boston	Faneuil, Peter, School	60 Joy St.	19941216

12000069	MASSACHUSETTS	Suffolk	Boston	Fenway Park	24, & 2-4 Yawkey Wy., 64-76 Brookline Ave., & 70-80 Lansdowne St.	20120307
78000473	MASSACHUSETTS	Suffolk	Boston	Fenway Studios	30 Ipswich St.	19780913
84002875	MASSACHUSETTS	Suffolk	Boston	Fenway-Boylston Street District	Fenway, Boylston, Westland, and Hemenway Sts.	19840904
81000620	MASSACHUSETTS	Suffolk	Boston	Fields Corner Municipal Building	1 Arcadia St., 195 Adams St.	19811112
86001909	MASSACHUSETTS	Suffolk	Boston	Filene's Department Store	426 Washington St.	19860724
72000146	MASSACHUSETTS	Suffolk	Boston	First Baptist Church	Commonwealth Ave. and Clarendon St.	19720223
88000955	MASSACHUSETTS	Suffolk	Boston	First Church of Jamaica Plain	6 Eliot St.	19880715
99001308	MASSACHUSETTS	Suffolk	Boston	First Congregational Church of Hyde Park	6 Webster St.	19991112
04001219	MASSACHUSETTS	Suffolk	Boston	Forest Hills Cemetery	95 Forest Hills Ave.	20041117
07000144	MASSACHUSETTS	Suffolk	Winthrop	Fort Banks Mortar Battery	Kennedy Dr.	20070312
70000921	MASSACHUSETTS	Suffolk	Boston	Fort Independence	Castle Island	19701015
04000959	MASSACHUSETTS	Suffolk	Boston	Fort Point Channel Historic District	Necco Court, Thomson Place, A, Binford, Congress, Farnsworth, Melcher, Midway, Sleeper, Stillings, Summer Sts.	20040910
70000540	MASSACHUSETTS	Suffolk	Boston	Fort Warren	Georges Island, Boston Harbor	19700829
02000081	MASSACHUSETTS	Suffolk	Boston	Frances and Isabella Apartments	430-432 and 434-436 Dudley St.	20020222
73000319	MASSACHUSETTS	Suffolk	Boston	Fulton-Commercial Streets District	Fulton, Commercial, Mercantile, Lewis, and Richmond Sts.	19730321
00000160	MASSACHUSETTS	Suffolk	Boston	Fulton-Commercial Streets Historic District (Boundary Increase)	81-95 Richmond St.	20000303
83000603	MASSACHUSETTS	Suffolk	Boston	Gardner, Isabella Stewart, Museum	280 The Fenway	20140415
66000653	MASSACHUSETTS	Suffolk	Boston	Garrison, William Lloyd, House	125 Highland St.	19661015
80000674	MASSACHUSETTS	Suffolk	Boston	Garrison, William Lloyd, School	20 Hutchings St.	19800416
01001048	MASSACHUSETTS	Suffolk	Boston	Gibson House	137 Beacon St.	20010807
07000510	MASSACHUSETTS	Suffolk	Boston	Goldsmith Block	41 Ruggles St., 746-750 Shawmut Ave.	20070605
88000908	MASSACHUSETTS	Suffolk	Boston	Goodwin, Ozias, House	7 Jackson Ave.	19880623
88000957	MASSACHUSETTS	Suffolk	Boston	Greek Orthodox Cathedral of New England	520 Parker St.	19880630
02000154	MASSACHUSETTS	Suffolk	Boston	Greenwood Memorial United Methodist Church	378A-380 Washington St.	20020308
82004453	MASSACHUSETTS	Suffolk	Boston	Haffenreffer Brewery	Germania St.	19820502
73000325	MASSACHUSETTS	Suffolk	Boston	Hale, Edward Everett, House	12 Morley St.	19790321
66000764	MASSACHUSETTS	Suffolk	Boston	Harding, Chester, House	16 Beacon St.	19661015
02001190	MASSACHUSETTS	Suffolk	Boston	Harrison Square Historic District	Bounded by MBTA Braintree line embankment, Park, Everett, Freeport, Mill, Asland, Blanche Sts., Victory Rd.	20021022
86000375	MASSACHUSETTS	Suffolk	Boston	Harriswood Crescent	60--88 Harold St.	19860313
83000605	MASSACHUSETTS	Suffolk	Boston	Harvard Avenue Fire Station	16 Harvard Ave.	20140415
00000415	MASSACHUSETTS	Suffolk	Boston	Harvard Avenue Historic District	Roughly bounded by Linden St., Commonwealth AVe., Harvard Ave., and Park Vale Ave.	20000428
87000757	MASSACHUSETTS	Suffolk	Boston	Harvard Stadium	60 N. Harvard St.	19870227
04000085	MASSACHUSETTS	Suffolk	Boston	Haskell, Edward H., Home for Nurses	220 Fisther Ave., 63 Parker Hill Ave.	20040226
80000446	MASSACHUSETTS	Suffolk	Boston	Hayden Building	681-683 Washington St.	19801209
66000765	MASSACHUSETTS	Suffolk	Boston	Headquarters House	55 Beacon St.	19661015
04000534	MASSACHUSETTS	Suffolk	Boston	Hibernian Hall	182-186 Dudley St.	20040602
10000300	MASSACHUSETTS	Suffolk	Boston	Highland Spring Brewery Bottling and Storage Buildings	154-166 Terrace St	20100528
05000879	MASSACHUSETTS	Suffolk	Boston	Home for Aged Couples	409, 419 Walnut Ave. and 2055 Columbus Ave.	20050811
85002339	MASSACHUSETTS	Suffolk	Charlestown	Hoosac Stores 1 & 2-Hoosac Stores 3	25 and 115 Water St.	19850814
93001573	MASSACHUSETTS	Suffolk	Boston	House at 1 Bay Street	1 Bay St.	19940209
87001398	MASSACHUSETTS	Suffolk	Boston	House at 17 Cranston Street	17 Cranston St.	19871120
74002044	MASSACHUSETTS	Suffolk	Boston	Howe, Samuel Gridley and Julia Ward, House	13 Chestnut St.	19740913
87001399	MASSACHUSETTS	Suffolk	Boston	Hoxie, Timothy, House	135 Hillside St.	19871120
01001559	MASSACHUSETTS	Suffolk	Revere	Immaculate Conception Rectory	108 Beach St.	20020211
79000369	MASSACHUSETTS	Suffolk	Boston	International Trust Company Building	39-47 Milk St.	19790910
74000391	MASSACHUSETTS	Suffolk	Boston	John Adams Courthouse	Pemberton Sq.	19740508
73000854	MASSACHUSETTS	Suffolk	Boston	John Eliot Square District	John Eliot Sq.	19730423
08000793	MASSACHUSETTS	Suffolk	Boston	Joshua Bates School	731 Harrison Ave.	20080822
82004464	MASSACHUSETTS	Suffolk	Chelsea	Kimball, C. Henry, House	295 Washington St.	19820415
74002045	MASSACHUSETTS	Suffolk	Boston	King's Chapel	Tremont and School Sts.	19740502
73000855	MASSACHUSETTS	Suffolk	Boston	Kittredge, Alvah, House	12 Linwood St.	19730508
83000606	MASSACHUSETTS	Suffolk	Boston	Lawrence Model Lodging Houses	79, 89, 99 and 109 E. Canton St.	20140415
83004098	MASSACHUSETTS	Suffolk	Boston	Leather District	Roughly bounded by Atlantic Ave., Kneeland, Lincoln, and Essex Sts.	19831221
80000460	MASSACHUSETTS	Suffolk	Boston	Liberty Tree District	Roughly bounded by Harrison Ave., Washington, Essex and Beach Sts.	19801209
86001911	MASSACHUSETTS	Suffolk	Boston	Locke--Ober Restaurant	3--4 Winter Pl.	19860724
87001481	MASSACHUSETTS	Suffolk	Boston	Long Island Head Light	Long Island	19870615
66000768	MASSACHUSETTS	Suffolk	Boston	Long Wharf and Customhouse Block	Foot of State St.	19661113
83000604	MASSACHUSETTS	Suffolk	Boston	Loring, Harrison, House	789 E. Broadway St.	19830901

