



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

**5 Post Office Square, Suite 100
BOSTON, MA 02109-3912**

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

JUL 24 2015

Mr. Ryan McCourt, Manager
McCourt Construction
60 K Street
Boston, MA 02127

Re: Authorization to discharge under the Remediation General Permit (RGP) – for the Station 99/5 Seafood Way site located in South Boston, Massachusetts; Authorization # MAG910687

Dear Mr. McCourt:

Based on the review of a Notice of Intent (NOI) that was submitted on your behalf by Michael Martin of Tighe and Bond for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at this site. Your authorization number is listed above.

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

Please note the enclosed checklist includes parameters that exceeded Appendix III limits. The checklist also includes other parameters for which your laboratory reports indicated there was insufficient sensitivity to detect these parameters at the minimum levels (ML) established in Appendix VI of the RGP. Pursuant to Part I, Section C.7., of the RGP, dilution factors may be available for discharges to saline waters but only with approval of the flow modeling information from the State prior to the submission of the NOI. Based on the study you cited, you estimated a dilution factor of 5 that would be available to the flow from this proposed treatment system. Therefore, this dilution factor will be used to calculate the metals limits for this RGP.

Therefore, the following limits will apply to the effluent of this treatment system:

Total Suspended Solids - 30 mg/l, Total Residual Chlorine – 7.5 ug/l, Cyanide - 1.0 ug/l, Naphthalene - 20 ug/l; Total Group I Polycyclic Aromatic Hydrocarbons (PAHs) - 10 ug/l, Total Group II PAHs – 100 ug/l, Arsenic - 180 ug/l, Copper - 18.5 ug/l, Lead – 42.5 ug/l, Mercury – 5.5 ug/l, Nickel - 41 ug/l, Iron - 5,000 ug/L, and pH range of 6.5 – 8.5 standard units (s.u.). Monitoring for acetone and chloride shall be conducted with no effluent limit.

This EPA general permit and authorization to discharge will expire on September 9, 2015. You have reported this project will terminate on December 31, 2015. Please be aware you are required to reapply for coverage after the EPA expired permit has been reissued. The reissuance date as well as the reapplication submittal date will be posted on the EPA web site at that time. Regardless of your project termination date, you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within thirty (30) days of the termination of the discharge.

Thank you in advance for your cooperation in this matter. Please contact George Papadopoulos at (617) 918-1579 or Papadopoulos.George@epa.gov, if you have any questions.

Sincerely,



Thelma Murphy, Chief
Storm Water and Construction Permits Section

Enclosure

cc: Michael Martin, Tighe and Bond
Michael Zylich, Eversource Energy
Robert Kubit, MassDEP
Stephen Shea, BWSC

**2010 Remediation General Permit
Summary of Monitoring Parameters^[1]**

NPDES Authorization Number:	MAG910687
Authorization Issued:	July 23, 2015
Facility/Site Name:	Station 99 – Eversource Energy
Facility/Site Address:	5 Seafood Way, South Boston, MA 02210
	Email address of owner: michael.zylich@eversource.com
Legal Name of Operator:	McCourt Construction
Operator contact name, title, and Address:	Ryan McCourt, Manager
	Email: rymccourt@mccourtconstruction.com
Estimated date of The Project Completion:	December 31, 2015
Category and Sub-Category:	Contaminated Construction Dewatering Category– General Urban Fill Sites Subcategory
RGP Termination Date:	September 2015
Receiving Water:	Boston Inner Harbor

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

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (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) **, 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/ ML 2ug/L
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) ⁴	100 ug/L/ Me#8260C/ ML 2ug/L

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	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
✓	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,

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	(PAH)	
✓	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) Pyrene⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/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/ML 5ug/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 Parameters	Total Recoverable Metal Limit H¹⁰ = 50 mg/l CaCO₃, Units = ug/l	Minimum level=ML¹¹
		Saltwater Limits	
	39. Antimony	5.6	10
✓	40. Arsenic **	180	20
	41. Cadmium **	8.9	10
	42. Chromium III (trivalent) **	100	15
	43. Chromium VI (hexavalent) **	50.3	10
✓	44. Copper **	18.5	15
✓	45. Lead **	42.5	20
✓	46. Mercury **	5.5	0.2
✓	47. Nickel **	41	20
	48. Selenium **	71	20
	49. Silver	2.2	10
	50. Zinc **	85.6	15
✓	51. Iron	5,000	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 ¹²
✓	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.5; 1/Month/Grab ¹²
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab ¹²
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab ¹³
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab ¹³
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab ¹³
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab ¹³
	61. Maximum Change in Temperature in MA - Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab ¹³
	62. Maximum Change in Temperature in MA - Any Class SA water body - Coastal	1.5°F; 1/Month/Grab ¹³
	63. Maximum Change in Temperature in MA - Any Class SB water body - July to September	1.5°F; 1/Month/Grab ¹³
	64. Maximum Change in Temperature in MA -Any Class SB water body - October to June	4°F; 1/Month/Grab ¹³

Footnotes:

¹ Although the maximum values for TRC are 11 ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).

² Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.

³ Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).

⁴ BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.

⁵ Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.

⁶ The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁷ Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

⁸ In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁹Although 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 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).

¹² pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.

¹³ Temperature sampling per Method 170.1

N-1023-36
June 22, 2015



Mr. Victor Alvarez
United States Environmental Protection Agency – Region 1
1 Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

Re: **Revised Submittal of Notice of Intent (NOI)**
Construction Dewatering
99 Seafood Way
South Boston, Massachusetts

Dear Mr. Alvarez:

On behalf of NSTAR Electric Company d/b/a Eversource Energy (Eversource), Tighe & Bond, Inc. has prepared this Notice of Intent (NOI) for application of a National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) for proposed construction dewatering activities at 5 Seafood Way, South Boston, Massachusetts (the "Site"), which is shown on the Locus Plan (Figure 1) and Aerial Dewatering Site Plan (Figure 3) in Appendix B.

As there is a need to treat and discharge water generated from the construction dewatering activities, the enclosed NOI form provides required information on the general site conditions, proposed treatment system, discharge location and receiving water, and analytical results for the proposed dewatering, treatment and discharge activities, which are shown on Figure 5 (Process Flow Diagram). The excavation, dewatering, and discharge of treated water are scheduled to begin July 1, 2015 and conclude December 31, 2015. Discharge of treated groundwater to a City of Boston storm drain is expected to be done periodically over a period of approximately 6 months in duration.

Site Background

Station 99 currently consists of a vacant lot, located in a mixed industrial and commercial setting. The majority of the Site is paved with asphalt, with the southern portion consisting of a grassy area. According to historical aerial photographs, the Site was historically open water that was filled to accommodate piers and berthing space for cargo and fishing vessels. To support the Central Artery/Tunnel (CA/T) Project, the Site was filled beginning in the early 1980s, to accommodate the new Interstate 90 tunnel and associated infrastructure, including the tunnel vent building that abuts the Site to the West. During the CA/T Project, the Site was used as the Materials Processing Operation (MPO), and a soils management construction staging and dewatering area.

According to the Massachusetts Department of Environmental Protection (MassDEP), Bureau of Waste Site Cleanup (BWSC), no Release Tracking Numbers (RTNs) have been issued for the Site.

Project Background

The Site is slated for redevelopment into an Eversource electric substation. In order to construct the foundation pilings and electrical equipment foundations and manholes associated with the new substation, soil will be excavated below the water table. Initial activities at the Site have indicated that the depth to groundwater at the Site ranges from



approximately 10 to 12 feet below ground surface. It is expected that the excavated area will need to be dewatered at a maximum dewatering rate of 100 gallons per minute. Groundwater will be treated onsite before being discharged to an on-site catch basin and into the storm drain system managed by the City of Boston Economic Development and Industrial Corporation (EDIC). The subject catch basin eventually discharges to Boston Inner Harbor.

Receiving Waters

The Boston Inner Harbor abuts the site to the West. There is a network of storm drains managed by the City of Boston EDIC that drain the surface water runoff from the site and surrounding area that discharge via subsurface pipes north to the Boston Inner Harbor, which lies approximately 915 feet north of the Site refer to Figure 3.

According to the *Boston Harbor: Estimates of Loadings*, prepared by Menzie-Cura & Associates, Inc. and dated February, 1991, the total flow for Boston Harbor (North Harbor – Charles River) was calculated to be 12.03 m³/second (426 ft³/second).

Groundwater encountered during construction excavation will be treated through a temporary on-Site treatment system and discharged to a stormwater catch basin which outfalls into Boston Inner Harbor. This section of the Boston Inner Harbor is classified as a stressed water body and is listed in the 303d Impaired Waterbodies document.

As required, a dewatering discharge permit will be obtained from the City of Boston EDIC prior to the commencement of discharge.

Treatment System

During the excavation, groundwater will be pumped to an on-site treatment system consisting of one 10,000-gallon fractionation tank, two 100 gpm, 1 micron bag filter units, two 1,500 granular activated carbon filters and one cation exchanger. The maximum flow is estimated to be 100 gallons per minute (gpm). A Notice of Termination will be sent to U.S.EPA when the excavation is complete and treated water is no longer being discharged. The Process Flow Diagram (Figure 4) is included in Appendix B.

Notice of Intent

Preparation of this NOI has included a review of the literature pertaining to the Areas of Critical Environmental concern (ACEC), Endangered Species Act (ESA), and the National Historic Preservation Act (NHPA), as documented below:

- Review of Appendix I “Areas of Critical Environmental Concern” (June 2009) found that the Site does not discharge to an ACEC.
- Review of the “Federally Listed Endangered and Threatened Species in Massachusetts” (Appendix C) found that there are three listed species in Suffolk County. Two species are coastal (piping plover and red knot) and the third, the Northern Long-Eared Bat, prefers mines and caves in winter and forested habitats in the summer. The piping plover are located on the beaches of Revere and Winthrop. The Red Knot prefers coastal beaches and rocky shores, sand and mud flats. The project area consists of a rip rap slope along a major shipping channel. Additionally, the MassGIS Priority Resource Map indicated that no NHESP Priority Habitats for Rare Species or Estimated Habitats for Rare Wildlife were present within half a mile

downstream of the discharge location. According to the U.S. Fish and Wildlife Service, there is no suitable habitat for either species within the project area. Therefore, permit eligibility meets "Criterion A."

- Review of the Massachusetts Geographic Information Systems (MassGIS) Priority Resource Map of shows that there are no ACECs and no habitats of Species of Special Concern or Threatened or Endangered Species within 500 feet of the subject site.
- As shown on the map generated by the MassGIS online viewer (Figure 2), no ACECs or Estimated Habitats of Rare Wildlife areas are located within half a mile downstream of the discharge location.
- Based on a review of the Massachusetts Cultural Resource Information System database, no historical places were located in the vicinity of the project area (Appendix D). Therefore, permit eligibility meets "Criterion 2."
- Laboratory analytical results shown in Part 3 of Appendix A. Groundwater was tested on May 8, 2015 and May 19, 2015. Laboratory analytical indicated the following RGP Effluent exceedances:
 - o Benzo(a)anthracene was detected in MW-2 at a concentrations of 0.075 micrograms per liter ($\mu\text{g/L}$) and 0.068 $\mu\text{g/L}$;
 - The concentration of the total polycyclic aromatic hydrocarbons (PAHs) for Group I was below the effluent limit of 10 $\mu\text{g/L}$;
 - o Naphthalene was detected in MW-2 at a concentration of 26 $\mu\text{g/L}$ and 23 $\mu\text{g/L}$;
 - The concentration of the total PAHs for Group II was below the effluent limit of 100 $\mu\text{g/L}$;
 - o Copper was detected in MW-1 and MW-2 at concentrations of 26 $\mu\text{g/L}$ and 63 $\mu\text{g/L}$, and 43 $\mu\text{g/L}$ and 71 $\mu\text{g/L}$, respectively;
 - o Iron was detected in MW-1 and MW-2 at concentrations of 7,000 $\mu\text{g/L}$, and 7,700 $\mu\text{g/L}$ and 19,000 $\mu\text{g/L}$, respectively;
 - o Lead was detected in MW-2 at a concentration of 110 $\mu\text{g/L}$;
 - o Nickel was detected in MW-1 and MW-2 at concentrations of 15 $\mu\text{g/L}$, and 240 $\mu\text{g/L}$ and 210 $\mu\text{g/L}$, respectively;
 - o Selenium was detected in MW-1 at a concentration of 75 $\mu\text{g/L}$ and 61 $\mu\text{g/L}$;
 - o Total cyanide was detected in MW-2 at a concentration of 110 $\mu\text{g/L}$ and 150 $\mu\text{g/L}$;
 - o Phenols were detected in MW-2 at a concentration of 4,200 $\mu\text{g/L}$ and 3,600 $\mu\text{g/L}$;
 - o Total Suspended Solids (TSS) were detected in MW-1 and MW-2 at concentrations of 180 $\mu\text{g/L}$, and 350 $\mu\text{g/L}$ and 140 $\mu\text{g/L}$, respectively.

Based on the proposed discharge rate of up to 750 gpm (1.7 $\text{ft}^3/\text{second}$) and Boston Harbor volumetric flow rate of 426 $\text{ft}^3/\text{second}$, a dilution factor of 5 was established for the permit. Based on the dilution factor, the concentrations of copper, iron, lead and nickel exceed the RGP Effluent limits. Based on the breakthrough analysis (Appendix E), the proposed treatment system will reduce the metal, phenols, cyanide, naphthalene and benzo(a)anthracene to below the RGP effluent limits. Prior to discharge of treated effluent to the storm drain, a post treatment sample will be collected and submitted to a Massachusetts environmental laboratory for copper, iron, lead, nickel, cyanide, phenols and

PAHs analyses to confirm the treatment was successful. Copies of the laboratory analytical reports and groundwater summary table are included in Appendix F.

If you need any additional information or assistance on this project, please do not hesitate to contact Michael E. Martin at (508) 304-6355 at your convenience.

Very truly yours,

TIGHE & BOND, INC.