72000544	MASSACHUSETTS	Suffolk	Boston	Loring-Greenough House	12 South St.	19720426
94001494	MASSACHUSETTS	Suffolk	Boston	Lower Roxbury Historic District	Roughly, area surrounding Coventry, Cunard, and Walpole Sts.	19941209
83004099	MASSACHUSETTS	Suffolk	Boston	LUNA (tugboat)	NDC Pier, Charles River	19831006
99001302	MASSACHUSETTS	Suffolk	Boston	Mariner's House	11 North Square	19991112
70000682	MASSACHUSETTS	Suffolk	Boston	Massachusetts General Hospital	Fruit Street	19701230
66000770	MASSACHUSETTS	Suffolk	Boston	Massachusetts Historical Society Building	1154 Boylston St.	19661015
93001489	MASSACHUSETTS	Suffolk	Boston	Massachusetts Mental Health Center	74 Fenwood Rd.	19940121
89000974	MASSACHUSETTS	Suffolk	Boston	Massachusetts School of Art	364 Brookline Ave.	19890803
66000771	MASSACHUSETTS	Suffolk	Boston	Massachusetts Statehouse	Beacon Hill	19661015
82004450	MASSACHUSETTS	Suffolk	Boston	McKay, Donald, House	78-80 White St.	19820602
80000445	MASSACHUSETTS	Suffolk	Boston	Metropolitan Theatre	252-272 Tremont St.	19801209
89001747	MASSACHUSETTS	Suffolk	Boston	Mission Hill Triangle Historic District	Roughly bounded by Smith St., Worthington St., Tremont St., and Huntington Ave.	19891106
87001128	MASSACHUSETTS	Suffolk	Boston	Monument Square Historic District	Monument Sq.	19870602
90001536	MASSACHUSETTS	Suffolk	Boston	Monument Square Historic District	Roughly bounded by Jamaicaway, Pond, Centre and Eliot Sts.	19901011
84002890	MASSACHUSETTS	Suffolk	Boston	Moreland Street Historic District	Roughly bounded by Kearsarge, Blue Hill Aves., Warren, Waverly, and Winthrop Sts.	19840329
04001572	MASSACHUSETTS	Suffolk	Boston	Morton Street, Metropolitan Park System of Greater Boston	Morton St.	20050124
09000767	MASSACHUSETTS	Suffolk	Boston	Mount Hope Cemetery	355 Walk Hill St.	20090924
89000004	MASSACHUSETTS	Suffolk	Boston	Mount Pleasant Historic District	Roughly bounded by Forest St. and Mount Pleasant Ave.	19890209
73000851	MASSACHUSETTS	Suffolk	Chelsea	Naval Hospital Boston Historic District	1 Broadway	19730814
04000426	MASSACHUSETTS	Suffolk	Boston	Nazing Court Apartments	224-236 Seaver St. and 1-8 Nazing Court	20040512
76001979	MASSACHUSETTS	Suffolk	Boston	Nell, William C., House	3 Smith Ct.	19760511
04001573	MASSACHUSETTS	Suffolk	Boston	Neponset Valley Parkway, Metorpolitan Park System of Greater Boston	Neponset Valley Parkway	20050124
80000672	MASSACHUSETTS	Suffolk	Boston	New England Conservatory of Music	290 Huntington Ave.	19800514
87001394	MASSACHUSETTS	Suffolk	Boston	New Riding Club	52 Hemenway St.	19870820
83000607	MASSACHUSETTS	Suffolk	Boston	Newspaper Row	322-328 Washington St., 5-23 Milk St., and 11 Hawley St.	20140415
97000878	MASSACHUSETTS	Suffolk	Winthrop	Newton, Edward B., School	131 Pauline St. (formerly 45 Pauline St.)	19970818
04000189	MASSACHUSETTS	Suffolk	Boston	Nix's Mate Daybeacon	Nubble Channel, The Narrows, Boston Harbor	20040318
97000971	MASSACHUSETTS	Suffolk	Boston	North Terminal Garage	600 Commercial St.	19970911
80000465	MASSACHUSETTS	Suffolk	Boston	Oak Square School	35 Nonantum St.	19801110
08000795	MASSACHUSETTS	Suffolk	Boston	Ohabei Shalom Cemetery	147 Wordsworth St.	20080819
70000687	MASSACHUSETTS	Suffolk	Boston	Old City Hall	School and Providence Sts.	19701230
73000322	MASSACHUSETTS	Suffolk	Boston	Old Corner Bookstore	NW corner of Washington and School Sts.	19730411
08000693	MASSACHUSETTS	Suffolk	Boston	Old Harbor Reservation Parkways, Metropolitan Park System of Greater Boston	William J. Day Blvd., Columbia Rd. between Farragut Rd and Kosciuszko Cir., Old Colony Ave. between Pacuska Ave.	20080724
66000776	MASSACHUSETTS	Suffolk	Boston	Old North Church	193 Salem St.	19661015
70000690	MASSACHUSETTS	Suffolk	Boston	Old South Church in Boston	645 Boylston St.	19701230
66000778	MASSACHUSETTS	Suffolk	Boston	Old South Meetinghouse	Milk and Washington Sts.	19661015
66000779	MASSACHUSETTS	Suffolk	Boston	Old State House	Washington and State Sts.	19661015
70000691	MASSACHUSETTS	Suffolk	Boston	Old West Church	131 Cambridge St.	19701230
70000539	MASSACHUSETTS	Suffolk	Boston	Otis, (First) Harrison Gray, House	141 Cambridge St.	19701230
73001955	MASSACHUSETTS	Suffolk	Boston	Otis, (Second) Harrison Gray, House	85 Mt. Vernon St.	19730727
02001039	MASSACHUSETTS	Suffolk	Boston	Paine Furniture Building	75-81 Arlington St.	20020912
74000390	MASSACHUSETTS	Suffolk	Boston	Park Street District	Tremont, Park, and Beacon Sts.	19740501
66000782	MASSACHUSETTS	Suffolk	Boston	Parkman, Francis, House	50 Chestnut St.	19661015
01000872	MASSACHUSETTS	Suffolk	Boston	Peabody, The	195-197 Ashmont St.	20010808
74000907	MASSACHUSETTS	Suffolk	Boston	Phipps Street Burying Ground	Phipps St.	19740514
80000458	MASSACHUSETTS	Suffolk	Boston	Piano Row District	Boston Common, Park Sq., Boylston Pl. and Tremont St.	19801209
74000917	MASSACHUSETTS	Suffolk	Boston	Pierce House	24 Oakton Ave.	19740426
68000042	MASSACHUSETTS	Suffolk	Boston	Pierce-Hichborn House	29 North Sq.	19681124
13000929	MASSACHUSETTS	Suffolk	Boston	Pilgrim Congregational Church	540-544 Columbia Rd.	20131218
03000781	MASSACHUSETTS	Suffolk	Boston	Publicity Building	40-44 Bromfield St.	20030820
66000784	MASSACHUSETTS	Suffolk	Boston	Quincy Market	S. Market St.	19661113
03000642	MASSACHUSETTS	Suffolk	Revere	Revere Beach Reservation	Revere Beach Boulevard, Eliot Circle to Northern Circle	20030527
98000871	MASSACHUSETTS	Suffolk	Revere	Revere Beach Reservation Historic District	Roughly bounded by Eliot Circle, Revere Beach Blvd., Northern Circle, and Atlantic Ocean	19980715
12000070	MASSACHUSETTS	Suffolk	Revere	Revere City Hall and Police Station	281 Broadway & 23 Pleasant St.	20120307
66000785	MASSACHUSETTS	Suffolk	Boston	Revere, Paul, House	19 North Sq.	19661015
92001874	MASSACHUSETTS	Suffolk	Jamaica Plain	Richards, Ellen H. Swallow, House	32 Eliot St.	19920331
86001504	MASSACHUSETTS	Suffolk	Boston	Richardson Block	113--151 Pearl and 109--119 High Sts.	19860809
95001450	MASSACHUSETTS	Suffolk	Boston	Riviera, The	270 Huntington Ave.	19951207