Michael E. Martin
Project Manager



Paul G. Beaulieu, LSP
Associate

Enclosures

Copy: Michael Zylich, Eversource
MassDEP, Division of Watershed Management
MassDEP, Boston
Trevor McCourt, McCourt Construction

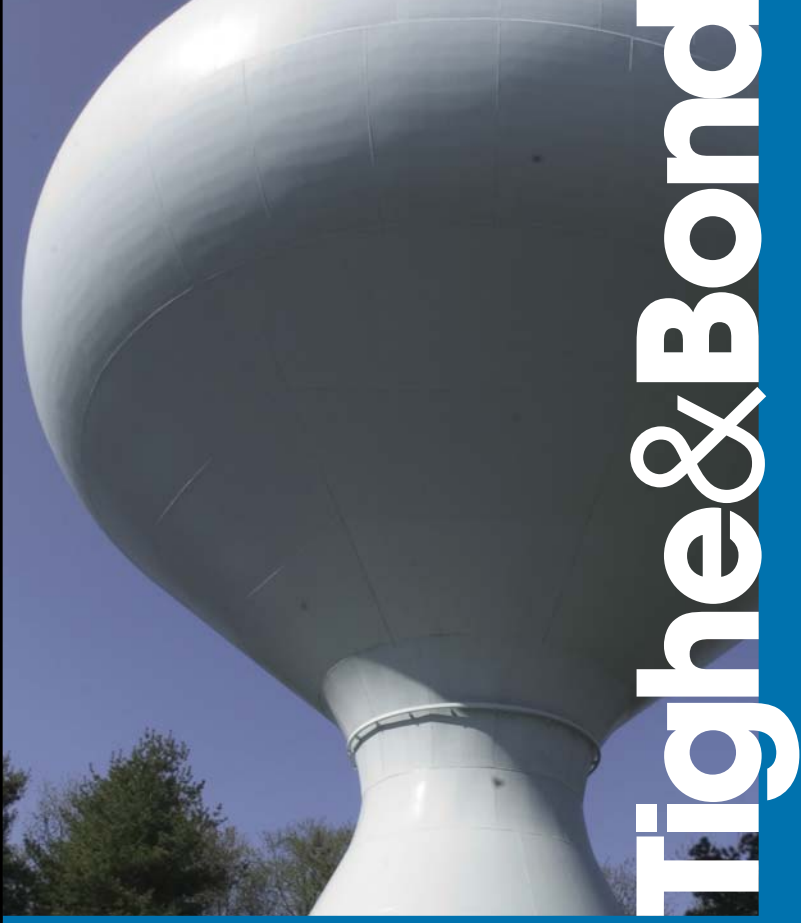
J:\N\N1023 NSTAR LSP Oncall Services\Station 99\RGP\RGP NOI Cover Lette.Doc

List of Appendices

Appendix A	Notice of Intent
Appendix B	Figures
Appendix C	Federally Endangered Species in Massachusetts
Appendix D	Massachusetts Cultural Resources Information System Report
Appendix E	Breakthrough Analysis
Appendix F	Laboratory Analytical Results
Appendix G	MassDEP Transmittal Form (Transmittal No. X266077)

List of Figures

Figure 1	Site Locus Map
Figure 2	MassDEP Priority Resource Map
Figure 3	Aerial Dewatering Site Plan
Figure 4	Process Flow Diagram



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 : Station 99		Facility/site mailing address:	
Location of facility/site : longitude: 42.347946 latitude: -71.032981	Facility SIC code(s): 0	Street: 5 Seafood Way	
b) Name of facility/site owner : Eversource Energy		Town: South Boston	
Email address of facility/site owner : Michael.Zylich@eversource.com	State: MA	Zip: 02210	County: Suffolk
Telephone no. of facility/site owner : 781-441-3804	Owner is (check one): 1. Federal ☐ 2. State/Tribal ☐ 3. Private ☒ 4. Other ☐ if so, describe:		
Fax no. of facility/site owner :			
Address of owner (if different from site):			
Street: One NSTAR Way			
Town: Westwood	State: MA	Zip: 02090	County: Norfolk
c) Legal name of operator : McCourt Construction	Operator telephone no: 617-269-2330		
	Operator fax no.: 617-269-2313	Operator email: rymccourt@mccourtconstructi	
Operator contact name and title: Ryan McCourt			
Address of operator (if different from owner):	Street: 60 K Street		
Town: Boston	State: MA	Zip: 02127	County: Suffolk

d) Check Y for “yes” or N for “no” for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Y ☐ N ☒, if Y, number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Y ☐ N ☒, if Y, date and tracking #: 3. Is the discharge a “new discharge” as defined by 40 CFR 122.2? Y ☐ N ☒ 4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y ☐ N ☒									
e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y ☐ N ☒ If Y, please list: 1. site identification # assigned by the state of NH or MA: 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number:	f) Is the site/facility covered by any other EPA permit, including: 1. Multi-Sector General Permit? Y ☐ N ☒, if Y, number: 2. Final Dewatering General Permit? Y ☐ N ☒, if Y, number: 3. EPA Construction General Permit? Y ☐ N ☒, if Y, number: 4. Individual NPDES permit? Y ☐ N ☒, if Y, number: 5. Any other water quality related individual or general perm 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 poten discharge falls. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left; padding: 5px;"><u>Activity Category</u></th> <th style="width: 60%; text-align: left; padding: 5px;"><u>Activity Sub-Category</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">I - Petroleum Related Site Remediation</td> <td style="padding: 5px;"> A. Gasoline Only Sites ☐ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ☐ C. Petroleum Sites with Additional Contamination ☐ </td> </tr> <tr> <td style="padding: 5px;">II - Non Petroleum Site Remediation</td> <td style="padding: 5px;"> A. Volatile Organic Compound (VOC) Only Sites ☐ B. VOC Sites with Additional Contamination ☐ C. Primarily Heavy Metal Sites ☐ </td> </tr> <tr> <td style="padding: 5px;">III - Contaminated Construction Dewatering</td> <td style="padding: 5px;"> A. General Urban Fill Sites ☒ B. Known Contaminated Sites ☐ </td> </tr> </tbody> </table>		<u>Activity Category</u>	<u>Activity Sub-Category</u>	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 ☐
<u>Activity Category</u>	<u>Activity Sub-Category</u>								
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:			
Discharge of treated groundwater from a construction site			
b) Provide the following information about each discharge:			
1) Number of discharge points:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft Max. flow 0.223 Is maximum flow a design value ? Y ☒ N ☐ Average flow (include units) 100 GPM Is average flow a design value or estimate? Design		
3) Latitude and longitude of each discharge within 100 feet:			
pt.1: lat. 42.347946	long. -71.032981	pt.2: lat.	long.
pt.3: lat.	long.	pt.4: lat.	long.
pt.5: lat.	long.	pt.6: lat.	long.
pt.7: lat.	long.	pt.8: lat.	long.
etc.			
4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent ☐ or seasonal ☒ ? Is discharge ongoing? Y ☒ N ☐		
c) Expected dates of discharge (mm/dd/yy): start 6/1/2015 end 12/31/2015			
d) Please attach a line drawing or flow schematic showing water flow through the facility including:			
1. sources of intake water. 2. contributing flow from the operation. 3. treatment units. and 4. discharge points and receiving waters(s).			
Please refer to Figures 3 and 4 in Appendix B			

3. Contaminant information.

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

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily</u>			
								<u>concentration (ug/l)</u>	<u> </u>	<u> </u>	<u> </u>
1. Total Suspended Solids (TSS)		☐	☒	2	Grab	2540D	7.1 ug/L	350,000			
2. Total Residual Chlorine (TRC)		☐	☒	2	Grab	4500-CL G	0.020 mg/L	63			
3. Total Petroleum Hydrocarbons (TPH)		☒	☐	2	Grab	1664B	1.4 mg/L	< 1.4			
4. Cyanide (CN)	57125	☒	☐	2	Grab	9014	0.010 mg/L	150			
5. Benzene (B)	71432	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
6. Toluene (T)	108883	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
7. Ethylbenzene (E)	100414	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☒	☐	2	Grab	8260C	4.0 ug/L	< 4.0			
9. Total BTEX ²	n/a	☒	☐	2	Grab	8260C	4.0 ug/L	< 4.0			
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) ³	106934	☒	☐	2	Grab	EPA 504.1	0.020 ug/L	< 0.020			
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☐	☐	2	Grab	8260C					

* Numbering system is provided to allow cross-referencing to Effluent Limits and Monitoring Requirements by Sub-Category included 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.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily</u>			
								<u>concentration (ug/l)</u>	<u> </u>	<u> </u>	<u> </u>
13. tert-Amyl Methyl Ether (TAME)	9940508	☒	☐	2	Grab	8260C	1.0 ug/L	< 2.5			
14. Naphthalene	91203	☐	☒	2	Grab	8260C	20 ug/L	23			
15. Carbon Tetrachloride	56235	☒	☐	2	Grab	8260C	2.0 ug/L	< 5.0			
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
18a. Total dichlorobenzene		☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
23. Methylene Chloride	75092	☒	☐	2	Grab	8260C	10 ug/L	< 25			
24. Tetrachloroethene (PCE)	127184	☐	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			
27. Trichloroethene (TCE)	79016	☒	☐	2	Grab	8260C	2.0 ug/L	< 2.0			

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily</u>			
								<u>concentration (ug/l)</u>	<u> </u>	<u> </u>	<u> </u>
28. Vinyl Chloride (Chloroethene)	75014	☒	☐	2	Grab	8260C	4.0 ug/L	< 10			
29. Acetone	67641	☐	☐	2	Grab	8260C	20 ug/L	850			
30. 1,4 Dioxane	123911	☒	☐	2	Grab	8260C	100 ug/L	< 250			
31. Total Phenols	108952	☒	☐	2	Grab	420.1	250 ug/L	< 250			
32. Pentachlorophenol (PCP)	87865	☒	☐	2	Grab	8270D	5.0 ug/L	< 5.0			
33. Total Phthalates (Phthalate esters) ⁴		☒	☐	2	Grab	8270D	10 ug/L	< 10			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	2	Grab	8270D	10 ug/L	< 10			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☐	☒	2	Grab	8270D	N/A	0.075			
a. Benzo(a) Anthracene	56553	☐	☒	2	Grab	8270D	0.050 ug/L	0.075			
b. Benzo(a) Pyrene	50328	☒	☐	2	Grab	8270D	0.10 ug/L	< 0.10			
c. Benzo(b)Fluoranthene	205992	☒	☐	2	Grab	8270D	0.050 ug/L	< 0.050			
d. Benzo(k)Fluoranthene	207089	☒	☐	2	Grab	8270D	0.20 ug/L	< 0.20			
e. Chrysene	21801	☒	☐	2	Grab	8270D	0.20 ug/L	< 0.20			
f. Dibenzo(a,h)anthracene	53703	☒	☐	2	Grab	8270D	0.20 ug/L	< 0.20			
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	2	Grab	8270D	0.20 ug/L	< 0.20			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☐	☐	2	Grab	8270D	N/A	33			

⁴The sum of individual phthalate compounds.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily</u>			
								<u>concentration (ug/l)</u>	<u> </u>	<u> </u>	<u> </u>
h. Acenaphthene	83329	☐	☒	2	Grab	8270D	6.0 ug/L	2.5			
i. Acenaphthylene	208968	☒	☐	2	Grab	8270D	6.0 ug/L	< 6.0			
j. Anthracene	120127	☐	☒	2	Grab	8270D	0.20 ug/L	1.2			
k. Benzo(ghi) Perylene	191242	☒	☐	2	Grab	8270D	0.50 ug/L	< 0.50			
l. Fluoranthene	206440	☒	☐	2	Grab	8270D	0.50 ug/L	< 0.50			
m. Fluorene	86737	☐	☒	2	Grab	8270D	20 ug/L	1.5			
n. Naphthalene	91203	☐	☒	2	Grab	8270D	1.0 ug/L	26			
o. Phenanthrene	85018	☐	☒	2	Grab	8270D	0.50 ug/L	2.01			
p. Pyrene	129000	☒	☐	2	Grab	8270D	1.0 ug/L	< 1.0			
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	2	Grab	8082A	0.20 ug/L	< 0.20			
38. Chloride	16887006	☐	☒	2	Grab	450-CL B	100 mg/L	1,800			
39. Antimony	7440360	☐	☐	2	Grab	6020A	5.0 ug/L	1.6			
40. Arsenic	7440382	☐	☐	2	Grab	6020A	0.40 ug/L	33			
41. Cadmium	7440439	☐	☐	2	Grab	6020A	0.50 ug/L	< 2.5			
42. Chromium III (trivalent)	16065831	☐	☐	2	Grab	6010C	10 ug/L	24			
43. Chromium VI (hexavalent)	18540299	☐	☐	2	Grab	3500 CR B	0.40 ug/L	< 0.40			
44. Copper	7440508	☐	☐	2	Grab	6020A	5.0 ug/L	71			
45. Lead	7439921	☐	☐	2	Grab	6020A	5.0 ug/L	110			
46. Mercury	7439976	☐	☐	2	Grab	7470A	0.10 ug/L	0.11			
47. Nickel	7440020	☐	☐	2	Grab	6020A	5.0 ug/L	240			
48. Selenium	7782492	☐	☐	2	Grab	6020A	5.0 ug/L	75			
49. Silver	7440224	☐	☐	2	Grab	6020A	0.50 ug/L	< 2.5			
50. Zinc	7440666	☐	☐	2	Grab	6020A	10 ug/L	57			
51. Iron	7439896	☐	☐	2	Grab	6010C	50 ug/L	19,000			
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			
								concentration (ug/l)			
See Attached Table		☐	☐	2	Grab						
		☐	☐	2	Grab						

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? Copper, Iron, Lead, Nickel and Selenium
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: Copper DF: 5 Metal: Iron DF: 5 Metal: Lead DF: 5 Metal: Nickel DF: 5 Etc. Selenium DF: 5	Look up the limit calculated at the corresponding dilution factor in Appendix IV . Do any of the m 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: Copper, Iron, Lead and Nickel

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: The treatment system is composed of one 10,000-gallon fractionation tank, two 1,00 gpm, 1 micron bag filter units, two 1,500 granular one cation exchanger.						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank ☒	Air stripper ☐	Oil/water separator ☐	Equalization tanks ☐	Bag filter ☒	☒
	Chlorination ☐	De-chlorination ☐	Other (please describe):	Cation Exchanger		

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate(s)** (g the treatment system:

Average flow rate of discharge gpm Maximum flow rate of treatment system gpm

Design flow rate of treatment system gpm

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

None

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

a) Identify the discharge pathway:

Direct to receiving water ☐

Within facility (sewer) ☐

Storm drain ☒

Wetlands ☐

Other (des

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

Treated groundwater will be discharged to the storm water drain and ultimately to the Boston Inner Harbor

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 resources (on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

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

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water cfs

Please attach any calculation sheets used to support stream flow and dilution calculations.

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

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

6. ESA and NHPA Eligibility.

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

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

A ☒ B ☐ C ☐ D ☐ E ☐ F ☐

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

c) If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence 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 ☐

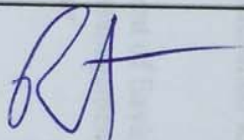
f) If Criterion 3 was selected, attach all written correspondence with the State or Tribal historic preservation officers, including conditions that outline measures the applicant must follow to mitigate or prevent adverse effects due to activities regulated by the permit.

7. Supplemental information.

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

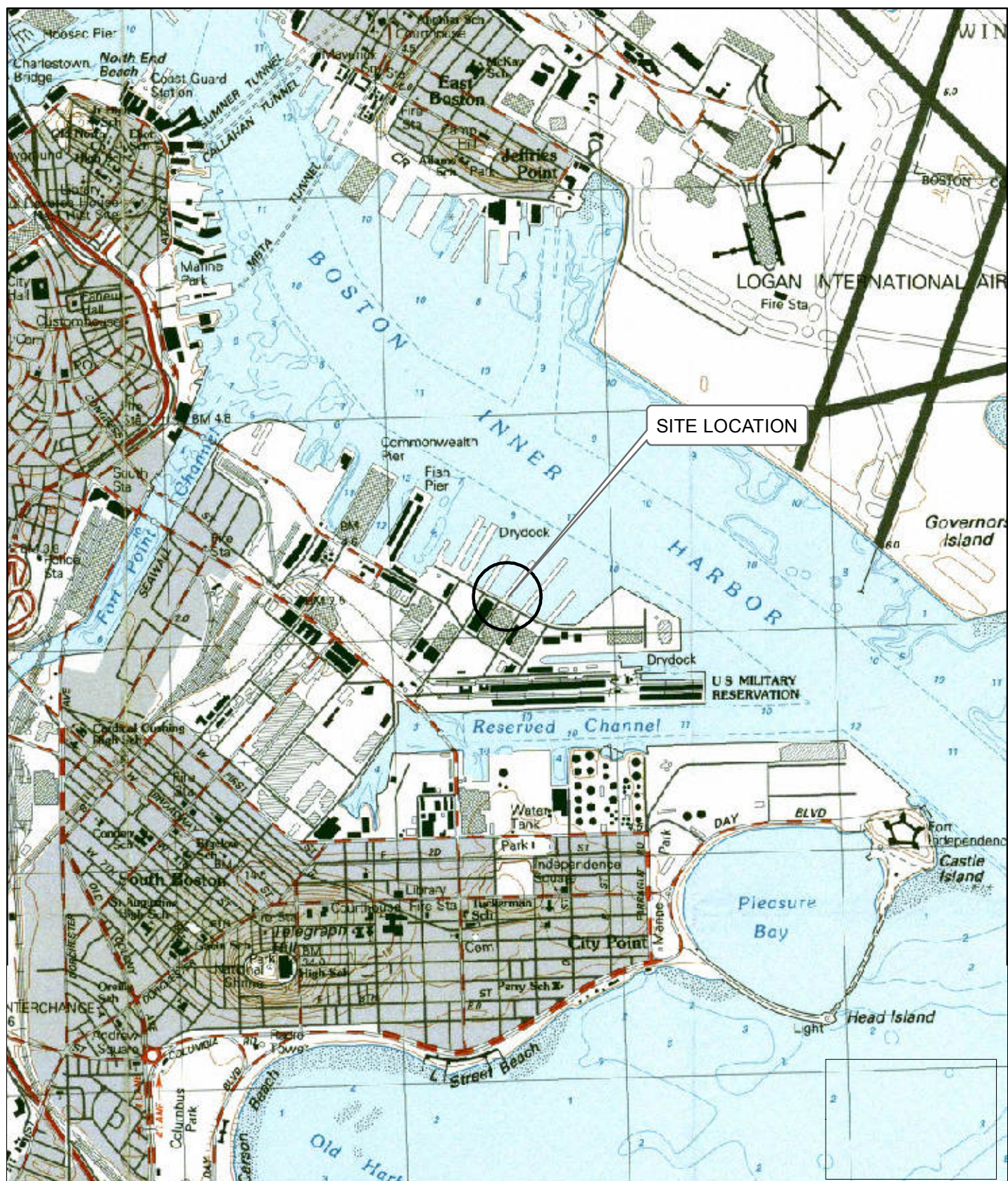
8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

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

Facility/Site Name:	NSTAR Electric d/b/a Eversource Energy	
Operator signature:		
Printed Name & Title:	Ryan McCant Manager	
Date:	5/28/15	



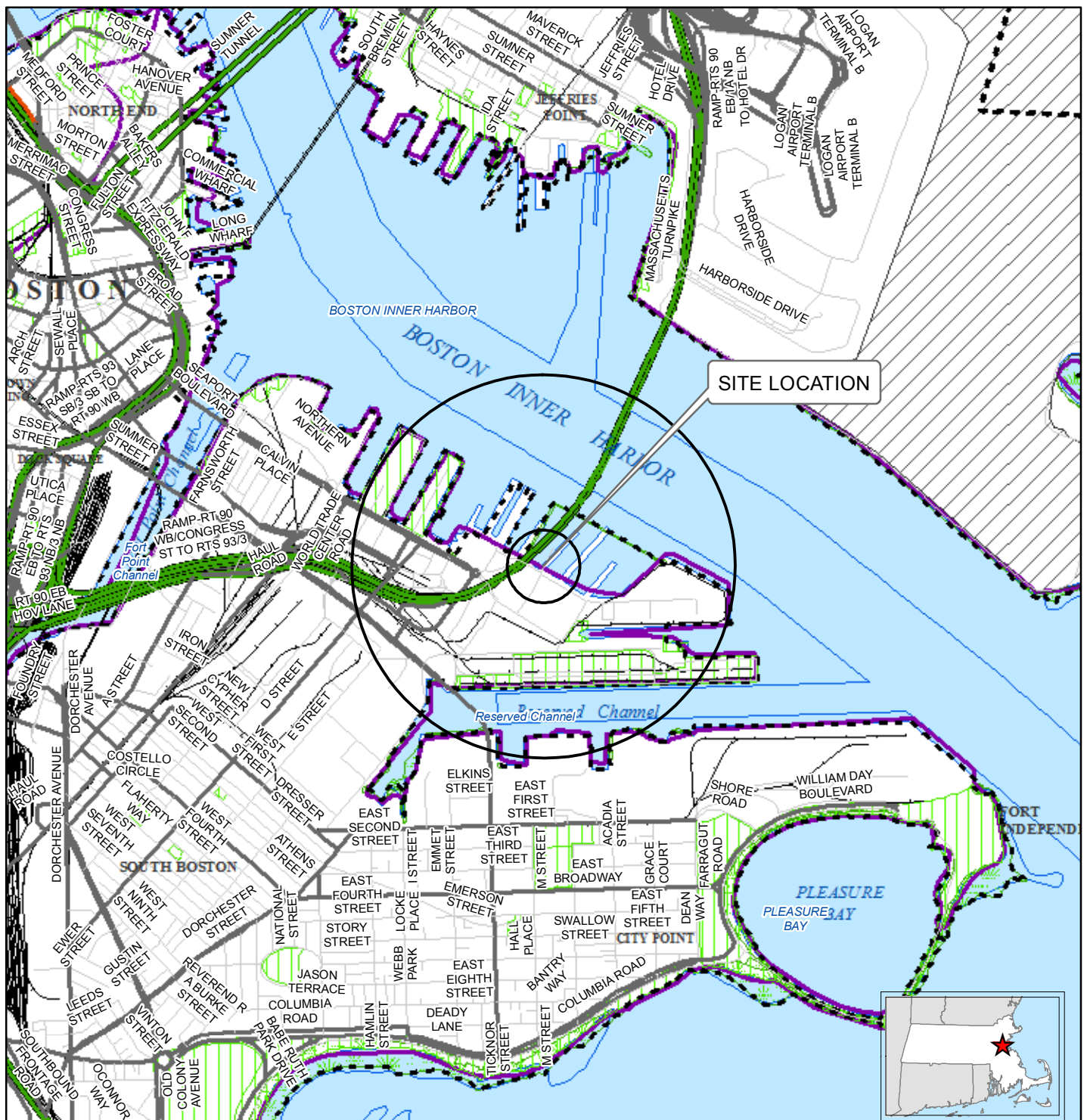
Tighe & Bond



**FIGURE 1
SITE LOCATION MAP**

Eversource
Station 99
5 Seafood Way
South Boston, Massachusetts

May 2015



LEGEND

- | | | | |
|--|---|--|--|
| | NHESP Certified Vernal Pools | | Public Surface Water Supply (PSWS) |
| | Community Public Water Supply - Surface Water | | Inland Wetlands (MA DEP) |
| | Community Public Water Supply - Groundwater | | Coastal Wetlands (MA DEP) |
| | Non-Community Non-Transient Public Water Supply | | Waterbodies |
| | Non-Community Transient Public Water Supply | | Major Drainage Basin |
| | Non-Potential Drinking Water Source Area - High Yield | | Sub Drainage Basin |
| | Non-Potential Drinking Water Source Area - Medium Yield | | Limited Access Highway |
| | Potentially Productive Medium Yield Aquifer | | Multi-Lane Highway, NOT Limited Access |
| | Potentially Productive High Yield Aquifer | | Other Numbered Highway |
| | EPA Designated Sole Source Aquifer | | Major Road - Collector |
| | DEP Approved Wellhead Protection Area (Zone II) | | Minor Street or Road |
| | DEP Interim Wellhead Protection Area (IWPA) | | Town Boundary |
| | NHESP Priority Habitats for Rare Species | | County Boundary |
| | NHESP Estimated Habitats for Rare Wildlife | | Quad Sheet Boundary |
| | Public Surface Water Supply Protection Area (Zone A) | | Track or Trail |
| | Protected and Recreational Open Space | | Train |
| | Area of Critical Environmental Concern (ACEC) | | Powerline |
| | Solid Waste Landfill | | Pipeline |
| | | | Aqueduct |

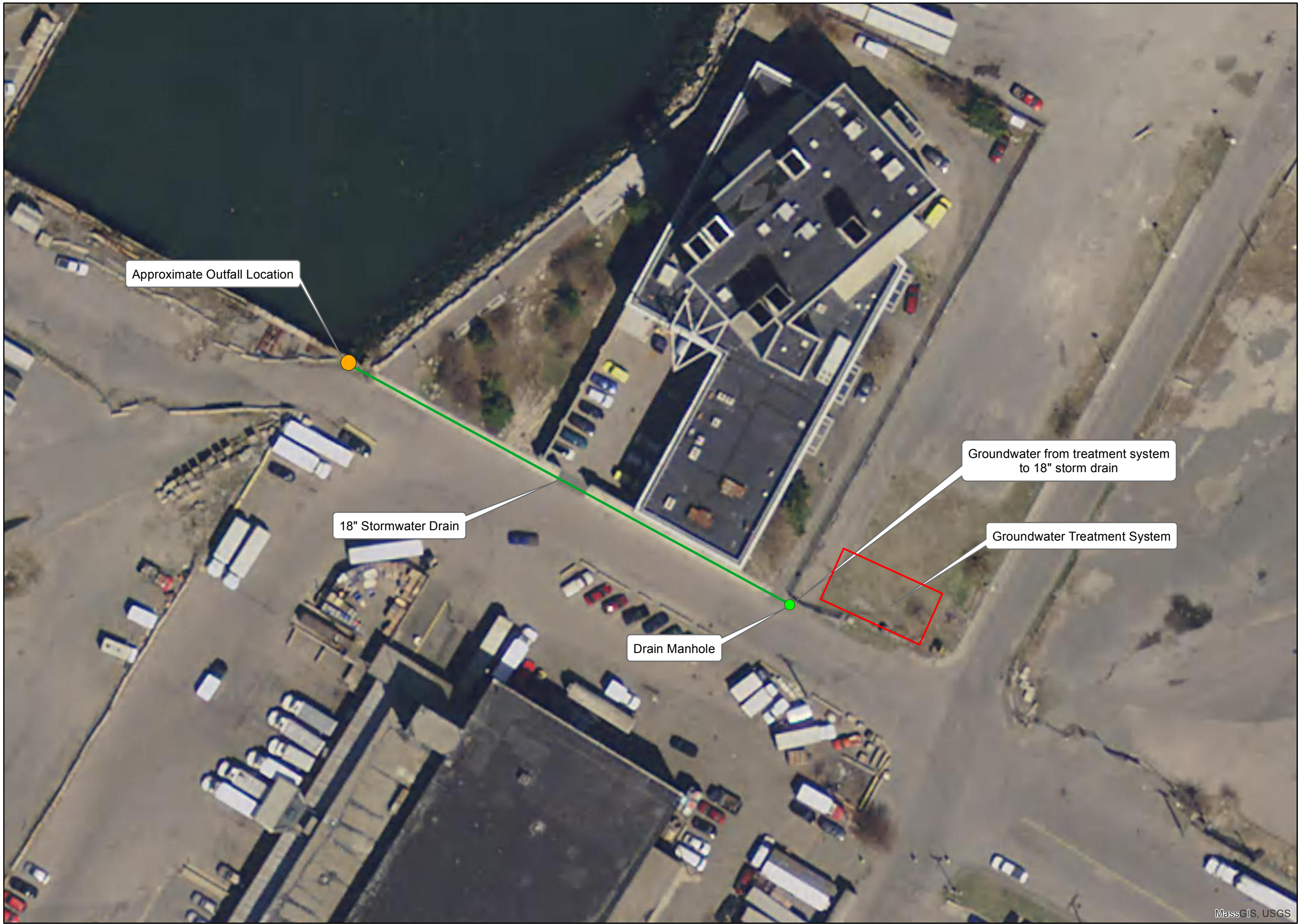
FIGURE 2 PRIORITY RESOURCE MAP

Eversource
Station 99
5 Seafood Way
South Boston, Massachusetts

Data source: Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts
Executive Office of Environmental Affairs.
Circles indicate 500-foot and half-mile radii.
Data valid as of January 2015.



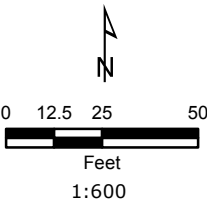
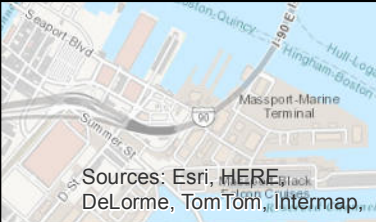
May 2015



DEWATERING PLAN

LEGEND

LOCUS MAP



NOTES

Based on MassGIS Color Orthophotography (April 2013)

**Eversource
Station 99
5 Seafood Way
South Boston,
Massachusetts**

June 2015



MassGIS, USGS

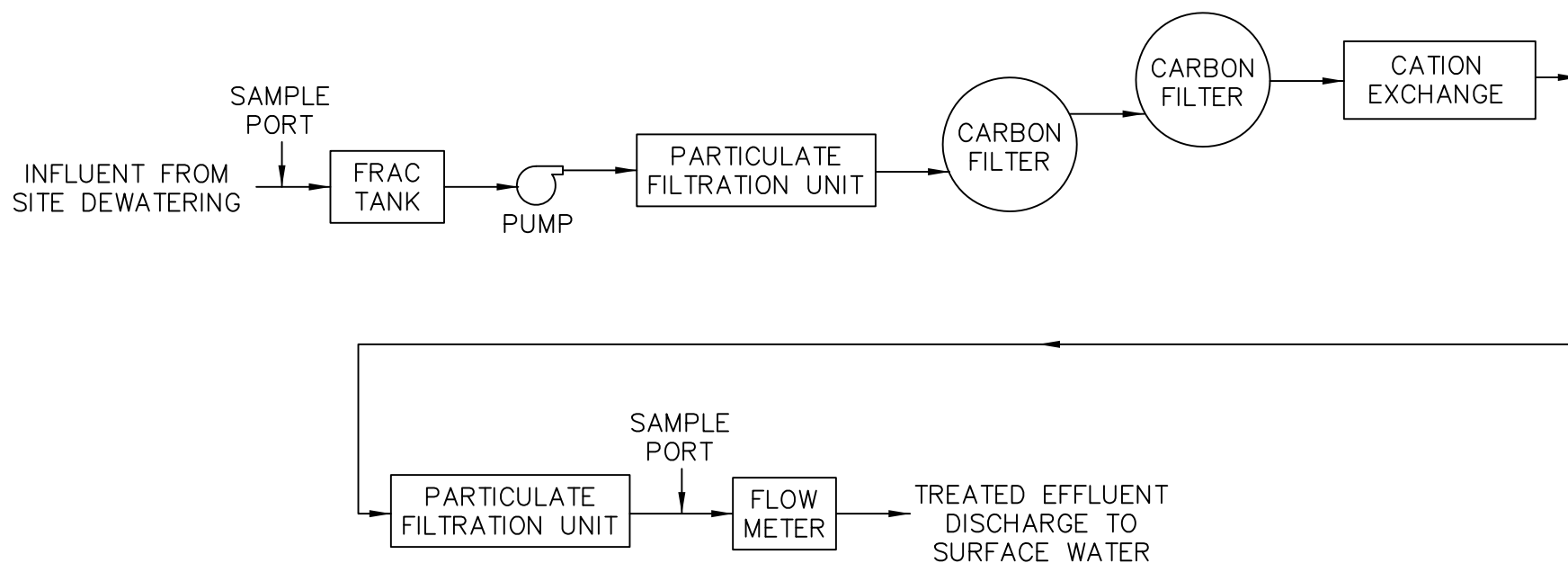
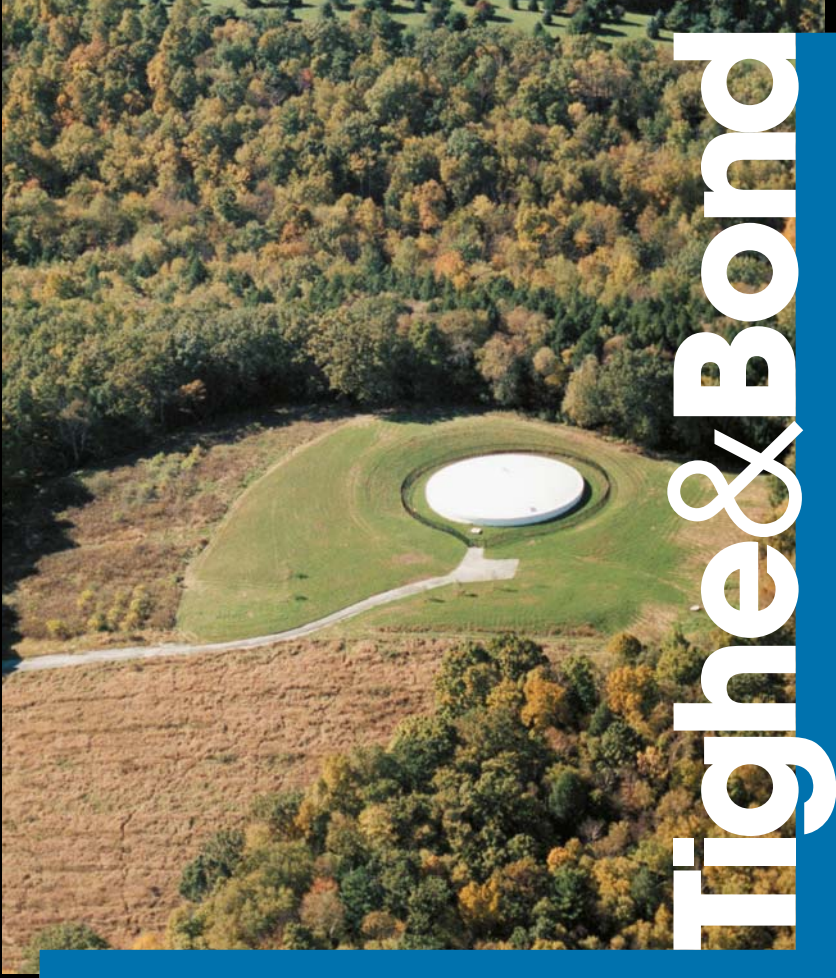


FIGURE 4

PROCESS FLOW DIAGRAM

EVERSOURCE
STATION 99
5 SEAFOOD WAY
SOUTH BOSTON, MASSACHUSETTS

TIGHE & BOND, INC. ENVIRONMENTAL ENGINEERS
POCASSET, MASSACHUSETTS
SCALE: NO SCALE DATE: JUNE 2015



Tighe & Bond

Michael E. Martin

From: Tur, Maria <maria_tur@fws.gov>
Sent: Monday, June 22, 2015 1:27 PM
To: Michael E. Martin
Subject: Re: NSTAR Station 99 - NOI RGP

Hello Michael,

According to our records, your project area is within the range of the federally threatened red knot (*Calidris canutus rufa*) and the endangered roseate tern (*Sterna dougallii dougallii*). However, there is no suitable habitat for either species within your project area. Therefore, we do anticipate that either species is present within your project area.