82000485	MASSACHUSETTS	Suffolk	Revere	Ronan, Mary, T., School	154 Bradstreet Ave.	20140415
97001278	MASSACHUSETTS	Suffolk	Boston	ROSEWAY (schooner)	Boston Harbor	19970925
98001330	MASSACHUSETTS	Suffolk	Boston	Roslindale Baptist Church	52 Cummins Hwy.	19981105
91000925	MASSACHUSETTS	Suffolk	Roslindale	Roslindale Congregational Church	25 Cummins Hwy., at jct. with Summer Ave.	19910726
13000621	MASSACHUSETTS	Suffolk	Boston	Roslindale Substation	4228 Washington St.	20130827
82004448	MASSACHUSETTS	Suffolk	Boston	Roughan Hall	15-18 City Sq.	19820415
73000856	MASSACHUSETTS	Suffolk	Boston	Roxbury High Fort	Beech Glen St. at Fort Ave.	19730423
89000147	MASSACHUSETTS	Suffolk	Boston	Roxbury Highlands Historic District	Roughly bounded by Dudley St., Washington St., and Columbus Ave.	19890222
89002125	MASSACHUSETTS	Suffolk	Boston	Roxbury Presbyterian Church	328 Warren St.	19910315
04000025	MASSACHUSETTS	Suffolk	Revere	Rumney Marsh Burying Ground	Butler St. at Elm and Bixby Sts.	20040211
80000463	MASSACHUSETTS	Suffolk	Boston	Russia Wharf Buildings	518-540 Atlantic Ave., 270 Congress St. and 276-290 Congress St.	19801202
87001495	MASSACHUSETTS	Suffolk	Boston	Saint Augustine Chapel and Cemetery	Dorchester St. between W. Sixth and Tudor Sts.	19870918
12000783	MASSACHUSETTS	Suffolk	Boston	Saint Mark's Episcopal Church	73 Columbia Rd.	20140703
03000385	MASSACHUSETTS	Suffolk	Boston	Savin Hill Historic District	Roughly bounded by Savin Hill Ave., Morrissey Blvd., Dorchester Bay, and I-93	20030509
86001486	MASSACHUSETTS	Suffolk	Boston	Sears' Crescent and Sears' Block	38--68 and 70--72 Cornhill	19860809
90001992	MASSACHUSETTS	Suffolk	Boston	Sears Roebuck and Company Mail Order Store	309 Park Dr. and 201 Brookline Ave.	19910115
70000731	MASSACHUSETTS	Suffolk	Boston	Sears, David, House	42 Beacon St.	19701230
86001913	MASSACHUSETTS	Suffolk	Boston	Second Brazer Building	25--29 State St.	19860724
10000391	MASSACHUSETTS	Suffolk	Boston	Second Church in Boston	874, 876, 880 Beacon St	20100624
12000978	MASSACHUSETTS	Suffolk	Boston	Sherman Apartments Historic District	544-546 Washington, 4-6, 12-14, 18 Lyndhurst Sts.	20121128
66000787	MASSACHUSETTS	Suffolk	Roxbury	Shirley-Eustis House	31-37 Shirley St.	19661015
80000444	MASSACHUSETTS	Suffolk	Boston	Shubert, Sam S., Theatre	263-265 Tremont St.	19801209
09000709	MASSACHUSETTS	Suffolk	Revere	Slade Spice Mill	770 Revere Beach Parkway	19720630
05000936	MASSACHUSETTS	Suffolk	Boston	South Boston Boat Clubs Historic District	1793-1849 William J. Day Blvd.	20050901
73000324	MASSACHUSETTS	Suffolk	Boston	South End District	South Bay area between Huntington and Harrison Aves.	19730508
75000299	MASSACHUSETTS	Suffolk	Boston	South Station Headhouse	Atlantic Ave. and Summer St.	19750213
89002169	MASSACHUSETTS	Suffolk	Boston	St. Joseph's Roman Catholic Church Complex	Bounded by Circuit, Regent, Hulbert, and Fenwick Sts.	19891228
97001472	MASSACHUSETTS	Suffolk	Boston	St. Luke's and St. Margaret's Church	5-7 St. Luke's Rd.	19971112
98001292	MASSACHUSETTS	Suffolk	Boston	St. Mary's Episcopal Church	14-16 Cushing Ave.	19981030
70000730	MASSACHUSETTS	Suffolk	Boston	St. Paul's Church	136 Tremont St.	19701230
75000300	MASSACHUSETTS	Suffolk	Boston	St. Stephen's Church	Hanover St. between Clark and Harris Sts.	19750414
80000671	MASSACHUSETTS	Suffolk	Boston	Stearns, R. H., House	140 Tremont St.	19800616
05001509	MASSACHUSETTS	Suffolk	Boston	Stony Brook Reservation Parkways, Metropolitan Park System of Great Boston MPS	Dedham, Enneking, Turtle Pond Parkways, Smith Field, Reservation, W. Border Rds.	20060103
97000970	MASSACHUSETTS	Suffolk	Boston	Students House	96 The Fenway	19970911
80000670	MASSACHUSETTS	Suffolk	Boston	Suffolk County Jail	215 Charles St.	19800423
87001889	MASSACHUSETTS	Suffolk	Boston	Sumner Hill Historic District	Roughly bounded by Seaverns Ave., Everett St., Carolina Ave., & Newbern St.	19871022
73001953	MASSACHUSETTS	Suffolk	Boston	Sumner, Charles, House	20 Hancock St.	19731107
75000301	MASSACHUSETTS	Suffolk	Boston	Symphony and Horticultural Halls	Massachusetts and Huntington Aves.	19750530
99000633	MASSACHUSETTS	Suffolk	Boston	Symphony Hall	301 Massachusetts Avenue	19990120
88000427	MASSACHUSETTS	Suffolk	Boston	Temple Place Historic District	11--55, 26--58 Temple Pl.	19880726
12000099	MASSACHUSETTS	Suffolk	Boston	Terminal Storage Warehouse District	267-281 Medford St., 40 & 50 Terminal St.	20120312
90001757	MASSACHUSETTS	Suffolk	Boston	Textile District	Roughly, Essex St. from Phillips Sq. to Columbia St. and Chauncy St. from Phillips Sq. to Rowe Pl.	19901129
73000850	MASSACHUSETTS	Suffolk	Boston	Town Hill District	Bounded roughly by Rutherford Ave. and Main and Warren Sts.	19730511
66000788	MASSACHUSETTS	Suffolk	Boston	Tremont Street Subway	Beneath Tremont, Boylston, and Washington Sts.	19661015
70000733	MASSACHUSETTS	Suffolk	Boston	Trinity Church	Copley Sq.	19700701
92000356	MASSACHUSETTS	Suffolk	Boston	Trinity Neighborhood House	406 Meridian St.	19920414
72000150	MASSACHUSETTS	Suffolk	Boston	Trinity Rectory	Clarendon and Newbury Sts.	19720223
76002003	MASSACHUSETTS	Suffolk	Dorchester	Trotter, William Monroe, House	97 Sawyer Ave.	19760511
04001430	MASSACHUSETTS	Suffolk	Boston	Truman Parkway--Metropolitan Park System of Greater Boston	Truman Parkway	20050105
66000789	MASSACHUSETTS	Suffolk	Boston	U.S.S. CONSTITUTION	Boston Naval Shipyard	19661015
03000645	MASSACHUSETTS	Suffolk	Boston	Union Oyster House	41-43 Union Street	20030527
80000669	MASSACHUSETTS	Suffolk	Boston	Union Wharf	295-353 Commercial St.	19800622
80000668	MASSACHUSETTS	Suffolk	Boston	United Shoe Machinery Corporation Building	138-164 Federal St.	19800819
11000160	MASSACHUSETTS	Suffolk	Boston	United State Post Office, Courthouse, and Federal Building	5 Post Office Square	20110408
90001537	MASSACHUSETTS	Suffolk	Boston	Upham's Corner Market	600 Columbia Rd.	19901011
86001378	MASSACHUSETTS	Suffolk	South Boston	US Post Office Garage	135 A St.	19860626
86000084	MASSACHUSETTS	Suffolk	Boston	USS CASSIN YOUNG (destroyer)	Charlestown Navy Yard	19860114
84000421	MASSACHUSETTS	Suffolk	Boston	Vermont Building	6-12 Thacher St.	19841113

04001432	MASSACHUSETTS	Suffolk	Boston	VFW Parkway, Metropolitan Park System of Greater Boston	VFW Parkway, bet. Spring And Centre Sts.	20050105
13000930	MASSACHUSETTS	Suffolk	Boston	Walton and Roslin Halls	702-708 & 710-726 Washington St., 3-5 Walton St.	20131218
79000370	MASSACHUSETTS	Suffolk	Boston	Washington Street Theatre District	511-559 Washington St.	19790319
80000455	MASSACHUSETTS	Suffolk	Boston	West Street District	West St.	19801209
87001401	MASSACHUSETTS	Suffolk	West Roxbury	Westerly Burial Ground	Centre St.	19871120
82000486	MASSACHUSETTS	Suffolk	Boston	Wigglesworth Building	89-83 Franklin St.	20140415
80000443	MASSACHUSETTS	Suffolk	Boston	Wilbur Theatre	244-250 Tremont St.	19801209
74000392	MASSACHUSETTS	Suffolk	Boston	Winthrop Building	7 Water St.	19740418
10000098	MASSACHUSETTS	Suffolk	Winthrop	Winthrop Center/Metcalf Square Historic District	roughly bounded by Lincoln, Winthrop Sts., Winthrop Cemetery, Buchanan, Fremont, Pauline, Hermon and Belcher Sts.	20100323
03001471	MASSACHUSETTS	Suffolk	Revere	Winthrop Parkway, Metropolitan Parkway System of Greater Boston	Winthrop Parkway	20040121
03001469	MASSACHUSETTS	Suffolk	Winthrop	Winthrop Shore Dr., Metropolitan Park System of Greater Boston	Winthrop Shore Dr.	20040121
90000162	MASSACHUSETTS	Suffolk	Winthrop	Winthrop, Deane, House	34 Shirley St. (formerly 40 Shirley St.)	19900309
80000442	MASSACHUSETTS	Suffolk	Boston	Wirth, Jacob, Buildings	31-39 Stuart St.	19801209
99000593	MASSACHUSETTS	Suffolk	Boston	Woodbourne Historic District	Roughly bounded by Walk Hill, Goodway, and Wachusett Sts.	19990604
74000393	MASSACHUSETTS	Suffolk	Boston	Youth's Companion Building	209 Columbus Ave.	19740502
04000119	MASSACHUSETTS	Suffolk	Boston	YWCA Boston	140 Clarendon St.	20040303

APPENDIX E

Copy of BWSC 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: SCD 1350 Boylston Street, LLC Address: 253 Summer Street, Boston, MA 02210

Phone number: (617) 574-1485 Fax number: _____

Contact person name: Tammy Copson Title: _____

Cell number: _____ Email address: tammy.copson@skanska.com

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

Owner's Information (if different from above):

Owner of property being dewatered: _____

Owner's mailing address: _____ Phone number: _____

Location of Discharge & Proposed Treatment System(s):

Street number and name: 1350 Boylston St. Boston, MA 02215 Neighborhood Fenway (BWSC sheets 23H, 22H, 21H)

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

Describe Proposed Pre-Treatment System(s): bag filters, sedimentation tank, baffles

BWSC Outfall No. SD0042 Receiving Waters Charles River

Temporary Discharges (Provide Anticipated Dates of Discharge): From June 2015 To June 2017

☐ 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; _____

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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 Report

ANALYTICAL REPORT

Lab Number:	L1502164
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Mark Balfe
Phone:	(617) 886-7304
Project Name:	1350 BOYLSTON ST.
Project Number:	39151-025
Report Date:	02/10/15

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1502164-01	HA-A1 OW	WATER	Not Specified	02/03/15 10:30	02/03/15

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164
Project Number: 39151-025 **Report Date:** 02/10/15

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. All specific QC information is also incorporated in the Data Usability format of 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.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

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.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

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

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164
Project Number: 39151-025 **Report Date:** 02/10/15

Case Narrative (continued)

Dissolved Metals

The WG761169-4 MS recovery, performed on L1502164-01 (HA-A1 OW), is above the acceptance criteria for selenium (126%). A post digestion spike was performed and was within acceptance criteria.

Total Metals

The WG760625-3 Laboratory Duplicate RPD, performed on L1502164-01 (HA-A1 OW), is above the acceptance criteria for cadmium (35%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

Chlorine, Total Residual

A laboratory duplicate could not be performed due to insufficient sample volume available for analysis.

TPH

A laboratory duplicate could not be performed due to insufficient sample volume available for analysis.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 02/10/15

ORGANICS

VOLATILES

Project Name: 1350 BOYLSTON ST.
Lab Number: L1502164
Project Number: 39151-025
Report Date: 02/10/15

SAMPLE RESULTS

Lab ID: L1502164-01
Client ID: HA-A1 OW
Sample Location: Not Specified

Date Collected: 02/03/15 10:30
Date Received: 02/03/15
Field Prep: Field Filtered (Metals)

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/05/15 14:08
Analyst: MM

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
1,3-Dichloropropene, Total	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
1,2-Dichloroethene, Total	ND		ug/l	0.50	--	1

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID: L1502164-01 Date Collected: 02/03/15 10:30

Client ID: HA-A1 OW Date Received: 02/03/15

Sample Location: Not Specified Field Prep: Field Filtered (Metals)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
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
Xylenes, Total	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

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID: L1502164-01 Date Collected: 02/03/15 10:30

Client ID: HA-A1 OW Date Received: 02/03/15

Sample Location: Not Specified Field Prep: Field Filtered (Metals)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
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	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	110		70-130

Project Name: 1350 BOYLSTON ST.
Lab Number: L1502164
Project Number: 39151-025
Report Date: 02/10/15

SAMPLE RESULTS

Lab ID: L1502164-01
Client ID: HA-A1 OW
Sample Location: Not Specified

Date Collected: 02/03/15 10:30
Date Received: 02/03/15
Field Prep: Field Filtered (Metals)

Matrix: Water
Analytical Method: 1,8260C-SIM(M)
Analytical Date: 02/05/15 14:08
Analyst: MM

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: 1350 BOYLSTON ST.
Lab Number: L1502164
Project Number: 39151-025
Report Date: 02/10/15

SAMPLE RESULTS

Lab ID:	L1502164-01	Date Collected:	02/03/15 10:30
Client ID:	HA-A1 OW	Date Received:	02/03/15
Sample Location:	Not Specified	Field Prep:	Field Filtered (Metals)
Matrix:	Water		
Analytical Method:	14,504.1	Extraction Date:	02/06/15 11:00
Analytical Date:	02/06/15 13:21		
Analyst:	NS		

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

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 02/05/15 07:38
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG760936-3					
1,4-Dioxane	ND		ug/l	3.0	--

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/05/15 07:38
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG760940-3					
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	--
1,3-Dichloropropene, Total	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	--
1,2-Dichloroethene, Total	ND		ug/l	0.50	--

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/05/15 07:38
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG760940-3					
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	--
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	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	--

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/05/15 07:38
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG760940-3					
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	--
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	--
1,3,5-Trichlorobenzene	ND		ug/l	2.0	--
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	--
Methyl Acetate	ND		ug/l	10	--
Ethyl Acetate	ND		ug/l	10	--
Isopropyl Ether	ND		ug/l	2.0	--
Cyclohexane	ND		ug/l	10	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/l	10	--
Methyl cyclohexane	ND		ug/l	10	--
p-Diethylbenzene	ND		ug/l	2.0	--
4-Ethyltoluene	ND		ug/l	2.0	--

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/05/15 07:38
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG760940-3					
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	111		70-130

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 14,504.1
Analytical Date: 02/06/15 12:27
Analyst: NS

Extraction Date: 02/06/15 11:00

Parameter	Result	Qualifier	Units	RL	MDL	
Microextractables by GC - Westborough Lab for sample(s): 01 Batch: WG761111-1						
1,2-Dibromoethane	ND		ug/l	0.010	--	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG760936-1 WG760936-2								
1,4-Dioxane	87		102		70-130	16		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG760940-1 WG760940-2								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	97		107		70-130	10		20
Chloroform	95		105		70-130	10		20
Carbon tetrachloride	94		102		63-132	8		20
1,2-Dichloropropane	91		88		70-130	3		20
Dibromochloromethane	90		89		63-130	1		20
1,1,2-Trichloroethane	95		93		70-130	2		20
Tetrachloroethene	96		97		70-130	1		20
Chlorobenzene	98		100		75-130	2		25
Trichlorofluoromethane	95		106		62-150	11		20
1,2-Dichloroethane	98		102		70-130	4		20
1,1,1-Trichloroethane	97		104		67-130	7		20
Bromodichloromethane	93		98		67-130	5		20
trans-1,3-Dichloropropene	92		92		70-130	0		20
cis-1,3-Dichloropropene	90		93		70-130	3		20
1,1-Dichloropropene	92		99		70-130	7		20
Bromoform	91		88		54-136	3		20
1,1,2,2-Tetrachloroethane	103		96		67-130	7		20
Benzene	90		99		70-130	10		25
Toluene	98		100		70-130	2		25
Ethylbenzene	101		102		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG760940-1 WG760940-2								
Chloromethane	89		95		64-130	7		20
Bromomethane	120		136		39-139	13		20
Vinyl chloride	90		97		55-140	7		20
Chloroethane	98		110		55-138	12		20
1,1-Dichloroethene	105		114		61-145	8		25
trans-1,2-Dichloroethene	101		112		70-130	10		20
Trichloroethene	89		97		70-130	9		25
1,2-Dichlorobenzene	100		98		70-130	2		20
1,3-Dichlorobenzene	103		100		70-130	3		20
1,4-Dichlorobenzene	100		98		70-130	2		20
Methyl tert butyl ether	89		92		63-130	3		20
p/m-Xylene	102		102		70-130	0		20
o-Xylene	100		101		70-130	1		20
cis-1,2-Dichloroethene	94		103		70-130	9		20
Dibromomethane	95		98		70-130	3		20
1,4-Dichlorobutane	106		100		70-130	6		20
1,2,3-Trichloropropane	103		97		64-130	6		20
Styrene	103		104		70-130	1		20
Dichlorodifluoromethane	85		93		36-147	9		20
Acetone	127		116		58-148	9		20
Carbon disulfide	96		106		51-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG760940-1 WG760940-2								
2-Butanone	112		110		63-138	2		20
Vinyl acetate	93		96		70-130	3		20
4-Methyl-2-pentanone	95		95		59-130	0		20
2-Hexanone	110		97		57-130	13		20
Ethyl methacrylate	102		99		70-130	3		20
Acrylonitrile	97		96		70-130	1		20
Bromochloromethane	96		100		70-130	4		20
Tetrahydrofuran	99		97		58-130	2		20
2,2-Dichloropropane	98		106		63-133	8		20
1,2-Dibromoethane	96		92		70-130	4		20
1,3-Dichloropropane	96		93		70-130	3		20
1,1,1,2-Tetrachloroethane	91		90		64-130	1		20
Bromobenzene	98		95		70-130	3		20
n-Butylbenzene	103		102		53-136	1		20
sec-Butylbenzene	103		102		70-130	1		20
tert-Butylbenzene	98		98		70-130	0		20
o-Chlorotoluene	104		105		70-130	1		20
p-Chlorotoluene	101		100		70-130	1		20
1,2-Dibromo-3-chloropropane	97		88		41-144	10		20
Hexachlorobutadiene	98		98		63-130	0		20
Isopropylbenzene	106		100		70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG760940-1 WG760940-2								
p-Isopropyltoluene	103		101		70-130	2		20
Naphthalene	97		89		70-130	9		20
n-Propylbenzene	107		104		69-130	3		20
1,2,3-Trichlorobenzene	101		93		70-130	8		20
1,2,4-Trichlorobenzene	101		94		70-130	7		20
1,3,5-Trimethylbenzene	100		98		64-130	2		20
1,3,5-Trichlorobenzene	98		96		70-130	2		20
1,2,4-Trimethylbenzene	101		98		70-130	3		20
trans-1,4-Dichloro-2-butene	96		90		70-130	6		20
Ethyl ether	102		107		59-134	5		20
Methyl Acetate	96		99		70-130	3		20
Ethyl Acetate	94		96		70-130	2		20
Isopropyl Ether	89		94		70-130	5		20
Cyclohexane	90		99		70-130	10		20
Tert-Butyl Alcohol	92		98		70-130	6		20
Ethyl-Tert-Butyl-Ether	86		91		70-130	6		20
Tertiary-Amyl Methyl Ether	87		91		66-130	4		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		109		70-130	9		20
Methyl cyclohexane	89		96		70-130	8		20
p-Diethylbenzene	99		96		70-130	3		20
4-Ethyltoluene	105		103		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG760940-1 WG760940-2								
1,2,4,5-Tetramethylbenzene	98		94		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		101		70-130
Toluene-d8	101		103		70-130
4-Bromofluorobenzene	104		100		70-130
Dibromofluoromethane	95		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab	Associated sample(s): 01		Batch: WG761111-2						
1,2-Dibromoethane	104		-		70-130	-		20	A

Matrix Spike Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Microextractables by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG761111-3 QC Sample: L1502164-01 Client ID: HA-A1 OW													
1,2-Dibromoethane	ND	0.253	0.258	102		-	-		70-130	-		20	A

SEMIVOLATILES

Project Name: 1350 BOYLSTON ST.
Lab Number: L1502164
Project Number: 39151-025
Report Date: 02/10/15

SAMPLE RESULTS

Lab ID: L1502164-01
Client ID: HA-A1 OW
Sample Location: Not Specified

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 02/06/15 02:07
Analyst: RC

Date Collected: 02/03/15 10:30
Date Received: 02/03/15
Field Prep: Field Filtered (Metals)

Extraction Method: EPA 3510C
Extraction Date: 02/04/15 01:05

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
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

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID: L1502164-01 Date Collected: 02/03/15 10:30

Client ID: HA-A1 OW Date Received: 02/03/15

Sample Location: Not Specified Field Prep: Field Filtered (Metals)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	--	1
n-Nitrosodimethylamine	ND		ug/l	2.0	--	1
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	ND		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	ND		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	37		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	91		41-149

Project Name: 1350 BOYLSTON ST.
Lab Number: L1502164
Project Number: 39151-025
Report Date: 02/10/15

SAMPLE RESULTS

Lab ID: L1502164-01
Client ID: HA-A1 OW
Sample Location: Not Specified

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 02/04/15 12:03
Analyst: MW

Date Collected: 02/03/15 10:30
Date Received: 02/03/15
Field Prep: Field Filtered (Metals)

Extraction Method: EPA 3510C
Extraction Date: 02/04/15 01:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		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	0.24		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	ND		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	ND		ug/l	0.20	--	1
2-Methylnaphthalene	ND		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

Project Name: 1350 BOYLSTON ST.
Lab Number: L1502164
Project Number: 39151-025
Report Date: 02/10/15