I hope this helps. Thank you for coordinating.

Maria E. Tur
U.S. Fish and Wildlife Service
New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301
Phone (603) 223-2541 x6419
FAX (603) 223-0104

<http://www.fws.gov/newengland/>

On Mon, Jun 22, 2015 at 12:14 PM, Michael E. Martin <MEMartin@tighebond.com> wrote:

Hi Maria,

This is a follow up to my voicemail. On behalf of NSTAR, I submitted a Notice of Intent for a Remediation General Permit to manage groundwater during construction of a new electrical substation. Prior to discharging the groundwater to the storm drain, we are proposing to treat the groundwater. The treatment system consists of one 10,000-gallon fractionation tank, two 100 gpm, 1 micron bag filter units, two 1,500 granular activated carbon filters and one cation exchanger. Shelly Puleo at EPA requested that I include a letter from U.S. Fish and Wildlife stating that there are no endangered species in the vicinity of the project area. I was hoping you could provide a letter and what additional information you need.

thanks

Michael Martin | Project Manager

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

See Suffolk County

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

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

¹Migratory only, scattered along the coast in small numbers

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



Tighe & Bond

Massachusetts Cultural Resource Information System

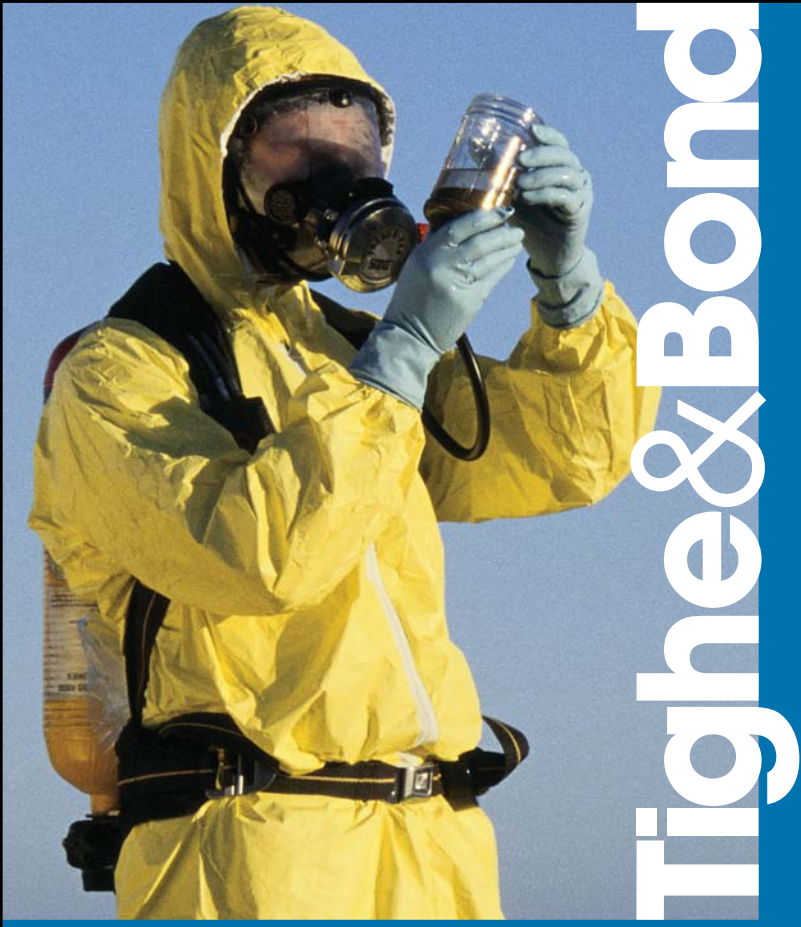
MACRIS

MACRIS Search Results

Search Criteria: Town(s): Boston; Place: South Boston; Street No: 5; Street Name: Seafood Way; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
----------	---------------	--------	------	------

based on a review of the Massachusetts Cultural Resource Information System database, no historical places were located in the vicinity of the project area



Tighe & Bond

Customer: Mccourt
Site: Station 99, South Boston, MA
Date: 6/10/15

Design Basis: Flow rate: 100 gpm
 Water temperature: 55 °F (assumed)

Contaminant	Maximum Detected Conc. (ug/L)	Design Influent Conc. ^(a) (ug/L)	Effluent Criteria ^(b) (ug/L)
TPH			
TPH	< 14	< 1.4	5
PAHs			
Benzo(a)anthracene	0.075	0.0075	0.0038
Acenaphthene	2.5	0.25	NE
Anthracene	1.2	0.12	NE
Fluorene	1.5	0.15	NE
Naphthalene	26	2.6	20
Phenanthrene	2.1	0.21	NE
SVOCs			
2-Methylnaphthalene	55	5.5	NE
2,4-Dimethylphenol	16	1.6	NE
Phenol	1,200	120	NE
3&4-Methylphenol	58	5.8	NE
VOCs			
Acetone	850	85	NE
Metals			
Antimony	1.6	0.16	5.6
Arsenic	33	3.3	36
Barium	360	36	NE
Cadmium	31	3.1	50.3
Chromium (III)	24	2.4	100
Chromium (VI)	< 0.4	< 0.04	50.3
Copper	71	7.1	3.7
Iron	19,000	1,900	1,000
Lead	110	11	8.5
Nickel	240	24	8.2
Selenium	75	7.5	71
Zinc	57	5.7	85.6

(a) Based on 10% of the maximum detected concentrations.

(b) Based on the RGP Effluent Limits.

Bold values indicate the exceedance of the discharge limits.

Recommendations: Pre-Filters (to remove suspended solids)

Bag filters

Liquid Phase Carbon Adsorbers (to remove dissolved organic hydrocarbons)

One PC13 with 1,500 lbs of granular activated carbon

- Benzo(a)anthracene is the critical contaminant.

- Based on the assumed influent hydrocarbon concentrations, no breakthrough of benzo(a)anthracene is expected within 1,000 days of continuous operation at 100 gpm (see the modeling output below).

Cation Exchangers (to remove dissolved cationic metals – Ba, Cd, Cr(III), Cu, Fe, Pb, Ni, Zn)

One PC13 filled with 50 ft³ (2,300 lbs) of C104Na (sodium form) weak acid cation exchange resin

- The C104Na resin in the sodium form will cause no drop in pH.
- Based on the assumed influent metal concentrations, the resin usage rate is predicted to be 9.6 ft³ per million gallons of water (see the modeling output below).
- The PC13 is predicted to require resin change-out every 36 days of continuous operation at 100 gpm.

Post-Filters (to remove fine particulates)

bag filters (1-micron high efficiency)

- The post-filters are recommended for the removal of fine particulates, which may be associated with insoluble PAHs and metals.

Note:

The carbon and resin usage rates are predicted based on the assumed design influent concentrations. The actual carbon and resin usage rates will depend on the actual occurrence and concentrations of the contaminants.

NOTICE

THIS DOCUMENT AND ITS CONTENTS ARE PROPRIETARY TO RFR, AND MAY NOT BE COPIED, DISTRIBUTED OR USED BY ANYONE, IN WHOLE OR IN PART, WITHOUT THE EXPRESS AUTHORIZATION OF RFR.

THE CONTENT OF THIS DOCUMENT HAS BEEN DEVELOPED BY RFR TO ADDRESS SPECIFIC FACTUAL INFORMATION. IT MAY BE BASED ON INFORMATION AND ASSUMPTIONS THAT ARE NOT DISCLOSED WITHIN THIS DOCUMENT, BUT REFLECT RFR KNOWLEDGE AND EXPERIENCE. THE INFORMATION IN THIS DOCUMENT SHOULD NOT BE USED OR RELIED UPON BY ANYONE WITHOUT THE COOPERATION OR ASSISTANCE OF RFR TO FULLY UNDERSTAND ITS INTENDED APPLICATION AND USE.

LIQUID-PHASE CARBON ADSORPTION MODEL CALCULATIONS

CARBON ADSORBERS:	PC13
NO OF ADSORBERS IN SERIES:	1
TOTAL MASS OF CARBON (LBS):	1500.0
FLOW RATE (GPM):	100.00
HYDRAULIC LOADING (GPM/SQ.FT):	7.9464
EMPTY BED CONTACT TIME (MIN.):	4.0891
DESIGN COMPOUND:	BENZO-A-ANTHRACENE
EXPECTED INFLUENT CONCENTRATION (PPB):	0.75000E-02
MODEL INFLUENT CONCENTRATION (PPB):	0.13000
EFFLUENT CRITERIA (PPB):	0.38000E-02
EFFECTIVE K-VALUE (%):	30.000

TIME(DAYS)	VOLUME TREATED(GAL)	EFF. CONC.(PPB)
50.0	7200000.	0.5284615903E-05
100.0	14400000.	0.5284615903E-05
150.0	21600000.	0.5284615903E-05
200.0	28800000.	0.5284615904E-05
250.0	36000000.	0.5284615905E-05
300.0	43200000.	0.5284615951E-05
350.0	50400000.	0.5284616010E-05
400.0	57600000.	0.5284616079E-05
450.0	64800000.	0.5284616158E-05
500.0	72000000.	0.5284616246E-05
550.0	79200000.	0.5284616344E-05
600.0	86400000.	0.5284616452E-05
650.0	93600000.	0.5284616569E-05
700.0	100800000.	0.5284616696E-05
750.0	108000000.	0.5284616833E-05
800.0	115200000.	0.5284617584E-05
850.0	122400000.	0.5284618523E-05
900.0	129600000.	0.5284619594E-05
950.0	136800000.	0.5284620797E-05
1000.0	144000000.	0.5284622132E-05 ← NO BREAKTHROUGH

Note: The model influent concentration results from the impact of the other background compounds, which is determined by using a competitive adsorption model

DISCLAIMER: ACTUAL RESULTS MAY VARY SIGNIFICANTLY FROM THE MODEL. THE MODEL IS BASED ON THE ASSUMPTIONS THAT THE FLOW RATE AND INFLUENT CONCENTRATION ARE CONSTANT, AND ONLY THE CONTAMINANTS PROVIDED TO CARBONAIR ARE PRESENT IN THE WATER. VARYING OPERATING CONDITIONS CAN HAVE ADVERSE EFFECTS ON CARBON ADSORPTIVE CAPACITY. THE PREDICTED BED LIFE IS NOT GUARANTEED.

Heavy	MW	Conc.	Conc.
Metal	(gm/mole)	(mg/l)	(mEq/L)
Lead	207.2	0.0110	0.000106
Aluminum (III)	27.0	0.0000	0.000000
Chromium (III)	52.0	0.0024	0.000138
Barium	137.3	0.0360	0.000524
Cobalt (I)	58.9	0.0000	0.000000
Cobalt (II)	58.9	0.0000	0.000000
Cadmium	112.4	0.0031	0.000055
Nickel	58.7	0.0240	0.000818
Zinc	65.4	0.0570	0.001743
Copper	63.5	0.0071	0.000224
Iron	55.8	1.9000	0.068100
Manganese	54.9	0.0000	0.000000
Calcium	40.1	0.0000	0.000000
Magnesium	24.3	0.0000	0.000000
Silver	108	0.0000	0.000000
Thallium (I)	204.4	0.0000	0.000000
Total		2.0406	0.071709

Resin Exchange Capacity (mEq/ml):

1

Resin Usage Rate (ft³/1000 gal):

0.009587

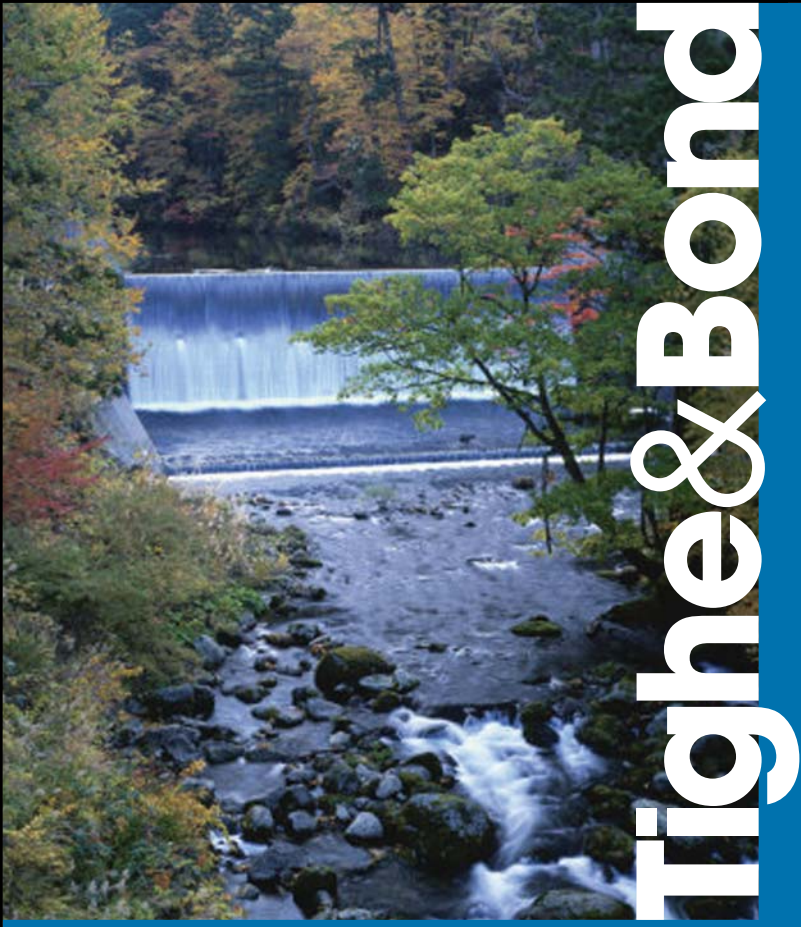


TABLE 2
Groundwater Results
Station 99
Seafood Way
South Boston, Massachusetts

Analytical Test	Sample Identification	MA RCGW-2	GW-3	RGP Effluent Limit	Average Concentration	MW-1		MW-2	
	Sample Date					5/8/2015	5/19/2015	5/8/2015	5/19/2015
TPH - mg/L	TPH	5	5	5	ND	< 14	< 1.6	< 14	< 1.4
Total PAHs Group I - ug/L	Benzo(a)Anthracene	1,000	1,000	0.0038	0.048	< 0.050	< 0.050	0.075	0.068
	Benzo(a)Pyrene	500	500	0.0038	ND	< 0.10	< 0.10	< 0.10	< 0.10
	Benzo(b)Fluoranthene	400	400	0.0038	ND	< 0.050	< 0.050	< 0.050	< 0.050
	Benzo(k)Fluoranthene	100	100	0.0038	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Chrysene	70	70	0.0038	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Dibenzo(a,h)Anthracene	40	40	0.0038	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Indeno(1,2,3-cd)Pyrene	100	100	0.0038	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Total PAHs Group II	NE	NE	10.0	0.048	ND	ND	0.075	0.068
Total PAHs Group II - ug/L	Acenaphthene	6,000	10,000	NE	1.5	< 0.30	< 0.30	2.5	< 6.0
	Acenaphthylene	40	40	NE	ND	< 0.30	< 0.30	< 0.30	< 6.0
	Anthracene	30	30	NE	0.57	< 0.20	< 0.20	0.86	1.2
	Benzo(ghi)Perylene	20	20	NE	ND	< 0.50	< 0.50	< 0.50	< 0.50
	Fluoranthene	200	200	NE	ND	< 0.50	< 0.50	< 0.50	<0.50
	Fluorene	40	40	NE	5.6	< 1.0	< 1.0	1.5	< 20
	Naphthalene	700	20,000	20	10	< 1.0	< 1.0	26	12
	Phenanthrene	10,000	10,000	NE	0.85	0.088	< 0.050	2.1	1.2
	Pyrene	20	20	NE	ND	< 1.0	< 1.0	< 1.0	< 1.0
	Total PAHs Group II	NE	NE	100	18.24	0.088	ND	33	14.4
SVOCs - ug/L	Pentachlorophenol	200	200	1.0	ND	< 5.0	< 5.0	< 5.0	< 5.0
	2-Methylnaphthalene	2,000	20,000	NE	20	< 1.0	< 1.0	55	24
	Bis (2-Ethylhexyl) Phthalate	50,000	50,000	6.0	4.7	< 10	3.9	< 10	< 10
	2,4-Dimethylphenol	40,000	50,000	NE	7.8	< 10	< 10	16	< 10
	Phenol	2,000	2,000	NE	1,950	< 10	< 10	1,200	740
	3/4-Methylphenol	NE	NE	NE	24	< 10	< 10	58	29
	All Other SVOCs	c/s	c/s	NE	ND	ND	ND	ND	ND
Metals- ug/L	Antimony	8,000	8,000	5.6	2.3	< 5.0	< 5.0	1.6	< 5.0
	Arsenic	900	900	36	26	25	20	27	33
	Barium	50,000	50,000	NE	261	260	95	330	360
	Cadmium	4	4	8.9	ND	< 2.5	< 2.5	< 0.50	< 2.5
	Chromium	300	300	50.3	17	10	< 5.0	25	31
	Chromium (VI)	300	300	50.3	ND	< 0.4	< 0.4	< 0.4	< 0.4
	Chromium (III)	600	600	100	10	10	< 10	24	0.71
	Copper	100,000	NE	3.7	51	26	63	43	71
	Iron	NE	NE	1,000	8,426	7,000	< 5.0	7,700	19,000
	Lead	10	10	8.5	46.5	< 5.0	< 5.0	110	71
	Mercury	20	20	1.1	0.07	< 0.10	< 0.10	< 0.10	0.11
	Nickel	200	200	8.2	119	15	< 25	240	210
	Selenium	700	100	71	49	75	61	29	29
	Silver	7	7	2.2	ND	< 0.50	< 2.5	< 0.50	< 2.5
	Zinc	900	900	85.6	37	17	< 50	47	57
1,4-Dioxane - ug/L	1,4-Dioxane	6,000	50,000	NE	ND	< 100	< 50	< 250	< 500
1,2-Dibromothane - ug/L	1,2-Dibromothane (EDB)	2	50,000	0.05	ND	< 0.020	< 0.020	< 0.020	< 0.020
PCB - ug/L	Aroclor-1016	NE	NE	NE	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Aroclor-1221	NE	NE	NE	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Aroclor-1232	NE	NE	NE	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Aroclor-1242	NE	NE	NE	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Aroclor-1248	NE	NE	NE	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Aroclor-1254	NE	NE	NE	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Aroclor-1260	NE	NE	NE	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Aroclor-1262	NE	NE	NE	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Aroclor-1268	NE	NE	NE	ND	< 0.20	< 0.20	< 0.20	< 0.20
	Total PCBs	5	10	0.000064	ND	< 0.20	< 0.20	< 0.20	< 0.20
VOCs - ug/L	tert-Butyl Alcohol (TBA)	10,000	NE	NE	NA	NA	NA	NA	NA
	tert-Amyl Methyl Ether (TAME)	NE	NE	NE	ND	< 1.0	< 0.50	< 2.5	< 5.0
	Napthalene	700	20,000	20	15	< 20	< 2.0	< 50	23
	Carbon Tetrachloride	2	5,000	4.4	ND	< 2.0	< 1.0	< 5.0	< 10
	1,2 Dichlorobenzene (o-DCB)	2,000	2,000	600	ND	< 2.0	< 1.0	< 5.0	< 10
	1,3 Dichlorobenzene (m-DCB)	6,000	500,000	320	ND	< 2.0	< 1.0	< 5.0	< 10
	1,4 Dicholorbenzene (p-DCB)	60	8,000	5.0	ND	< 2.0	< 1.0	< 5.0	< 10
	1,1 Dichloroethane (DCA)	2,000	20,000	70.0	ND	< 2.0	< 1.0	< 5.0	< 10
	1,2 Dichloroethane (DCA)	5	20,000	5.0	ND	< 2.0	< 1.0	< 5.0	< 10
	1,1 Dichloroethene (DCE)	80	30,000	3.2	ND	< 2.0	< 1.0	< 5.0	< 10
	cis-1,2 Dichloroethene (DCE)	100	50,000	70	ND	< 2.0	< 1.0	< 5.0	< 10
	Methylene Chloride	2,000	50,000	4.6	ND	< 10	< 5.0	< 25	< 50
	Tetrachloroethene (PCE)	50	30,000	5.0	ND	< 2.0	< 1.0	< 5.0	< 10
	1,1,1 Trichloro-ethane (TCA)	4,000	20,000	200	ND	< 2.0	< 1.0	< 5.0	< 10
	1,1,2 Trichloro-ethane (TCA)	900	50,000	5.0	ND	< 2.0	< 1.0	< 5.0	< 10
	Trichloroethene (TCE)	5	5,000	5.0	ND	< 2.0	< 1.0	< 5.0	< 10
	Benzene	1,000	10,000	NE	ND	< 2.0	< 1.0	< 5.0	< 10
	Toluene	40,000	40,000	NE	ND	< 2.0	< 1.0	< 5.0	< 10
	Ethylbenzene	5,000	5,000	NE	ND	< 2.0	< 1.0	< 5.0	< 10
	Total Xylenes	3,000	5,000	NE	ND	< 4.0	< 2.0	< 10	< 20
	Total BTEX	NE	NE	100	ND	ND	ND	ND	ND
	Methyl tert-Butyl Ether (mtBE)	5,000	50,000	70	ND	< 2.0	< 1.0	< 5.0	< 10
	Acetone	50,000	50,000	NE	329	< 20	< 10	850	450
	Vinyl Chloride	2	50,000	2.0	ND	< 4.0	< 1.0	< 10	< 20
Classical Chemistry	Chloride (mg/L)	NE	NE	NE	3,325	1,500	7,900	1,800	2,100
	Total Cyanide (ug/L)	30	30	1.0	68	< 10	< 10	110	150
	Phenols (ug/L)	2,000	2,000	300	1,963	< 50	< 50	4,200	3,600
	Total Residual Chlorine (ug/L)	NE	NE	7.5	23	< 20	< 20	63	< 20
	Total Suspended Solids (mg/L)	NE	NE	30	169	180	7.0	350	140

Notes:
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
TPH = Total Petroleum Hydrocarbons
PCBs = Polychlorinated biphenyls
mg/L= milligrams per kilogram (ppm)
ug/L= micrograms per kilogram (ppb)
< xx = not detected above the indicated laboratory method detection limit
c/s = compound specific
NE = Not Established
NA = Not Analyzed
ND = Not Detected
* Indicates compound was detected in the blank sample

May 14, 2015

Michael Zylich
NSTAR Electric & Gas Corporation
One NSTAR Way, SUM SE-250
East Sandwich, MA 02090-9230

Project Location: Seaport District, Boston, MA
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 15E0343

Enclosed are results of analyses for samples received by the laboratory on May 8, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long horizontal flourish extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	10
15E0343-01	10
15E0343-02	18
15E0343-03	26
Sample Preparation Information	28
QC Data	30
Volatile Organic Compounds by GC/MS	30
B121508	30
Semivolatile Organic Compounds by GC/MS	35
B121415	35
Polychlorinated Biphenyls By GC/ECD	40
B121418	40
Metals Analyses (Total)	41
B121459	41
B121464	41
B121637	42
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	44
B121155	44
B121338	44
B121339	44
B121399	45
B121484	45
B121536	45
B121560	46

Table of Contents (continued)

Drinking Water Organics EPA 504.1	47
B121502	47
Dual Column RPD Report	48
Flag/Qualifier Summary	52
Certifications	53
Chain of Custody/Sample Receipt	57

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

NSTAR Electric & Gas Corporation
One NSTAR Way, SUM SE-250
East Sandwich, MA 02090-9230
ATTN: Michael Zylich

REPORT DATE: 5/14/2015

PURCHASE ORDER NUMBER: 64454, Release 1

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15E0343

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

PROJECT LOCATION: Seaport District, Boston, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	15E0343-01	Ground Water		EPA 1664B	
				EPA 420.1	
				EPA 504.1	
				SM21-22 2540D	
				SM21-22 3500 Cr B	
				SM21-22 4500 CL B	
				SM21-22 4500 CL G	
				SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
MW-2	15E0343-02	Ground Water		Tri Chrome Calc.	
				EPA 1664B	
				EPA 420.1	
				EPA 504.1	
				SM21-22 2540D	
				SM21-22 3500 Cr B	
				SM21-22 4500 CL B	
				SM21-22 4500 CL G	
				SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
Trip Blank	15E0343-03	Trip Blank Water		SW-846 9014	
				Tri Chrome Calc.	
				SW-846 8260C	

CASE NARRATIVE SUMMARY

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

For method 6020, only a select list of metals was requested and reported.

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

EPA 504.1

Qualifications:

S-12

Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

Analyte & Samples(s) Qualified:

1,3-Dibromopropane

15E0343-02[MW-2]

SW-846 6010C

Qualifications:

M-07

Result is serial dilution as per MA CAM/ CT RCP regulation.

Analyte & Samples(s) Qualified:

Iron

B121459-MS1

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Iron

15E0343-01[MW-1]

SW-846 6020A

Qualifications:

DL-15

Sample required a dilution due to low internal standard recovery of the lesser diluted digestion, reporting limit is elevated.

Analyte & Samples(s) Qualified:

Antimony

15E0343-01[MW-1]

Cadmium

15E0343-01[MW-1]

Lead

15E0343-01[MW-1], B121464-DUP1

Silver

15E0343-01[MW-1]

SW-846 8082A

Qualifications:

R-05

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

Analyte & Samples(s) Qualified:

Aroclor-1016

15E0343-01[MW-1], 15E0343-02[MW-2], B121418-BLK1, B121418-BS1, B121418-BSD1

Aroclor-1016 [2C]

15E0343-01[MW-1], 15E0343-02[MW-2], B121418-BLK1, B121418-BS1, B121418-BSD1

Aroclor-1260

15E0343-01[MW-1], 15E0343-02[MW-2], B121418-BLK1, B121418-BS1, B121418-BSD1

Aroclor-1260 [2C]

15E0343-01[MW-1], 15E0343-02[MW-2], B121418-BLK1, B121418-BS1, B121418-BSD1

SW-846 8260C

Qualifications:

DL-01

Elevated reporting limits for all volatile compounds due to foaming sample matrix.

Analyte & Samples(s) Qualified:

15E0343-01[MW-1], 15E0343-02[MW-2]

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

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**2-Hexanone (MBK)**

B121508-BS1, B121508-BSD1

Tetrahydrofuran

B121508-BS1, B121508-BSD1

L-04

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

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

15E0343-01[MW-1], 15E0343-02[MW-2], 15E0343-03[Trip Blank], B121508-BLK1, B121508-BS1, B121508-BSD1

L-05

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

Analyte & Samples(s) Qualified:**2-Butanone (MEK)**

15E0343-02[MW-2], B121508-BS1, B121508-BSD1

Acetone

15E0343-01[MW-1], 15E0343-02[MW-2], B121508-BS1, B121508-BSD1

L-07

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

Analyte & Samples(s) Qualified:**Vinyl Chloride**

B121508-BSD1

L-14

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

Analyte & Samples(s) Qualified:**4-Methyl-2-pentanone (MIBK)**

B121508-BS1, B121508-BSD1

Bromomethane

B121508-BS1

Chloromethane

B121508-BS1, B121508-BSD1

RL-07

Elevated reporting limit based on lowest point in calibration.

MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:**Carbon Disulfide**

15E0343-03[Trip Blank]

Methylene Chloride

15E0343-03[Trip Blank]

V-05

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

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

15E0343-01[MW-1], 15E0343-02[MW-2], 15E0343-03[Trip Blank], B121508-BLK1, B121508-BS1, B121508-BSD1

1,2,4-Trichlorobenzene

15E0343-01[MW-1], 15E0343-02[MW-2], 15E0343-03[Trip Blank], B121508-BLK1, B121508-BS1, B121508-BSD1

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

15E0343-01[MW-1], 15E0343-02[MW-2], 15E0343-03[Trip Blank], B121508-BLK1, B121508-BS1, B121508-BSD1

Dichlorodifluoromethane (Freon 11)

15E0343-01[MW-1], 15E0343-02[MW-2], 15E0343-03[Trip Blank], B121508-BLK1, B121508-BS1, B121508-BSD1

Naphthalene

15E0343-01[MW-1], 15E0343-02[MW-2], 15E0343-03[Trip Blank], B121508-BLK1, B121508-BS1, B121508-BSD1

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

V-06

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

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

B121508-BS1, B121508-BSD1

2-Butanone (MEK)

15E0343-02[MW-2], B121508-BS1, B121508-BSD1

2-Hexanone (MBK)

B121508-BS1, B121508-BSD1

4-Methyl-2-pentanone (MIBK)

B121508-BS1, B121508-BSD1

Acetone

15E0343-01[MW-1], 15E0343-02[MW-2], B121508-BS1, B121508-BSD1

Bromomethane

B121508-BS1, B121508-BSD1

Tetrahydrofuran

B121508-BS1, B121508-BSD1

V-16

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

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

15E0343-01[MW-1], 15E0343-02[MW-2], 15E0343-03[Trip Blank], B121508-BLK1, B121508-BS1, B121508-BSD1

V-20

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

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

15E0343-01[MW-1], 15E0343-02[MW-2], 15E0343-03[Trip Blank], B121508-BLK1

2-Butanone (MEK)

15E0343-01[MW-1], 15E0343-03[Trip Blank], B121508-BLK1

2-Hexanone (MBK)

15E0343-01[MW-1], 15E0343-02[MW-2], 15E0343-03[Trip Blank], B121508-BLK1

4-Methyl-2-pentanone (MIBK)

15E0343-01[MW-1], 15E0343-02[MW-2], 15E0343-03[Trip Blank], B121508-BLK1

Acetone

15E0343-03[Trip Blank], B121508-BLK1

Bromomethane

15E0343-01[MW-1], 15E0343-02[MW-2], 15E0343-03[Trip Blank], B121508-BLK1

Tetrahydrofuran

15E0343-01[MW-1], 15E0343-02[MW-2], 15E0343-03[Trip Blank], B121508-BLK1

SW-846 8270D

Qualifications:**RL-03**

Elevated reporting limit based on lowest point in calibration.

Requested reporting limit not met.

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

15E0343-01[MW-1], 15E0343-02[MW-2], B121415-BLK1

Hexachlorobutadiene

15E0343-01[MW-1], 15E0343-02[MW-2], B121415-BLK1

Pentachlorophenol

15E0343-01[MW-1], 15E0343-02[MW-2], B121415-BLK1

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

SW-846 8260C

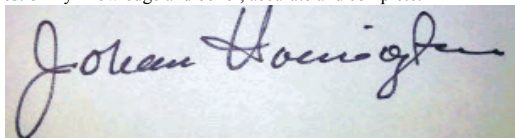
Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone,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

SW-846 8270D

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

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

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

A handwritten signature in black ink, appearing to read "Johanna K. Harrington", is written over a light-colored, slightly textured background.