SAMPLE RESULTS

Lab ID: L1502164-01
Client ID: HA-A1 OW
Sample Location: Not Specified
Date Collected: 02/03/15 10:30
Date Received: 02/03/15
Field Prep: Field Filtered (Metals)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	80		41-149

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/04/15 10:38
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 02/04/15 01:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG760370-1					
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	--
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	--

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/04/15 10:38
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 02/04/15 01:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG760370-1					
Dibenzofuran	ND		ug/l	2.0	--
n-Nitrosodimethylamine	ND		ug/l	2.0	--
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	25		21-120
Phenol-d6	16		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	81		41-149

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/04/15 11:10
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 02/04/15 01:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG760372-1					
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: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 02/04/15 11:10
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 02/04/15 01:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG760372-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	25		21-120
Phenol-d6	16		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	49		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	63		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

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: WG760370-2 WG760370-3								
Benzidine	45		38		10-75	17		30
1,2,4-Trichlorobenzene	57		59		39-98	3		30
Bis(2-chloroethyl)ether	56		61		40-140	9		30
1,2-Dichlorobenzene	50		54		40-140	8		30
1,3-Dichlorobenzene	48		53		40-140	10		30
1,4-Dichlorobenzene	49		53		36-97	8		30
3,3'-Dichlorobenzidine	81		87		40-140	7		30
2,4-Dinitrotoluene	86		91		24-96	6		30
2,6-Dinitrotoluene	86		92		40-140	7		30
Azobenzene	66		70		40-140	6		30
4-Chlorophenyl phenyl ether	72		77		40-140	7		30
4-Bromophenyl phenyl ether	77		83		40-140	8		30
Bis(2-chloroisopropyl)ether	47		52		40-140	10		30
Bis(2-chloroethoxy)methane	58		65		40-140	11		30
Hexachlorocyclopentadiene	**23**	Q	**24**	Q	40-140	4		30
Isophorone	63		70		40-140	11		30
Nitrobenzene	60		65		40-140	8		30
NDPA/DPA	74		79		40-140	7		30
Bis(2-ethylhexyl)phthalate	68		73		40-140	7		30
Butyl benzyl phthalate	75		79		40-140	5		30
Di-n-butylphthalate	72		77		40-140	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

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: WG760370-2 WG760370-3								
Di-n-octylphthalate	70		75		40-140	7		30
Diethyl phthalate	72		78		40-140	8		30
Dimethyl phthalate	72		77		40-140	7		30
Aniline	41		42		40-140	2		30
4-Chloroaniline	65		69		40-140	6		30
2-Nitroaniline	80		89		52-143	11		30
3-Nitroaniline	68		73		25-145	7		30
4-Nitroaniline	76		80		51-143	5		30
Dibenzofuran	71		74		40-140	4		30
n-Nitrosodimethylamine	25		29		22-74	15		30
2,4,6-Trichlorophenol	80		89		30-130	11		30
p-Chloro-m-cresol	69		76		23-97	10		30
2-Chlorophenol	57		62		27-123	8		30
2,4-Dichlorophenol	75		82		30-130	9		30
2,4-Dimethylphenol	63		71		30-130	12		30
2-Nitrophenol	73		84		30-130	14		30
4-Nitrophenol	30		30		10-80	0		30
2,4-Dinitrophenol	87		95		20-130	9		30
4,6-Dinitro-o-cresol	96		103		20-164	7		30
Phenol	22		25		12-110	13		30
2-Methylphenol	48		53		30-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

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: WG760370-2 WG760370-3								
3-Methylphenol/4-Methylphenol	43		49		30-130	13		30
2,4,5-Trichlorophenol	79		91		30-130	14		30
Benzoic Acid	18		20		10-164	11		30
Benzyl Alcohol	44		50		26-116	13		30
Carbazole	76		82		55-144	8		30
Pyridine	20		21		10-66	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	31		34		21-120
Phenol-d6	20		22		10-120
Nitrobenzene-d5	64		71		23-120
2-Fluorobiphenyl	71		79		15-120
2,4,6-Tribromophenol	88		94		10-120
4-Terphenyl-d14	84		89		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

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: WG760372-2 WG760372-3								
Acenaphthene	69		66		37-111	4		40
2-Chloronaphthalene	69		64		40-140	8		40
Fluoranthene	83		76		40-140	9		40
Hexachlorobutadiene	60		56		40-140	7		40
Naphthalene	67		62		40-140	8		40
Benzo(a)anthracene	86		79		40-140	8		40
Benzo(a)pyrene	80		73		40-140	9		40
Benzo(b)fluoranthene	85		76		40-140	11		40
Benzo(k)fluoranthene	81		74		40-140	9		40
Chrysene	80		73		40-140	9		40
Acenaphthylene	77		72		40-140	7		40
Anthracene	78		73		40-140	7		40
Benzo(ghi)perylene	81		73		40-140	10		40
Fluorene	76		74		40-140	3		40
Phenanthrene	74		69		40-140	7		40
Dibenzo(a,h)anthracene	84		76		40-140	10		40
Indeno(1,2,3-cd)Pyrene	85		78		40-140	9		40
Pyrene	80		75		26-127	6		40
1-Methylnaphthalene	69		67		40-140	3		40
2-Methylnaphthalene	73		67		40-140	9		40
Pentachlorophenol	82		75		9-103	9		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

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: WG760372-2 WG760372-3								
Hexachlorobenzene	79		73		40-140	8		40
Hexachloroethane	64		59		40-140	8		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	34		31		21-120
Phenol-d6	25		22		10-120
Nitrobenzene-d5	75		67		23-120
2-Fluorobiphenyl	69		63		15-120
2,4,6-Tribromophenol	89		85		10-120
4-Terphenyl-d14	78		73		41-149

PETROLEUM HYDROCARBONS

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID:	L1502164-01	Date Collected:	02/03/15 10:30
Client ID:	HA-A1 OW	Date Received:	02/03/15
Sample Location:		Field Prep:	Field Filtered (Metals)
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	02/05/15 15:16		
Analyst:	BS		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	104		70-130
2,5-Dibromotoluene-FID	105		70-130

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

SAMPLE RESULTS

Lab ID:	L1502164-01	Date Collected:	02/03/15 10:30
Client ID:	HA-A1 OW	Date Received:	02/03/15
Sample Location:		Field Prep:	Field Filtered (Metals)
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1	Extraction Date:	02/05/15 14:13
Analytical Date:	02/06/15 10:49	Cleanup Method1:	EPH-04-1
Analyst:	SR	Cleanup Date1:	02/05/15

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	51		40-140
o-Terphenyl	72		40-140
2-Fluorobiphenyl	71		40-140
2-Bromonaphthalene	72		40-140

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 98,EPH-04-1.1
Analytical Date: 02/06/15 09:15
Analyst: SR

Extraction Method: EPA 3510C
Extraction Date: 02/05/15 14:13
Cleanup Method: EPH-04-1
Cleanup Date: 02/05/15

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01 Batch: WG760854-1					
C9-C18 Aliphatics	ND		ug/l	100	--
C19-C36 Aliphatics	ND		ug/l	100	--
C11-C22 Aromatics	ND		ug/l	100	--
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	60		40-140
o-Terphenyl	79		40-140
2-Fluorobiphenyl	81		40-140
2-Bromonaphthalene	82		40-140

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 02/05/15 11:31
Analyst: BS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01 Batch: WG761089-3					
C5-C8 Aliphatics	ND		ug/l	50.0	--
C9-C12 Aliphatics	ND		ug/l	50.0	--
C9-C10 Aromatics	ND		ug/l	50.0	--
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	113		70-130
2,5-Dibromotoluene-FID	115		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG760854-2 WG760854-3								
C9-C18 Aliphatics	49		42		40-140	15		25
C19-C36 Aliphatics	62		62		40-140	0		25
C11-C22 Aromatics	70		82		40-140	16		25
Naphthalene	60		61		40-140	2		25
2-Methylnaphthalene	64		70		40-140	9		25
Acenaphthylene	58		68		40-140	16		25
Acenaphthene	65		75		40-140	14		25
Fluorene	67		79		40-140	16		25
Phenanthrene	69		83		40-140	18		25
Anthracene	72		92		40-140	24		25
Fluoranthene	71		86		40-140	19		25
Pyrene	72		87		40-140	19		25
Benzo(a)anthracene	68		82		40-140	19		25
Chrysene	73		88		40-140	19		25
Benzo(b)fluoranthene	70		84		40-140	18		25
Benzo(k)fluoranthene	71		85		40-140	18		25
Benzo(a)pyrene	67		82		40-140	20		25
Indeno(1,2,3-cd)Pyrene	57		68		40-140	18		25
Dibenzo(a,h)anthracene	67		80		40-140	18		25
Benzo(ghi)perylene	68		81		40-140	17		25
Nonane (C9)	43		**27**	Q	30-140	**46**	Q	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG760854-2 WG760854-3								
Decane (C10)	51		**33**	Q	40-140	**43**	Q	25
Dodecane (C12)	58		47		40-140	21		25
Tetradecane (C14)	60		56		40-140	7		25
Hexadecane (C16)	63		62		40-140	2		25
Octadecane (C18)	67		66		40-140	2		25
Nonadecane (C19)	66		66		40-140	0		25
Eicosane (C20)	68		68		40-140	0		25
Docosane (C22)	69		69		40-140	0		25
Tetracosane (C24)	70		70		40-140	0		25
Hexacosane (C26)	70		70		40-140	0		25
Octacosane (C28)	69		69		40-140	0		25
Triacontane (C30)	71		71		40-140	0		25
Hexatriacontane (C36)	71		70		40-140	1		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	57		60		40-140
o-Terphenyl	89		102		40-140
2-Fluorobiphenyl	66		79		40-140
2-Bromonaphthalene	67		82		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG761089-1 WG761089-2								
C5-C8 Aliphatics	98		93		70-130	5		25
C9-C12 Aliphatics	103		98		70-130	5		25
C9-C10 Aromatics	94		93		70-130	2		25
Benzene	92		91		70-130	1		25
Toluene	93		92		70-130	1		25
Ethylbenzene	98		96		70-130	2		25
p/m-Xylene	95		93		70-130	2		25
o-Xylene	94		92		70-130	2		25
Methyl tert butyl ether	94		96		70-130	2		25
Naphthalene	95		95		70-130	1		25
1,2,4-Trimethylbenzene	94		93		70-130	2		25
Pentane	100		94		70-130	5		25
2-Methylpentane	100		95		70-130	5		25
2,2,4-Trimethylpentane	99		94		70-130	5		25
n-Nonane	107		101		30-130	6		25
n-Decane	98		92		70-130	6		25
n-Butylcyclohexane	98		93		70-130	5		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01 Batch: WG761089-1 WG761089-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	100		98		70-130
2,5-Dibromotoluene-FID	102		99		70-130