Johanna K. Harrington

Manager, Laboratory Reporting

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-1

Sample ID: 15E0343-01

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	20	µg/L	2	L-05, V-06	SW-846 8260C	5/12/15	5/12/15 11:52	CMR
tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Benzene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Bromobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Bromochloromethane	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Bromodichloromethane	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Bromoform	ND	10	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Bromomethane	ND	40	µg/L	2	V-20	SW-846 8260C	5/12/15	5/12/15 11:52	CMR
2-Butanone (MEK)	ND	20	µg/L	2	V-20	SW-846 8260C	5/12/15	5/12/15 11:52	CMR
n-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
sec-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
tert-Butylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Carbon Disulfide	ND	10	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Carbon Tetrachloride	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Chlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Chlorodibromomethane	ND	1.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Chloroethane	ND	4.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Chloroform	ND	4.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Chloromethane	ND	4.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
2-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
4-Chlorotoluene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	µg/L	2	V-05	SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Dibromomethane	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,2-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,3-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,4-Dichlorobenzene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Dichlorodifluoromethane (Freon 12)	ND	4.0	µg/L	2	L-04, V-05	SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,1-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,2-Dichloroethane	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,1-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
cis-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
trans-1,2-Dichloroethylene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,3-Dichloropropane	ND	1.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
2,2-Dichloropropane	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,1-Dichloropropene	ND	1.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
cis-1,3-Dichloropropene	ND	0.80	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
trans-1,3-Dichloropropene	ND	4.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Diethyl Ether	ND	4.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Diisopropyl Ether (DIPE)	ND	1.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,4-Dioxane	ND	100	µg/L	2	V-16, V-20	SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Ethylbenzene	ND	2.0	µg/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-1

Sample ID: 15E0343-01

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	1.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
2-Hexanone (MBK)	ND	20	g/L	2	V-20	SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Isopropylbenzene (Cumene)	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
p-Isopropyltoluene (p-Cymene)	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Methyl tert-Butyl Ether (MTBE)	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Methylene Chloride	ND	10	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
4-Methyl-2-pentanone (MIBK)	ND	20	g/L	2	V-20	SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Naphthalene	ND	20	g/L	2	V-05	SW-846 8260C	5/12/15	5/12/15 11:52	CMR
n-Propylbenzene	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Styrene	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,1,1,2-Tetrachloroethane	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,1,2,2-Tetrachloroethane	ND	1.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Tetrachloroethylene	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Tetrahydrofuran	ND	4.0	g/L	2	V-20	SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Toluene	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,2,3-Trichlorobenzene	ND	20	g/L	2	V-05	SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,2,4-Trichlorobenzene	ND	10	g/L	2	V-05	SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,1,1-Trichloroethane	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,1,2-Trichloroethane	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Trichloroethylene	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Trichlorofluoromethane (Freon 11)	ND	4.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,2,3-Trichloropropane	ND	4.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,2,4-Trimethylbenzene	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
1,3,5-Trimethylbenzene	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Vinyl Chloride	ND	4.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
m+p Xylene	ND	4.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
o-Xylene	ND	2.0	g/L	2		SW-846 8260C	5/12/15	5/12/15 11:52	CMR
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	106	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	94.8	70-130							

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-1

Sample ID: 15E0343-01

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Acenaphthylene (low)	ND	0.30	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Acetophenone	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Aniline	ND	5.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Anthracene (low)	ND	0.20	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Benzo(a)anthracene (low)	ND	0.050	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Benzo(a)pyrene (low)	ND	0.10	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Benzo(b)fluoranthene (low)	ND	0.050	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Benzo(k)fluoranthene (low)	ND	0.20	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Bis(2-chloroethoxy)methane	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Bis(2-chloroethyl)ether	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Bis(2-chloroisopropyl)ether	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
4-Bromophenylphenylether	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Butylbenzylphthalate	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
4-Chloroaniline	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
2-Chloronaphthalene	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
2-Chlorophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Chrysene (low)	ND	0.20	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Dibenzofuran	ND	5.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Di-n-butylphthalate	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
1,2-Dichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
1,3-Dichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
1,4-Dichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
3,3-Dichlorobenzidine	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
2,4-Dichlorophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Diethylphthalate	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
2,4-Dimethylphenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Dimethylphthalate	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
2,4-Dinitrophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
2,4-Dinitrotoluene	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
2,6-Dinitrotoluene	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Di-n-octylphthalate	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Fluoranthene (low)	ND	0.50	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Fluorene (low)	ND	1.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Hexachlorobenzene	ND	2.0	g/L	1	RL-03	SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Hexachlorobutadiene	ND	10	g/L	1	RL-03	SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Hexachloroethane	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Isophorone	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
2-Methylnaphthalene (low)	ND	1.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-1

Sample ID: 15E0343-01

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
3/4-Methylphenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Naphthalene (low)	ND	1.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Nitrobenzene	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
2-Nitrophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
4-Nitrophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Pentachlorophenol	ND	5.0	g/L	1	RL-03	SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Phenanthrene (low)	0.088	0.050	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
Phenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
Pyrene (low)	ND	1.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:22	CJM
1,2,4-Trichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
2,4,5-Trichlorophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL
2,4,6-Trichlorophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:17	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	29.1	15-110	5/12/15 10:17
Phenol-d6	22.8	15-110	5/12/15 10:17
Nitrobenzene-d5	87.4	30-130	5/12/15 10:17
Nitrobenzene-d5 (low)	54.7	30-130	5/12/15 12:22
2-Fluorobiphenyl	80.6	30-130	5/12/15 10:17
2-Fluorobiphenyl (low)	54.2	30-130	5/12/15 12:22
2,4,6-Tribromophenol	51.4	15-110	5/12/15 10:17
p-Terphenyl-d14	79.8	30-130	5/12/15 10:17
p-Terphenyl-d14 (low)	40.5	30-130	5/12/15 12:22

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-1

Sample ID: 15E0343-01

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	g/L	1	R-05	SW-846 8082A	5/11/15	5/12/15 12:30	PJG
Aroclor-1221 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:30	PJG
Aroclor-1232 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:30	PJG
Aroclor-1242 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:30	PJG
Aroclor-1248 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:30	PJG
Aroclor-1254 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:30	PJG
Aroclor-1260 [1]	ND	0.20	g/L	1	R-05	SW-846 8082A	5/11/15	5/12/15 12:30	PJG
Aroclor-1262 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:30	PJG
Aroclor-1268 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:30	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	43.2	30-150						5/12/15 12:30	
Decachlorobiphenyl [2]	41.3	30-150						5/12/15 12:30	
Tetrachloro-m-xylene [1]	80.8	30-150						5/12/15 12:30	
Tetrachloro-m-xylene [2]	86.6	30-150						5/12/15 12:30	

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-1

Sample ID: 15E0343-01

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	g/L	5	DL-15	SW-846 6020A	5/11/15	5/12/15 13:47	KSH
Arsenic	25	0.40	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:03	KSH
Barium	260	50	g/L	5		SW-846 6020A	5/11/15	5/12/15 13:47	KSH
Cadmium	ND	2.5	g/L	5	DL-15	SW-846 6020A	5/11/15	5/12/15 13:47	KSH
Chromium	ND	0.010	mg/L	1		SW-846 6010C	5/11/15	5/12/15 15:41	MJH
Chromium	10	1.0	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:03	KSH
Chromium, Trivalent	0.010		mg/L	1		Tri Chrome Calc.	5/11/15	5/12/15 12:03	KSH
Copper	26	5.0	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:03	KSH
Iron	7.0	0.050	mg/L	1	MS-07	SW-846 6010C	5/11/15	5/12/15 15:41	MJH
Lead	ND	5.0	g/L	5	DL-15	SW-846 6020A	5/11/15	5/12/15 13:47	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/13/15	5/14/15 10:27	SCB
Nickel	15	5.0	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:03	KSH
Selenium	75	5.0	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:03	KSH
Silver	ND	2.5	g/L	5	DL-15	SW-846 6020A	5/11/15	5/12/15 13:47	KSH
Zinc	17	10	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:03	KSH

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-1

Sample ID: 15E0343-01

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	1500	100	mg/L	100		SM21-22 4500 CL B	5/12/15	5/12/15 14:45	DJM
Chlorine, Residual	ND	0.020	mg/L	1		SM21-22 4500 CL G	5/8/15	5/8/15 21:45	DJM
Cyanide	ND	0.010	mg/L	1		SW-846 9014	5/12/15	5/12/15 12:45	VAK
Hexavalent Chromium	ND	0.0040	mg/L	1		SM21-22 3500 Cr B	5/8/15	5/8/15 23:20	DJM
Phenol	ND	0.050	mg/L	1		EPA 420.1	5/11/15	5/11/15 11:30	LL
Total Suspended Solids	180	7.1	mg/L	1		SM21-22 2540D	5/11/15	5/11/15 12:45	LL
Silica Gel Treated HEM (SGT-HEM)	ND	14	mg/L	1		EPA 1664B	5/12/15	5/12/15 13:00	LL

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-1

Sample ID: 15E0343-01

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Drinking Water Organics EPA 504.1

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2-Dibromoethane (EDB) (1)	ND	0.020	g/L	1		EPA 504.1	5/12/15	5/12/15 15:01	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,3-Dibromopropane (1)	107	70-130						5/12/15 15:01	
1,3-Dibromopropane (2)	106	70-130						5/12/15 15:01	

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-2

Sample ID: 15E0343-02

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	850	50	g/L	5	L-05, V-06	SW-846 8260C	5/12/15	5/12/15 12:23	CMR
tert-Amyl Methyl Ether (TAME)	ND	2.5	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Benzene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Bromobenzene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Bromochloromethane	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Bromodichloromethane	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Bromoform	ND	25	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Bromomethane	ND	100	g/L	5	V-20	SW-846 8260C	5/12/15	5/12/15 12:23	CMR
2-Butanone (MEK)	130	50	g/L	5	L-05, V-06	SW-846 8260C	5/12/15	5/12/15 12:23	CMR
n-Butylbenzene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
sec-Butylbenzene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
tert-Butylbenzene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Carbon Disulfide	ND	25	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Carbon Tetrachloride	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Chlorobenzene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Chlorodibromomethane	ND	2.5	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Chloroethane	ND	10	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Chloroform	ND	10	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Chloromethane	ND	10	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
2-Chlorotoluene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
4-Chlorotoluene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	g/L	5	V-05	SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,2-Dibromoethane (EDB)	ND	2.5	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Dibromomethane	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,2-Dichlorobenzene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,3-Dichlorobenzene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,4-Dichlorobenzene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Dichlorodifluoromethane (Freon 12)	ND	10	g/L	5	L-04, V-05	SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,1-Dichloroethane	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,2-Dichloroethane	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,1-Dichloroethylene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
cis-1,2-Dichloroethylene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
trans-1,2-Dichloroethylene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,2-Dichloropropane	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,3-Dichloropropane	ND	2.5	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
2,2-Dichloropropane	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,1-Dichloropropene	ND	2.5	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
cis-1,3-Dichloropropene	ND	2.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
trans-1,3-Dichloropropene	ND	10	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Diethyl Ether	ND	10	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Diisopropyl Ether (DIPE)	ND	2.5	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,4-Dioxane	ND	250	g/L	5	V-16, V-20	SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Ethylbenzene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-2

Sample ID: 15E0343-02

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	2.5	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
2-Hexanone (MBK)	ND	50	g/L	5	V-20	SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Isopropylbenzene (Cumene)	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
p-Isopropyltoluene (p-Cymene)	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Methyl tert-Butyl Ether (MTBE)	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Methylene Chloride	ND	25	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
4-Methyl-2-pentanone (MIBK)	ND	50	g/L	5	V-20	SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Naphthalene	ND	50	g/L	5	V-05	SW-846 8260C	5/12/15	5/12/15 12:23	CMR
n-Propylbenzene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Styrene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,1,1,2-Tetrachloroethane	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,1,2,2-Tetrachloroethane	ND	2.5	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Tetrachloroethylene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Tetrahydrofuran	ND	10	g/L	5	V-20	SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Toluene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,2,3-Trichlorobenzene	ND	50	g/L	5	V-05	SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,2,4-Trichlorobenzene	ND	25	g/L	5	V-05	SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,1,1-Trichloroethane	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,1,2-Trichloroethane	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Trichloroethylene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Trichlorofluoromethane (Freon 11)	ND	10	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,2,3-Trichloropropane	ND	10	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,2,4-Trimethylbenzene	12	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
1,3,5-Trimethylbenzene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
Vinyl Chloride	ND	10	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
m+p Xylene	ND	10	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR
o-Xylene	ND	5.0	g/L	5		SW-846 8260C	5/12/15	5/12/15 12:23	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	105	70-130	5/12/15 12:23
Toluene-d8	97.7	70-130	5/12/15 12:23
4-Bromofluorobenzene	97.2	70-130	5/12/15 12:23

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-2

Sample ID: 15E0343-02

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	2.5	0.30	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Acenaphthylene (low)	ND	0.30	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Acetophenone	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Aniline	ND	5.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Anthracene (low)	0.86	0.20	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Benzo(a)anthracene (low)	0.075	0.050	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Benzo(a)pyrene (low)	ND	0.10	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Benzo(b)fluoranthene (low)	ND	0.050	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Benzo(k)fluoranthene (low)	ND	0.20	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Bis(2-chloroethoxy)methane	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Bis(2-chloroethyl)ether	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Bis(2-chloroisopropyl)ether	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
4-Bromophenylphenylether	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Butylbenzylphthalate	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
4-Chloroaniline	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
2-Chloronaphthalene	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
2-Chlorophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Chrysene (low)	ND	0.20	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Dibenzofuran	ND	5.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Di-n-butylphthalate	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
1,2-Dichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
1,3-Dichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
1,4-Dichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
3,3-Dichlorobenzidine	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
2,4-Dichlorophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Diethylphthalate	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
2,4-Dimethylphenol	16	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Dimethylphthalate	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
2,4-Dinitrophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
2,4-Dinitrotoluene	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
2,6-Dinitrotoluene	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Di-n-octylphthalate	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Fluoranthene (low)	ND	0.50	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Fluorene (low)	1.5	1.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Hexachlorobenzene	ND	2.0	g/L	1	RL-03	SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Hexachlorobutadiene	ND	2.0	g/L	1	RL-03	SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Hexachloroethane	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Isophorone	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
2-Methylnaphthalene (low)	55	25	g/L	25		SW-846 8270D	5/11/15	5/12/15 14:04	CJM

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-2

Sample ID: 15E0343-02

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
3/4-Methylphenol	58	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Naphthalene (low)	26	25	g/L	25		SW-846 8270D	5/11/15	5/12/15 14:04	CJM
Nitrobenzene	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
2-Nitrophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
4-Nitrophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Pentachlorophenol	ND	5.0	g/L	1	RL-03	SW-846 8270D	5/11/15	5/12/15 10:41	BGL
Phenanthrene (low)	2.1	0.050	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
Phenol	1200	200	g/L	20		SW-846 8270D	5/11/15	5/12/15 11:10	BGL
Pyrene (low)	ND	1.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 12:52	CJM
1,2,4-Trichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
2,4,5-Trichlorophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL
2,4,6-Trichlorophenol	ND	10	g/L	1		SW-846 8270D	5/11/15	5/12/15 10:41	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	45.4	15-110	5/12/15 10:41
Phenol-d6	36.6	15-110	5/12/15 10:41
Nitrobenzene-d5	97.4	30-130	5/12/15 10:41
Nitrobenzene-d5 (low)	64.8	30-130	5/12/15 12:52
2-Fluorobiphenyl	99.2	30-130	5/12/15 10:41
2-Fluorobiphenyl (low)	49.2	30-130	5/12/15 12:52
2,4,6-Tribromophenol	106	15-110	5/12/15 10:41
p-Terphenyl-d14	115	30-130	5/12/15 10:41
p-Terphenyl-d14 (low)	41.2	30-130	5/12/15 12:52