PCBS

Project Name: 1350 BOYLSTON ST.
Lab Number: L1502164
Project Number: 39151-025
Report Date: 02/10/15

SAMPLE RESULTS

Lab ID:	L1502164-01	Date Collected:	02/03/15 10:30
Client ID:	HA-A1 OW	Date Received:	02/03/15
Sample Location:	Not Specified	Field Prep:	Field Filtered (Metals)
Matrix:	Water	Extraction Method:	EPA 608
Analytical Method:	5,608	Extraction Date:	02/04/15 16:30
Analytical Date:	02/05/15 14:35	Cleanup Method:	EPA 3665A
Analyst:	JW	Cleanup Date:	02/05/15
		Cleanup Method:	EPA 3660B
		Cleanup Date:	02/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	--	1	B
Aroclor 1221	ND		ug/l	0.250	--	1	B
Aroclor 1232	ND		ug/l	0.250	--	1	B
Aroclor 1242	ND		ug/l	0.250	--	1	B
Aroclor 1248	ND		ug/l	0.250	--	1	B
Aroclor 1254	ND		ug/l	0.250	--	1	B
Aroclor 1260	ND		ug/l	0.200	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,608
Analytical Date: 02/05/15 13:44
Analyst: JW

Extraction Method: EPA 608
Extraction Date: 02/04/15 16:30
Cleanup Method: EPA 3665A
Cleanup Date: 02/05/15
Cleanup Method: EPA 3660B
Cleanup Date: 02/05/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG760616-1						
Aroclor 1016	ND		ug/l	0.250	--	B
Aroclor 1221	ND		ug/l	0.250	--	B
Aroclor 1232	ND		ug/l	0.250	--	B
Aroclor 1242	ND		ug/l	0.250	--	B
Aroclor 1248	ND		ug/l	0.250	--	B
Aroclor 1254	ND		ug/l	0.250	--	B
Aroclor 1260	ND		ug/l	0.200	--	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	58		30-150	B

Matrix Spike Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760616-3 QC Sample: L1502164-01 Client ID: HA-A1 OW													
Aroclor 1016	ND	2	1.51	76		-	-		40-140	-		50	B
Aroclor 1260	ND	2	1.47	74		-	-		40-140	-		50	B

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61				30-150	B
Decachlorobiphenyl	68				30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG760616-2									
Aroclor 1016	78		-		40-140	-		50	B
Aroclor 1260	80		-		40-140	-		50	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63				30-150	B
Decachlorobiphenyl	73				30-150	B

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits	
Polychlorinated Biphenyls by GC - Westborough Lab OW	Associated sample(s): 01	QC Batch ID: WG760616-4		QC Sample: L1502164-01		Client ID: HA-A1	
Aroclor 1016	ND	ND	ug/l	NC		50	B
Aroclor 1221	ND	ND	ug/l	NC		50	B
Aroclor 1232	ND	ND	ug/l	NC		50	B
Aroclor 1242	ND	ND	ug/l	NC		50	B
Aroclor 1248	ND	ND	ug/l	NC		50	B
Aroclor 1254	ND	ND	ug/l	NC		50	B
Aroclor 1260	ND	ND	ug/l	NC		50	B

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		61		30-150	B
Decachlorobiphenyl	65		67		30-150	B

METALS

Project Name: 1350 BOYLSTON ST.
Lab Number: L1502164
Project Number: 39151-025
Report Date: 02/10/15

SAMPLE RESULTS

Lab ID: L1502164-01
Client ID: HA-A1 OW
Sample Location: Not Specified
Matrix: Water
Date Collected: 02/03/15 10:30
Date Received: 02/03/15
Field Prep: Field Filtered (Metals)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Antimony, Total	0.001		mg/l	0.0005	--	1	02/04/15 17:56	02/06/15 15:59	EPA 3005A	1,6020A	BM
Arsenic, Total	0.0017		mg/l	0.0005	--	1	02/04/15 17:56	02/06/15 15:59	EPA 3005A	1,6020A	BM
Cadmium, Total	0.0003		mg/l	0.0002	--	1	02/04/15 17:56	02/06/15 15:59	EPA 3005A	1,6020A	BM
Chromium, Total	ND		mg/l	0.0010	--	1	02/04/15 17:56	02/06/15 15:59	EPA 3005A	1,6020A	BM
Copper, Total	0.0040		mg/l	0.0010	--	1	02/04/15 17:56	02/06/15 15:59	EPA 3005A	1,6020A	BM
Iron, Total	0.92		mg/l	0.05	--	1	02/04/15 17:54	02/05/15 13:04	EPA 3005A	19,200.7	JH
Lead, Total	0.0017		mg/l	0.0005	--	1	02/04/15 17:56	02/06/15 15:59	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	--	1	02/05/15 10:39	02/06/15 14:42	EPA 245.1	3,245.1	AB
Nickel, Total	0.0030		mg/l	0.0005	--	1	02/04/15 17:56	02/06/15 15:59	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.005	--	1	02/04/15 17:56	02/06/15 15:59	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.0004	--	1	02/04/15 17:56	02/06/15 15:59	EPA 3005A	1,6020A	BM
Zinc, Total	0.0238		mg/l	0.0100	--	1	02/04/15 17:56	02/06/15 15:59	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Antimony, Dissolved	ND		mg/l	0.00200	--	1	02/06/15 14:47	02/10/15 12:58	NA	1,6020A	KL
Arsenic, Dissolved	0.00170		mg/l	0.00050	--	1	02/06/15 14:47	02/10/15 12:58	NA	1,6020A	KL
Cadmium, Dissolved	0.00026		mg/l	0.00020	--	1	02/06/15 14:47	02/10/15 12:58	NA	1,6020A	KL
Chromium, Dissolved	ND		mg/l	0.00100	--	1	02/06/15 14:47	02/10/15 12:58	NA	1,6020A	KL
Copper, Dissolved	0.00310		mg/l	0.00100	--	1	02/06/15 14:47	02/10/15 12:58	NA	1,6020A	KL
Iron, Dissolved	1.0		mg/l	0.050	--	1	02/06/15 14:46	02/06/15 16:17	EPA 3005A	1,6010C	JH
Lead, Dissolved	0.00147		mg/l	0.00050	--	1	02/06/15 14:47	02/10/15 12:58	NA	1,6020A	KL
Mercury, Dissolved	ND		mg/l	0.00020	--	1	02/05/15 12:26	02/06/15 10:52	EPA 7470A	1,7470A	AB
Nickel, Dissolved	0.00320		mg/l	0.00050	--	1	02/06/15 14:47	02/10/15 12:58	NA	1,6020A	KL
Selenium, Dissolved	ND		mg/l	0.00500	--	1	02/06/15 14:47	02/10/15 12:58	NA	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	--	1	02/06/15 14:47	02/10/15 12:58	NA	1,6020A	KL
Zinc, Dissolved	0.02343		mg/l	0.01000	--	1	02/06/15 14:47	02/10/15 12:58	NA	1,6020A	KL

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

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: WG760624-1										
Iron, Total	ND		mg/l	0.05	--	1	02/04/15 17:54	02/05/15 12:52	19,200.7	JH

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG760625-1										
Antimony, Total	ND		mg/l	0.0020	--	1	02/04/15 17:56	02/06/15 15:52	1,6020A	BM
Arsenic, Total	ND		mg/l	0.0005	--	1	02/04/15 17:56	02/06/15 15:52	1,6020A	BM
Cadmium, Total	ND		mg/l	0.0002	--	1	02/04/15 17:56	02/06/15 15:52	1,6020A	BM
Chromium, Total	ND		mg/l	0.0010	--	1	02/04/15 17:56	02/06/15 15:52	1,6020A	BM
Copper, Total	ND		mg/l	0.0010	--	1	02/04/15 17:56	02/06/15 15:52	1,6020A	BM
Lead, Total	ND		mg/l	0.0005	--	1	02/04/15 17:56	02/06/15 15:52	1,6020A	BM
Nickel, Total	ND		mg/l	0.0005	--	1	02/04/15 17:56	02/06/15 15:52	1,6020A	BM
Selenium, Total	ND		mg/l	0.005	--	1	02/04/15 17:56	02/06/15 15:52	1,6020A	BM
Silver, Total	ND		mg/l	0.0004	--	1	02/04/15 17:56	02/06/15 15:52	1,6020A	BM
Zinc, Total	ND		mg/l	0.0100	--	1	02/04/15 17:56	02/06/15 15:52	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG760763-1										
Mercury, Total	ND		mg/l	0.00020	--	1	02/05/15 10:39	02/06/15 13:58	3,245.1	AB

Prep Information

Digestion Method: EPA 245.1

Project Name: 1350 BOYLSTON ST. **Lab Number:** L1502164

Project Number: 39151-025 **Report Date:** 02/10/15

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: WG760807-1										
Mercury, Dissolved	ND		mg/l	0.00020	--	1	02/05/15 12:26	02/06/15 10:48	1,7470A	AB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG761169-1										
Antimony, Dissolved	ND		mg/l	0.00200	--	1	02/06/15 14:47	02/10/15 11:42	1,6020A	KL
Arsenic, Dissolved	ND		mg/l	0.00050	--	1	02/06/15 14:47	02/10/15 11:42	1,6020A	KL
Cadmium, Dissolved	ND		mg/l	0.00020	--	1	02/06/15 14:47	02/10/15 11:42	1,6020A	KL
Chromium, Dissolved	ND		mg/l	0.00100	--	1	02/06/15 14:47	02/10/15 11:42	1,6020A	KL
Copper, Dissolved	ND		mg/l	0.00100	--	1	02/06/15 14:47	02/10/15 11:42	1,6020A	KL
Lead, Dissolved	ND		mg/l	0.00050	--	1	02/06/15 14:47	02/10/15 11:42	1,6020A	KL
Nickel, Dissolved	ND		mg/l	0.00050	--	1	02/06/15 14:47	02/10/15 11:42	1,6020A	KL
Selenium, Dissolved	ND		mg/l	0.00500	--	1	02/06/15 14:47	02/10/15 11:42	1,6020A	KL
Silver, Dissolved	ND		mg/l	0.00040	--	1	02/06/15 14:47	02/10/15 11:42	1,6020A	KL
Zinc, Dissolved	ND		mg/l	0.01000	--	1	02/06/15 14:47	02/10/15 11:42	1,6020A	KL

Prep Information

Digestion Method: NA

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG761171-1										
Iron, Dissolved	ND		mg/l	0.050	--	1	02/06/15 14:46	02/06/15 15:49	1,6010C	JH

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG760624-2								
Iron, Total	98		-		85-115	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG760625-2								
Antimony, Total	90		-		80-120	-		
Arsenic, Total	94		-		80-120	-		
Cadmium, Total	97		-		80-120	-		
Chromium, Total	82		-		80-120	-		
Copper, Total	93		-		80-120	-		
Lead, Total	99		-		80-120	-		
Nickel, Total	87		-		80-120	-		
Selenium, Total	97		-		80-120	-		
Silver, Total	94		-		80-120	-		
Zinc, Total	96		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG760763-2								
Mercury, Total	114		-		85-115	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG760807-2								
Mercury, Dissolved	101		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG761169-2					
Antimony, Dissolved	106	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Cadmium, Dissolved	117	-	80-120	-	
Chromium, Dissolved	93	-	80-120	-	
Copper, Dissolved	100	-	80-120	-	
Lead, Dissolved	108	-	80-120	-	
Nickel, Dissolved	100	-	80-120	-	
Selenium, Dissolved	119	-	80-120	-	
Silver, Dissolved	99	-	80-120	-	
Zinc, Dissolved	106	-	80-120	-	
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG761171-2					
Iron, Dissolved	110	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760624-4 QC Sample: L1502164-01 Client ID: HA-A1 OW												
Iron, Total	0.92	1	1.8	88		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760625-4 QC Sample: L1502164-01 Client ID: HA-A1 OW												
Antimony, Total	0.001	0.5	0.4867	97		-	-		75-125	-		20
Arsenic, Total	0.0017	0.12	0.1235	102		-	-		75-125	-		20
Cadmium, Total	0.0003	0.051	0.0561	109		-	-		75-125	-		20
Chromium, Total	ND	0.2	0.1758	88		-	-		75-125	-		20
Copper, Total	0.0040	0.25	0.2455	97		-	-		75-125	-		20
Lead, Total	0.0017	0.51	0.5263	103		-	-		75-125	-		20
Nickel, Total	0.0030	0.5	0.4704	93		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.111	92		-	-		75-125	-		20
Silver, Total	ND	0.05	0.0476	95		-	-		75-125	-		20
Zinc, Total	0.0238	0.5	0.5136	98		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760763-4 QC Sample: L1502117-09 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00128	**26**	Q	-	-		70-130	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760807-4 QC Sample: L1502164-01 Client ID: HA-A1 OW												
Mercury, Dissolved	ND	0.005	0.00479	96		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

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: WG761169-4 QC Sample: L1502164-01 Client ID: HA-A1 OW										
Antimony, Dissolved	ND	0.5	0.5484	109		-	-	75-125	-	20
Arsenic, Dissolved	0.00170	0.12	0.1458	120		-	-	75-125	-	20
Cadmium, Dissolved	0.00026	0.051	0.06357	124		-	-	75-125	-	20
Chromium, Dissolved	ND	0.2	0.2203	110		-	-	75-125	-	20
Copper, Dissolved	0.00310	0.25	0.2849	113		-	-	75-125	-	20
Lead, Dissolved	0.00147	0.51	0.6001	117		-	-	75-125	-	20
Nickel, Dissolved	0.00320	0.5	0.5488	109		-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.151	**126**	Q	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.04929	98		-	-	75-125	-	20
Zinc, Dissolved	0.02343	0.5	0.5944	114		-	-	75-125	-	20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG761171-4 QC Sample: L1502164-01 Client ID: HA-A1 OW										
Iron, Dissolved	1.0	1	2.1	110		-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760624-3 QC Sample: L1502164-01 Client ID: HA-A1 OW						
Iron, Total	0.92	0.96	mg/l	4		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760625-3 QC Sample: L1502164-01 Client ID: HA-A1 OW						
Antimony, Total	0.001	0.0010	mg/l	4		20
Arsenic, Total	0.0017	0.0020	mg/l	14		20
Cadmium, Total	0.0003	0.0002	mg/l	**35**	Q	20
Chromium, Total	ND	ND	mg/l	NC		20
Copper, Total	0.0040	0.0042	mg/l	6		20
Lead, Total	0.0017	0.0018	mg/l	7		20
Nickel, Total	0.0030	0.0030	mg/l	2		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.0238	0.0231	mg/l	3		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760763-3 QC Sample: L1502117-09 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760807-3 QC Sample: L1502164-01 Client ID: HA-A1 OW						
Mercury, Dissolved	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG761169-3 QC Sample: L1502164-01 Client ID: HA-A1 OW					
Antimony, Dissolved	ND	ND	mg/l	NC	20
Arsenic, Dissolved	0.00170	0.00165	mg/l	3	20
Cadmium, Dissolved	0.00026	ND	mg/l	NC	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	0.00310	0.00349	mg/l	12	20
Lead, Dissolved	0.00147	0.00147	mg/l	1	20
Nickel, Dissolved	0.00320	0.00377	mg/l	16	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	0.02343	0.02558	mg/l	9	20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG761171-3 QC Sample: L1502164-01 Client ID: HA-A1 OW					
Iron, Dissolved	1.0	1.1	mg/l	10	20

INORGANICS
&
MISCELLANEOUS

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

SAMPLE RESULTS

Lab ID: L1502164-01
Client ID: HA-A1 OW
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/03/15 10:30
Date Received: 02/03/15
Field Prep: Field Filtered (Metals)

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	02/04/15 12:30	30,2540D	DW
Cyanide, Total	ND		mg/l	0.005	--	1	02/04/15 15:35	02/05/15 11:29	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	02/03/15 23:05	30,4500CL-D	LH
TPH	ND		mg/l	4.00	--	1	02/04/15 07:30	02/04/15 14:15	74,1664A	ML
Phenolics, Total	ND		mg/l	0.030	--	1	02/04/15 10:15	02/04/15 12:46	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	02/03/15 23:30	02/03/15 23:52	30,3500CR-B	LH
Anions by Ion Chromatography - Westborough Lab										
Chloride	815.		mg/l	25.0	--	50	-	02/04/15 20:02	44,300.0	AU

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025
Lab Number: L1502164
Report Date: 02/10/15

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: WG760360-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	02/03/15 23:05	30,4500CL-D	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG760361-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	02/03/15 23:30	02/03/15 23:51	30,3500CR-B	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG760411-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	02/04/15 12:30	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG760415-1										
TPH	ND		mg/l	4.00	--	1	02/04/15 07:30	02/04/15 14:15	74,1664A	ML
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG760450-1										
Phenolics, Total	ND		mg/l	0.030	--	1	02/04/15 10:15	02/04/15 12:45	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG760540-1										
Cyanide, Total	ND		mg/l	0.005	--	1	02/04/15 15:35	02/05/15 11:22	30,4500CN-CE	JO
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG760682-1										
Chloride	ND		mg/l	0.500	--	1	-	02/04/15 19:38	44,300.0	AU

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1350 BOYLSTON ST.

Project Number: 39151-025

Lab Number: L1502164

Report Date: 02/10/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG760360-2								
Chlorine, Total Residual	105		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG760361-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG760415-2								
TPH	80		-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG760450-2								
Phenolics, Total	88		-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG760540-2								
Cyanide, Total	109		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG760682-2								
Chloride	104		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

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: WG760361-4 QC Sample: L1502164-01 Client ID: HA-A1 OW												
Chromium, Hexavalent	ND	0.1	0.101	101		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760415-3 QC Sample: L1502164-01 Client ID: HA-A1 OW												
TPH	ND	20.4	17.0	83		-	-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760450-4 QC Sample: L1502164-01 Client ID: HA-A1 OW												
Phenolics, Total	ND	0.4	0.38	96		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760540-3 QC Sample: L1502164-01 Client ID: HA-A1 OW												
Cyanide, Total	ND	0.2	0.198	99		-	-		90-110	-		30
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760682-3 QC Sample: L1502065-01 Client ID: MS Sample												
Chloride	119	20	142	112		-	-		40-151	-		18

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760361-3 QC Sample: L1502164-01 Client ID: HA-A1 OW						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760411-2 QC Sample: L1502166-01 Client ID: DUP Sample						
Solids, Total Suspended	910	910	mg/l	0		29
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760450-3 QC Sample: L1502164-01 Client ID: HA-A1 OW						
Phenolics, Total	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760540-4 QC Sample: L1502150-01 Client ID: DUP Sample						
Cyanide, Total	0.026	0.026	mg/l	3		30
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG760682-4 QC Sample: L1502065-01 Client ID: DUP Sample						
Chloride	119	119	mg/l	0		18