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-2

Sample ID: 15E0343-02

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	g/L	1	R-05	SW-846 8082A	5/11/15	5/12/15 12:43	PJG
Aroclor-1221 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:43	PJG
Aroclor-1232 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:43	PJG
Aroclor-1242 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:43	PJG
Aroclor-1248 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:43	PJG
Aroclor-1254 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:43	PJG
Aroclor-1260 [1]	ND	0.20	g/L	1	R-05	SW-846 8082A	5/11/15	5/12/15 12:43	PJG
Aroclor-1262 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:43	PJG
Aroclor-1268 [1]	ND	0.20	g/L	1		SW-846 8082A	5/11/15	5/12/15 12:43	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	41.9	30-150						5/12/15 12:43	
Decachlorobiphenyl [2]	40.4	30-150						5/12/15 12:43	
Tetrachloro-m-xylene [1]	66.8	30-150						5/12/15 12:43	
Tetrachloro-m-xylene [2]	71.6	30-150						5/12/15 12:43	

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-2

Sample ID: 15E0343-02

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	1.6	1.0	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:12	KSH
Arsenic	27	0.40	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:12	KSH
Barium	330	100	g/L	10		SW-846 6020A	5/11/15	5/12/15 12:14	KSH
Cadmium	ND	0.50	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:12	KSH
Chromium	0.020	0.010	mg/L	1		SW-846 6010C	5/11/15	5/12/15 17:01	MJH
Chromium	25	1.0	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:12	KSH
Chromium, Trivalent	0.024		mg/L	1		Tri Chrome Calc.	5/11/15	5/12/15 12:12	KSH
Copper	43	5.0	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:12	KSH
Iron	7.7	0.050	mg/L	1		SW-846 6010C	5/11/15	5/12/15 17:01	MJH
Lead	110	5.0	g/L	5		SW-846 6020A	5/11/15	5/12/15 13:50	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/13/15	5/14/15 10:29	SCB
Nickel	240	50	g/L	10		SW-846 6020A	5/11/15	5/12/15 12:14	KSH
Selenium	29	5.0	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:12	KSH
Silver	ND	0.50	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:12	KSH
Zinc	47	10	g/L	1		SW-846 6020A	5/11/15	5/12/15 12:12	KSH

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-2

Sample ID: 15E0343-02

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	1800	100	mg/L	100		SM21-22 4500 CL B	5/12/15	5/12/15 14:45	DJM
Chlorine, Residual	0.063	0.020	mg/L	1		SM21-22 4500 CL G	5/8/15	5/8/15 21:45	DJM
Cyanide	0.11	0.010	mg/L	1		SW-846 9014	5/12/15	5/12/15 12:45	VAK
Hexavalent Chromium	ND	0.0040	mg/L	1		SM21-22 3500 Cr B	5/8/15	5/8/15 23:20	DJM
Phenol	4.2	0.25	mg/L	5		EPA 420.1	5/11/15	5/11/15 11:30	LL
Total Suspended Solids	350	10	mg/L	1		SM21-22 2540D	5/11/15	5/11/15 12:45	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L	1		EPA 1664B	5/12/15	5/12/15 13:00	LL

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: MW-2

Sample ID: 15E0343-02

Start Date/Time: 5/8/2015 7:15:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/8/2015 8:10:00AM

Drinking Water Organics EPA 504.1

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2-Dibromoethane (EDB) (2)	ND	0.020	g/L	1		EPA 504.1	5/12/15	5/12/15 15:25	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,3-Dibromopropane (1)	68.0	*	70-130		S-12			5/12/15 15:25	
1,3-Dibromopropane (2)	101		70-130					5/12/15 15:25	

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: Trip Blank

Sampled: 5/8/2015 00:00

Sample ID: 15E0343-03

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	g/L	1	V-20	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
tert-Amyl Methyl Ether (TAME)	ND	0.50	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Benzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Bromobenzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Bromochloromethane	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Bromodichloromethane	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Bromoform	ND	5.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Bromomethane	ND	20	g/L	1	V-20	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
2-Butanone (MEK)	ND	10	g/L	1	V-20	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
n-Butylbenzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
sec-Butylbenzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
tert-Butylbenzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Carbon Disulfide	ND	5.0	g/L	1	RL-07	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Carbon Tetrachloride	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Chlorobenzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Chlorodibromomethane	ND	0.50	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Chloroethane	ND	2.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Chloroform	ND	2.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Chloromethane	ND	2.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
2-Chlorotoluene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
4-Chlorotoluene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	g/L	1	V-05	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,2-Dibromoethane (EDB)	ND	0.50	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Dibromomethane	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,2-Dichlorobenzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,3-Dichlorobenzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,4-Dichlorobenzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Dichlorodifluoromethane (Freon 12)	ND	2.0	g/L	1	V-05, L-04	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,1-Dichloroethane	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,2-Dichloroethane	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,1-Dichloroethylene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
cis-1,2-Dichloroethylene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
trans-1,2-Dichloroethylene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,2-Dichloropropane	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,3-Dichloropropane	ND	0.50	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
2,2-Dichloropropane	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,1-Dichloropropene	ND	0.50	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
cis-1,3-Dichloropropene	ND	0.40	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
trans-1,3-Dichloropropene	ND	2.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Diethyl Ether	ND	2.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Diisopropyl Ether (DIPE)	ND	0.50	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,4-Dioxane	ND	50	g/L	1	V-16, V-20	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Ethylbenzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR

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

Project Location: Seaport District, Boston, MA

Sample Description:

Work Order: 15E0343

Date Received: 5/8/2015

Field Sample #: Trip Blank

Sampled: 5/8/2015 00:00

Sample ID: 15E0343-03

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
2-Hexanone (MBK)	ND	10	g/L	1	V-20	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Isopropylbenzene (Cumene)	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
p-Isopropyltoluene (p-Cymene)	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Methylene Chloride	ND	5.0	g/L	1	RL-07	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
4-Methyl-2-pentanone (MIBK)	ND	10	g/L	1	V-20	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Naphthalene	ND	10	g/L	1	V-05	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
n-Propylbenzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Styrene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,1,1,2-Tetrachloroethane	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,1,2,2-Tetrachloroethane	ND	0.50	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Tetrachloroethylene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Tetrahydrofuran	ND	2.0	g/L	1	V-20	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Toluene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,2,3-Trichlorobenzene	ND	10	g/L	1	V-05	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,2,4-Trichlorobenzene	ND	5.0	g/L	1	V-05	SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,1,1-Trichloroethane	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,1,2-Trichloroethane	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Trichloroethylene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Trichlorofluoromethane (Freon 11)	ND	2.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,2,3-Trichloropropane	ND	2.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,2,4-Trimethylbenzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
1,3,5-Trimethylbenzene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
Vinyl Chloride	ND	2.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
m+p Xylene	ND	2.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR
o-Xylene	ND	1.0	g/L	1		SW-846 8260C	5/12/15	5/12/15 11:21	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	96.0	70-130	

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

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date	
15E0343-01 [MW-1]	B121484	100	05/12/15	
15E0343-02 [MW-2]	B121484	1000	05/12/15	

EPA 420.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01 [MW-1]	B121155	50.0	50.0	05/11/15
15E0343-02 [MW-2]	B121155	50.0	50.0	05/11/15

Prep Method: EPA 504 water-EPA 504.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01 [MW-1]	B121502	35.0	35.0	05/12/15
15E0343-02 [MW-2]	B121502	35.0	35.0	05/12/15

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date	
15E0343-01 [MW-1]	B121399	70.0	05/11/15	
15E0343-02 [MW-2]	B121399	50.0	05/11/15	

SM21-22 3500 Cr B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01 [MW-1]	B121339	50.0	50.0	05/08/15
15E0343-02 [MW-2]	B121339	50.0	50.0	05/08/15

SM21-22 4500 CL B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01 [MW-1]	B121560	100	100	05/12/15
15E0343-02 [MW-2]	B121560	100	100	05/12/15

SM21-22 4500 CL G

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01 [MW-1]	B121338	100	100	05/08/15
15E0343-02 [MW-2]	B121338	100	100	05/08/15

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01 [MW-1]	B121459	50.0	50.0	05/11/15
15E0343-02 [MW-2]	B121459	50.0	50.0	05/11/15

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

Sample Extraction Data

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01 [MW-1]	B121464	50.0	50.0	05/11/15
15E0343-02 [MW-2]	B121464	50.0	50.0	05/11/15

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01RE1 [MW-1]	B121637	6.00	6.00	05/13/15
15E0343-02RE1 [MW-2]	B121637	6.00	6.00	05/13/15

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01 [MW-1]	B121418	1000	10.0	05/11/15
15E0343-02 [MW-2]	B121418	1000	10.0	05/11/15

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01 [MW-1]	B121508	2.5	5.00	05/12/15
15E0343-02 [MW-2]	B121508	1	5.00	05/12/15
15E0343-03 [Trip Blank]	B121508	5	5.00	05/12/15

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01 [MW-1]	B121415	1000	1.00	05/11/15
15E0343-02 [MW-2]	B121415	1000	1.00	05/11/15
15E0343-02RE1 [MW-2]	B121415	1000	1.00	05/11/15

SW-846 9014

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01 [MW-1]	B121536	50.0	50.0	05/12/15
15E0343-02 [MW-2]	B121536	50.0	50.0	05/12/15

Prep Method: SW-846 3005A-Tri Chrome Calc.

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0343-01 [MW-1]	B121463	1.00	1.00	05/11/15
15E0343-02 [MW-2]	B121463	1.00	1.00	05/11/15

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

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121508 - SW-846 5030B										
Blank (B121508-BLK1)				Prepared & Analyzed: 05/12/15						
Acetone	ND	10	g/L							V-20
tert-Amyl Methyl Ether (TAME)	ND	0.50	g/L							
Benzene	ND	1.0	g/L							
Bromobenzene	ND	1.0	g/L							
Bromochloromethane	ND	1.0	g/L							
Bromodichloromethane	ND	1.0	g/L							
Bromoform	ND	1.0	g/L							
Bromomethane	ND	2.0	g/L							V-20
2-Butanone (MEK)	ND	10	g/L							V-20
n-Butylbenzene	ND	1.0	g/L							
sec-Butylbenzene	ND	1.0	g/L							
tert-Butylbenzene	ND	1.0	g/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	g/L							
Carbon Disulfide	ND	5.0	g/L							
Carbon Tetrachloride	ND	1.0	g/L							
Chlorobenzene	ND	1.0	g/L							
Chlorodibromomethane	ND	0.50	g/L							
Chloroethane	ND	2.0	g/L							
Chloroform	ND	2.0	g/L							
Chloromethane	ND	2.0	g/L							
2-Chlorotoluene	ND	1.0	g/L							
4-Chlorotoluene	ND	1.0	g/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	g/L							V-05
1,2-Dibromoethane (EDB)	ND	0.50	g/L							
Dibromomethane	ND	1.0	g/L							
1,2-Dichlorobenzene	ND	1.0	g/L							
1,3-Dichlorobenzene	ND	1.0	g/L							
1,4-Dichlorobenzene	ND	1.0	g/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	g/L							L-04, V-05
1,1-Dichloroethane	ND	1.0	g/L							
1,2-Dichloroethane	ND	1.0	g/L							
1,1-Dichloroethylene	ND	1.0	g/L							
cis-1,2-Dichloroethylene	ND	1.0	g/L							
trans-1,2-Dichloroethylene	ND	1.0	g/L							
1,2-Dichloropropane	ND	1.0	g/L							
1,3-Dichloropropane	ND	0.50	g/L							
2,2-Dichloropropane	ND	1.0	g/L							
1,1-Dichloropropene	ND	0.50	g/L							
cis-1,3-Dichloropropene	ND	0.40	g/L							
trans-1,3-Dichloropropene	ND	0.40	g/L							
Diethyl Ether	ND	2.0	g/L							
Diisopropyl Ether (DIPE)	ND	0.50	g/L							
1,4-Dioxane	ND	50	g/L							V-16, V-20
Ethylbenzene	ND	1.0	g/L							
Hexachlorobutadiene	ND	0.50	g/L							
2-Hexanone (MBK)	ND	10	g/L							V-20
Isopropylbenzene (Cumene)	ND	1.0	g/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	g/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	g/L							
Methylene Chloride	ND	5.0	g/L							
4-Methyl-2-pentanone (MIBK)	ND	10	g/L							V-20
Naphthalene	ND	2.0	g/L							V-05

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121508 - SW-846 5030B										
Blank (B121508-BLK1)										
Prepared & Analyzed: 05/12/15										
n-Propylbenzene	ND	1.0	g/L							
Styrene	ND	1.0	g/L							
1,1,1,2-Tetrachloroethane	ND	1.0	g/L							
1,1,2,2-Tetrachloroethane	ND	0.50	g/L							
Tetrachloroethylene	ND	1.0	g/L							
Tetrahydrofuran	ND	2.0	g/L							V-20
Toluene	ND	1.0	g/L							
1,2,3-Trichlorobenzene	ND	2.0	g/L							V-05
1,2,4-Trichlorobenzene	ND	1.0	g/L							V-05
1,1,1-Trichloroethane	ND	1.0	g/L							
1,1,2-Trichloroethane	ND	1.0	g/L							
Trichloroethylene	ND	1.0	g/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	g/L							
1,2,3-Trichloropropane	ND	2.0	g/L							
1,2,4-Trimethylbenzene	ND	1.0	g/L							
1,3,5-Trimethylbenzene	ND	1.0	g/L							
Vinyl Chloride	ND	2.0	g/L							
m+p Xylene	ND	2.0	g/L							
o-Xylene	ND	1.0	g/L							
Surrogate: 1,2-Dichloroethane-d4	26.4		µg/L	25.0		106	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.9		g/L	25.0		95.8	70-130			
LCS (B121508-BS1)										
Prepared & Analyzed: 05/12/15										
Acetone	218	10	g/L	100		218	* 40-160			L-05, V-06 †
tert-Amyl Methyl Ether (TAME)	12.4	0.50	g/L	10.0		124	70-130			
Benzene	10.9	1.0	g/L	10.0		109	70-130			
Bromobenzene	9.87	1.0	g/L	10.0		98.7	70-130			
Bromochloromethane	12.0	1.0	g/L	10.0		120	70-130			
Bromodichloromethane	10.8	1.0	g/L	10.0		108	70-130			
Bromoform	9.58	1.0	g/L	10.0		95.8	70-130			
Bromomethane	6.87	2.0	g/L	10.0		68.7	40-160			V-06, L-14 †
2-Butanone (MEK)	188	10	g/L	100		188	* 40-160			L-05, V-06 †
n-Butylbenzene	11.1	1.0	g/L	10.0		111	70-130			
sec-Butylbenzene	11.7	1.0	g/L	10.0		117	70-130			
tert-Butylbenzene	11.2	1.0	g/L	10.0		112	70-130			
tert-Butyl Ethyl Ether (TBEE)	12.0	0.50	g/L	10.0		120	70-130			
Carbon Disulfide	10.4	5.0	g/L	10.0		104	70-130			
Carbon Tetrachloride	10.7	1.0	g/L	10.0		107	70-130			
Chlorobenzene	10.2	1.0	g/L	10.0		102	70-130			
Chlorodibromomethane	10.8	0.50	g/L	10.0		108	70-130			
Chloroethane	9.07	2.0	g/L	10.0		90.7	70-130			
Chloroform	10.8	2.0	g/L	10.0		108	70-130			
Chloromethane	5.61	2.0	g/L	10.0		56.1	40-160			L-14 †
2-Chlorotoluene	10.4	1.0	g/L	10.0		104	70-130			
4-Chlorotoluene	10.6	1.0	g/L	10.0		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.74	2.0	g/L	10.0		87.4	70-130			V-05
1,2-Dibromoethane (EDB)	12.0	0.50	g/L	10.0		120	70-130			
Dibromomethane	11.6	1.0	g/L	10.0		116	70-130			
1,2-Dichlorobenzene	10.2	1.0	g/L	10.0		102	70-130			
1,3-Dichlorobenzene	10.6	1.0	g/L	10.0		106	70-130			
1,4-Dichlorobenzene	10.0	1.0	g/L	10.0		100	70-130			