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

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(*)
L1502164-01A	Vial Na2S2O3 preserved	A	N/A	5.3	Y	Absent	504(14)
L1502164-01B	Vial Na2S2O3 preserved	A	N/A	5.3	Y	Absent	504(14)
L1502164-01C	Vial HCl preserved	A	N/A	5.3	Y	Absent	8260-SIM(14),8260(14)
L1502164-01D	Vial HCl preserved	A	N/A	5.3	Y	Absent	8260-SIM(14),8260(14)
L1502164-01E	Vial HCl preserved	A	N/A	5.3	Y	Absent	8260-SIM(14),8260(14)
L1502164-01I	Vial HCl preserved	A	N/A	5.3	Y	Absent	VPH-10(14)
L1502164-01J	Vial HCl preserved	A	N/A	5.3	Y	Absent	VPH-10(14)
L1502164-01K	Vial HCl preserved	A	N/A	5.3	Y	Absent	VPH-10(14)
L1502164-01L	Plastic 250ml HNO3 preserved	A	<2	5.3	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)
L1502164-01M	Plastic 250ml HNO3 preserved	A	<2	5.3	Y	Absent	CU-6020S(180),SE-6020S(180),FE-SI(180),ZN-6020S(180),CR-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),CD-6020S(180),HG-S(28)
L1502164-01N	Plastic 250ml NaOH preserved	A	>12	5.3	Y	Absent	TCN-4500(14)
L1502164-01O	Plastic 500ml unpreserved	A	7	5.3	Y	Absent	CL-300(28),HEXCR-3500(1),TRC-4500(1)
L1502164-01O1	Plastic 500ml unpreserved	A	7	5.3	Y	Absent	TRC-4500(1)
L1502164-01P	Plastic 950ml unpreserved	A	7	5.3	Y	Absent	TSS-2540(7)
L1502164-01Q	Amber 500ml H2SO4 preserved	A	<2	5.3	Y	Absent	TPHENOL-420(28)
L1502164-01R	Amber 1000ml HCl preserved	A	N/A	5.3	Y	Absent	TPH-1664(28)
L1502164-01S	Amber 1000ml HCl preserved	A	N/A	5.3	Y	Absent	TPH-1664(28)
L1502164-01T	Amber 1000ml unpreserved	A	7	5.3	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1502164-01T1	Amber 1000ml unpreserved	A	7	5.3	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1502164-01U	Amber 1000ml unpreserved	A	7	5.3	Y	Absent	8270TCL(7),8270TCL-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: 1350 BOYLSTON ST.
Project Number: 39151-025

Lab Number: L1502164
Report Date: 02/10/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1502164-01U1	Amber 1000ml unpreserved	A	7	5.3	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1502164-01V	Amber 1000ml HCl preserved	A	<2	5.3	Y	Absent	EPH-10(14)
L1502164-01W	Amber 1000ml HCl preserved	A	<2	5.3	Y	Absent	EPH-10(14)
L1502164-01Y	Amber 1000ml Na2S2O3	A	7	5.3	Y	Absent	PCB-608(7)
L1502164-01Z	Amber 1000ml Na2S2O3	A	7	5.3	Y	Absent	PCB-608(7)

Container Comments

L1502164-01M

*Values in parentheses indicate holding time in days

Project Name:	1350 BOYLSTON ST.	**Lab Number:**	L1502164
Project Number:	39151-025	**Report Date:**	02/10/15

GLOSSARY

Acronyms

EDL - Estimated 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 EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

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

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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 ten times (10x) 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. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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.

Report Format: Data Usability Report

Project Name:	1350 BOYLSTON ST.	**Lab Number:**	L1502164
Project Number:	39151-025	**Report Date:**	02/10/15

Data Qualifiers

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 lower value for the two columns 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.

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.

S - Analytical results are from modified screening analysis.

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:	1350 BOYLSTON ST.	**Lab Number:**	L1502164
Project Number:	39151-025	**Report Date:**	02/10/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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.

98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.

100 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, July 2010.

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.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: 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
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

COC edits by Gina Hall 2/4/15

Serial_No:02101517:34

HALEY & ALDRICH

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

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

CHAIN OF CUSTODY RECORD L1502164

Page 1 of 1

H&A FILE NO.	39151-025	LABORATORY	Alpha Analytical	DELIVERY DATE	2-3-15
PROJECT NAME	1350 Boylston St	ADDRESS	Westborough, MA	TURNAROUND TIME	STANDARD
H&A CONTACT	C. McKenzie	CONTACT	Don Stone	PROJECT MANAGER	M. Bilke

Sample No.	Date	Time	Depth	Type	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
HA-A1 OW	2-3-15	1030	GW	AQ	X	X	X	X	X	X	X	X	X	X	X	X	25	Laboratory to use applicable DEP CAM methods, unless otherwise directed.

Analysis Requested (printed headers, overwritten): VOA, ABNs PAHs only, MCP Metals, Pesticides PCBs, VPH Fractions/Targets only, EPH Fractions/Targets only, TPH (specify), TCLP (specify), Reactivity Ignitability Corrosivity

Comments:
① 504
② VPH
③ 8260
④ PCBs-608
⑤ 8270
⑥ 8270(SIM)
⑦ EPH
⑧ TPH-1664
⑨ Total Phenol
⑩ Total RGP Metals
⑪ TCN
⑫ Dissolved RGP Metals (CFF)

Sampled and Relinquished by	Received by
Sign [signature]	Sign M. Aysh
Print Dwight Warren	Print M Aysh
Firm H&A	Firm H&A
Date 2-3-15 Time	Date 2/3/15 Time 16:30
Relinquished by	**Received by**
Sign M. Aysh	Sign [signature]
Print M Aysh	Print Wayne Plummer
Firm H&A	Firm Alpha
Date 2/3/15 Time 16:30	Date 2/3/15 Time 1720
Relinquished by	**Received by**
Sign [signature]	Sign William McLendon
Print Wayne Plummer	Print William McLendon
Firm Alpha	Firm Alpha
Date 2/3/15 Time 1930	Date 2/3/15 Time 1930

LIQUID 25 TOTAL

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫
VOA Vial	X →	→										
Amber Glass				X →	→	→	→	→				
Plastic Bottle										X	—	
Preservative	A,G	A,F →		A,G	A →		A,F	A,F	A,E	A,D	A,C	A,D,B
Volume	40ml →			1L →				→	500 ml	250 ml →		

SOLID

VOA Vial	
Amber Glass	
Clear Glass	
Preservative	
Volume	

Sampling Comments

⑬ TSS, Pl. 950 ml Non Pres.
⑭ } Cl, TRC, HexCr
⑮ } Plastic 500 ml, Non Pres.

8260 also needs 8260-SIM

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G ~~Methanol~~ $Na_2S_2O_3$
B Sample filtered	D HNO_3	F HCL	H 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
- ☐ RC-S2
- ☐ RC-GW1
- ☐ RC-GW2
- ☐ S1
- ☐ S2
- ☐ S3
- ☒ GW1
- ☐ GW2
- ☐ GW3

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

AUGUST 2008

Form 3003

HALEY & ALDRICH

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

CHAIN OF CUSTODY RECORD L1502164

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

Page 1 of 1

H&A FILE NO.	39151-025	LABORATORY	Alpha Analytical	DELIVERY DATE	2-3-15
PROJECT NAME	1350 Boylston St	ADDRESS	Westborough, MA	TURNAROUND TIME	STANDARD
H&A CONTACT	C. McKenzie	CONTACT	Doug Stone	PROJECT MANAGER	M. Burke

Sample No.	Date	Time	Depth	Type	① VOA	② PAHs only	③ MCP Metals	④ Pesticides PCBs	⑤ VPH Fractions only	⑥ EPH Fractions only	⑦ TPH (specify)	⑧ TCLP (specify)	⑨ Reactivity Ignitability Corrosivity	⑩	⑪	⑫	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
HA-A1 OW	2-3-15	1030	GW	AQ	X	X	X	X	X	X	X	X	X	X	X	X	25	Laboratory to use applicable DEP CAM methods, unless otherwise directed. ① 504 ② VPH ③ 8260 ④ PCBs-608 ⑤ 8270 ⑥ 8270 (SIM) ⑦ EPH ⑧ TPH-1664 ⑨ Total Phenol ⑩ Total RGP Metals ⑪ TCN ⑫ Dissolved RGP Metals (FF)

Sampled and Relinquished by	Received by
Sign [signature]	Sign M. Aytsh
Print Dwight Warren	Print M Aysh
Firm H&A	Firm H&A
Date 2-3-15 Time	Date 2/3/15 Time 1630

Relinquished by	Received by
Sign M. Aytsh	Sign [signature]
Print M Aysh	Print Wayne Plummer
Firm H&A	Firm Alpha
Date 2/3/15 Time 1630	Date 2/3/15 Time 1720

Relinquished by	Received by
Sign [signature]	Sign William McClendon
Print Wayne Plummer	Print William McClendon
Firm Alpha	Firm Alpha
Date 2/3/15 Time 1930	Date 2/3/15 Time 1930

LIQUID 25 TOTAL

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	
VOA Vial	X →												
Amber Glass				X →									
Plastic Bottle										X —			
Preservative	AG	A,F →		A,G	A →		A,F	A,F	A,E	A,D	A,C	A,D,B	
Volume	40ml →			1L →					500 ml	250 ml →			

SOLID

VOA Vial	
Amber Glass	
Clear Glass	
Preservative	
Volume	

Sampling Comments

⑬ TSS, Pl. 950 ml Non Pres.
⑭ } Cl, TRC, HexCr
⑮ } Plastic 500 ml, Non Pres.

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

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A Sample chilled	C NaOH	E H_2SO_4	G ~~Methanol~~ $Na_2S_2O_3$
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Required Reporting Limits and Data Quality Objectives

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

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

AUGUST 2008

Form 3003