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

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121508 - SW-846 5030B										
LCS (B121508-BS1)				Prepared & Analyzed: 05/12/15						
Dichlorodifluoromethane (Freon 12)	2.72	2.0	g/L	10.0		27.2	40-160			L-04, V-05
1,1-Dichloroethane	11.1	1.0	g/L	10.0		111	70-130			
1,2-Dichloroethane	11.0	1.0	g/L	10.0		110	70-130			
1,1-Dichloroethylene	10.4	1.0	g/L	10.0		104	70-130			
cis-1,2-Dichloroethylene	10.9	1.0	g/L	10.0		109	70-130			
trans-1,2-Dichloroethylene	11.7	1.0	g/L	10.0		117	70-130			
1,2-Dichloropropane	10.9	1.0	g/L	10.0		109	70-130			
1,3-Dichloropropane	11.2	0.50	g/L	10.0		112	70-130			
2,2-Dichloropropane	11.9	1.0	g/L	10.0		119	70-130			
1,1-Dichloropropene	11.9	0.50	g/L	10.0		119	70-130			
cis-1,3-Dichloropropene	10.2	0.40	g/L	10.0		102	70-130			
trans-1,3-Dichloropropene	10.6	0.40	g/L	10.0		106	70-130			
Diethyl Ether	11.5	2.0	g/L	10.0		115	70-130			
Diisopropyl Ether (DIPE)	11.4	0.50	g/L	10.0		114	70-130			
1,4-Dioxane	127	50	g/L	100		127	40-160			V-06, V-16
Ethylbenzene	10.8	1.0	g/L	10.0		108	70-130			
Hexachlorobutadiene	98.6	0.50	g/L	10.0		98.6	70-130			
2-Hexanone (MBK)	192	10	g/L	100		192	40-160			L-02, V-06
Isopropylbenzene (Cumene)	11.0	1.0	g/L	10.0		110	70-130			
p-Isopropyltoluene (p-Cymene)	11.2	1.0	g/L	10.0		112	70-130			
Methyl tert-Butyl Ether (MTBE)	12.4	1.0	g/L	10.0		124	70-130			
Methylene Chloride	11.0	5.0	g/L	10.0		110	70-130			
4-Methyl-2-pentanone (MIBK)	149	10	g/L	100		149	40-160			L-14, V-06
Naphthalene	7.59	2.0	g/L	10.0		75.9	70-130			V-05
n-Propylbenzene	11.0	1.0	g/L	10.0		110	70-130			
Styrene	10.8	1.0	g/L	10.0		108	70-130			
1,1,1,2-Tetrachloroethane	10.4	1.0	g/L	10.0		104	70-130			
1,1,2,2-Tetrachloroethane	11.9	0.50	g/L	10.0		119	70-130			
Tetrachloroethylene	10.5	1.0	g/L	10.0		105	70-130			
Tetrahydrofuran	14.0	2.0	g/L	10.0		140	70-130			L-02, V-06
Toluene	11.1	1.0	g/L	10.0		111	70-130			
1,2,3-Trichlorobenzene	8.23	2.0	g/L	10.0		82.3	70-130			V-05
1,2,4-Trichlorobenzene	7.19	1.0	g/L	10.0		71.9	70-130			V-05
1,1,1-Trichloroethane	10.9	1.0	g/L	10.0		109	70-130			
1,1,2-Trichloroethane	11.3	1.0	g/L	10.0		113	70-130			
Trichloroethylene	9.89	1.0	g/L	10.0		98.9	70-130			
Trichlorofluoromethane (Freon 11)	9.82	2.0	g/L	10.0		98.2	70-130			
1,2,3-Trichloropropane	12.2	2.0	g/L	10.0		122	70-130			
1,2,4-Trimethylbenzene	11.2	1.0	g/L	10.0		112	70-130			
1,3,5-Trimethylbenzene	10.9	1.0	g/L	10.0		109	70-130			
Vinyl Chloride	7.24	2.0	g/L	10.0		72.4	70-130			
m+p Xylene	21.8	2.0	g/L	20.0		109	70-130			
o-Xylene	11.1	1.0	g/L	10.0		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	26.0		µg/L	25.0		104	70-130			
Surrogate: Toluene-d8	25.7		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	25.1		g/L	25.0		101	70-130			

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121508 - SW-846 5030B										
LCS Dup (B121508-BSD1)				Prepared & Analyzed: 05/12/15						
Acetone	207	10	g/L	100		207	40-160	4.97	20	L-05, V-06
tert-Amyl Methyl Ether (TAME)	12.1	0.50	g/L	10.0		121	70-130	2.28	20	
Benzene	10.7	1.0	g/L	10.0		107	70-130	1.76	20	
Bromobenzene	9.92	1.0	g/L	10.0		99.2	70-130	0.505	20	
Bromochloromethane	11.6	1.0	g/L	10.0		116	70-130	3.23	20	
Bromodichloromethane	10.4	1.0	g/L	10.0		104	70-130	3.87	20	
Bromoform	9.45	1.0	g/L	10.0		94.5	70-130	1.37	20	
Bromomethane	7.57	2.0	g/L	10.0		75.7	40-160	9.70	20	V-06
2-Butanone (MEK)	184	10	g/L	100		184	40-160	2.34	20	L-05, V-06
n-Butylbenzene	10.7	1.0	g/L	10.0		107	70-130	3.30	20	
sec-Butylbenzene	11.3	1.0	g/L	10.0		113	70-130	3.30	20	
tert-Butylbenzene	11.0	1.0	g/L	10.0		110	70-130	1.54	20	
tert-Butyl Ethyl Ether (TBEE)	11.8	0.50	g/L	10.0		118	70-130	1.18	20	
Carbon Disulfide	10.2	5.0	g/L	10.0		102	70-130	1.65	20	
Carbon Tetrachloride	10.9	1.0	g/L	10.0		109	70-130	2.03	20	
Chlorobenzene	10.3	1.0	g/L	10.0		103	70-130	0.779	20	
Chlorodibromomethane	10.6	0.50	g/L	10.0		106	70-130	1.31	20	
Chloroethane	9.42	2.0	g/L	10.0		94.2	70-130	3.79	20	
Chloroform	10.6	2.0	g/L	10.0		106	70-130	1.86	20	
Chloromethane	5.51	2.0	g/L	10.0		55.1	40-160	1.80	20	L-14
2-Chlorotoluene	10.6	1.0	g/L	10.0		106	70-130	1.43	20	
4-Chlorotoluene	10.6	1.0	g/L	10.0		106	70-130	0.377	20	
1,2-Dibromo-3-chloropropane (DBCP)	9.27	2.0	g/L	10.0		92.7	70-130	5.89	20	V-05
1,2-Dibromoethane (EDB)	12.0	0.50	g/L	10.0		120	70-130	0.00	20	
Dibromomethane	11.6	1.0	g/L	10.0		116	70-130	0.0860	20	
1,2-Dichlorobenzene	10.2	1.0	g/L	10.0		102	70-130	0.196	20	
1,3-Dichlorobenzene	10.4	1.0	g/L	10.0		104	70-130	2.67	20	
1,4-Dichlorobenzene	9.91	1.0	g/L	10.0		99.1	70-130	1.40	20	
Dichlorodifluoromethane (Freon 12)	2.56	2.0	g/L	10.0		25.6	40-160	6.06	20	L-04, V-05
1,1-Dichloroethane	10.9	1.0	g/L	10.0		109	70-130	1.99	20	
1,2-Dichloroethane	11.0	1.0	g/L	10.0		110	70-130	0.363	20	
1,1-Dichloroethylene	9.96	1.0	g/L	10.0		99.6	70-130	4.80	20	
cis-1,2-Dichloroethylene	10.7	1.0	g/L	10.0		107	70-130	2.03	20	
trans-1,2-Dichloroethylene	11.5	1.0	g/L	10.0		115	70-130	1.90	20	
1,2-Dichloropropane	10.2	1.0	g/L	10.0		102	70-130	7.30	20	
1,3-Dichloropropane	11.2	0.50	g/L	10.0		112	70-130	0.179	20	
2,2-Dichloropropane	11.1	1.0	g/L	10.0		111	70-130	6.71	20	
1,1-Dichloropropene	11.7	0.50	g/L	10.0		117	70-130	1.36	20	
cis-1,3-Dichloropropene	10.1	0.40	g/L	10.0		101	70-130	1.08	20	
trans-1,3-Dichloropropene	10.8	0.40	g/L	10.0		108	70-130	2.24	20	
Diethyl Ether	11.2	2.0	g/L	10.0		112	70-130	2.81	20	
Diisopropyl Ether (DIPE)	11.6	0.50	g/L	10.0		116	70-130	1.48	20	
1,4-Dioxane	139	50	g/L	100		139	40-160	8.95	20	V-06, V-16
Ethylbenzene	10.9	1.0	g/L	10.0		109	70-130	1.01	20	
Hexachlorobutadiene	10.3	0.50	g/L	10.0		103	70-130	4.46	20	
2-Hexanone (MBK)	184	10	g/L	100		184	40-160	4.62	20	L-02, V-06
Isopropylbenzene (Cumene)	11.0	1.0	g/L	10.0		110	70-130	0.181	20	
p-Isopropyltoluene (p-Cymene)	10.9	1.0	g/L	10.0		109	70-130	3.07	20	
Methyl tert-Butyl Ether (MTBE)	12.2	1.0	g/L	10.0		122	70-130	1.78	20	
Methylene Chloride	10.9	5.0	g/L	10.0		109	70-130	1.37	20	
4-Methyl-2-pentanone (MIBK)	147	10	g/L	100		147	40-160	1.61	20	L-14, V-06
Naphthalene	7.73	2.0	g/L	10.0		77.3	70-130	1.83	20	V-05

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

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121508 - SW-846 5030B										
LCS Dup (B121508-BSD1)				Prepared & Analyzed: 05/12/15						
n-Propylbenzene	10.9	1.0	g/L	10.0		109	70-130	0.820	20	
Styrene	10.8	1.0	g/L	10.0		108	70-130	0.370	20	
1,1,1,2-Tetrachloroethane	10.8	1.0	g/L	10.0		108	70-130	3.78	20	
1,1,2,2-Tetrachloroethane	11.8	0.50	g/L	10.0		118	70-130	1.27	20	
Tetrachloroethylene	10.1	1.0	g/L	10.0		101	70-130	4.09	20	
Tetrahydrofuran	13.7	2.0	g/L	10.0		137	70-130	1.95	20	L-02, V-06
Toluene	10.7	1.0	g/L	10.0		107	70-130	3.67	20	
1,2,3-Trichlorobenzene	8.27	2.0	g/L	10.0		82.7	70-130	0.485	20	V-05
1,2,4-Trichlorobenzene	7.20	1.0	g/L	10.0		72.0	70-130	0.139	20	V-05
1,1,1-Trichloroethane	10.9	1.0	g/L	10.0		109	70-130	0.276	20	
1,1,2-Trichloroethane	11.0	1.0	g/L	10.0		110	70-130	3.23	20	
Trichloroethylene	10.3	1.0	g/L	10.0		103	70-130	3.67	20	
Trichlorofluoromethane (Freon 11)	9.52	2.0	g/L	10.0		95.2	70-130	3.10	20	
1,2,3-Trichloropropane	11.8	2.0	g/L	10.0		118	70-130	3.09	20	
1,2,4-Trimethylbenzene	10.9	1.0	g/L	10.0		109	70-130	3.07	20	
1,3,5-Trimethylbenzene	10.9	1.0	g/L	10.0		109	70-130	0.183	20	
Vinyl Chloride	6.73	2.0	g/L	10.0		67.3	70-130	7.30	20	L-07
m+p Xylene	21.6	2.0	g/L	20.0		108	70-130	0.968	20	
o-Xylene	10.8	1.0	g/L	10.0		108	70-130	2.29	20	
Surrogate: 1,2-Dichloroethane-d4	26.0		µg/L	25.0		104	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		g/L	25.0		101	70-130			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B121415 - SW-846 3510C

Blank (B121415-BLK1)

Prepared: 05/11/15 Analyzed: 05/12/15

Acenaphthene (low)	ND	0.30	g/L							
Acenaphthylene (low)	ND	0.30	g/L							
Acetophenone	ND	10	g/L							
Aniline	ND	5.0	g/L							
Anthracene (low)	ND	0.20	g/L							
Benzo(a)anthracene (low)	ND	0.050	g/L							
Benzo(a)pyrene (low)	ND	0.10	g/L							
Benzo(b)fluoranthene (low)	ND	0.050	g/L							
Benzo(g,h,i)perylene (low)	ND	0.50	g/L							
Benzo(k)fluoranthene (low)	ND	0.20	g/L							
Bis(2-chloroethoxy)methane	ND	10	g/L							
Bis(2-chloroethyl)ether	ND	10	g/L							
Bis(2-chloroisopropyl)ether	ND	10	g/L							
Bis(2-Ethylhexyl)phthalate	ND	10	g/L							
4-Bromophenylphenylether	ND	10	g/L							
Butylbenzylphthalate	ND	10	g/L							
4-Chloroaniline	ND	10	g/L							
2-Chloronaphthalene	ND	10	g/L							
2-Chlorophenol	ND	10	g/L							
Chrysene (low)	ND	0.20	g/L							
Dibenz(a,h)anthracene (low)	ND	0.20	g/L							
Dibenzofuran	ND	5.0	g/L							
Di-n-butylphthalate	ND	10	g/L							
1,2-Dichlorobenzene	ND	5.0	g/L							
1,3-Dichlorobenzene	ND	5.0	g/L							
1,4-Dichlorobenzene	ND	5.0	g/L							
3,3-Dichlorobenzidine	ND	10	g/L							
2,4-Dichlorophenol	ND	10	g/L							
Diethylphthalate	ND	10	g/L							
2,4-Dimethylphenol	ND	10	g/L							
Dimethylphthalate	ND	10	g/L							
2,4-Dinitrophenol	ND	10	g/L							
2,4-Dinitrotoluene	ND	10	g/L							
2,6-Dinitrotoluene	ND	10	g/L							
Di-n-octylphthalate	ND	10	g/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	g/L							
Fluoranthene (low)	ND	0.50	g/L							
Fluorene (low)	ND	1.0	g/L							
Hexachlorobenzene	ND	10	g/L							RL-03
Hexachlorobutadiene	ND	10	g/L							RL-03
Hexachloroethane	ND	10	g/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	g/L							
Isophorone	ND	10	g/L							
2-Methylnaphthalene (low)	ND	1.0	g/L							
2-Methylphenol	ND	10	g/L							
3/4-Methylphenol	ND	10	g/L							
Naphthalene (low)	ND	1.0	g/L							
Nitrobenzene	ND	10	g/L							
2-Nitrophenol	ND	10	g/L							
4-Nitrophenol	ND	10	g/L							
Pentachlorophenol	ND	10	g/L							RL-03
Phenanthrene (low)	ND	0.050	g/L							

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B121415 - SW-846 3510C
Blank (B121415-BLK1)

Prepared: 05/11/15 Analyzed: 05/12/15

Phenol	ND	10	g/L							
Pyrene (low)	ND	1.0	g/L							
1,2,4-Trichlorobenzene	ND	5.0	g/L							
2,4,5-Trichlorophenol	ND	10	g/L							
2,4,6-Trichlorophenol	ND	10	g/L							
Surrogate: 2-Fluorophenol	72.3		µg/L	200		36.1	15-110			
Surrogate: Phenol-d6	47.3		µg/L	200		23.6	15-110			
Surrogate: Nitrobenzene-d5	83.2		µg/L	100		83.2	30-130			
Surrogate: Nitrobenzene-d5 (low)	52.8		µg/L	100		52.8	30-130			
Surrogate: 2-Fluorobiphenyl	80.1		µg/L	100		80.1	30-130			
Surrogate: 2-Fluorobiphenyl (low)	39.1		µg/L	100		39.1	30-130			
Surrogate: 2,4,6-Tribromophenol	172		µg/L	200		86.0	15-110			
Surrogate: p-Terphenyl-d14	90.2		µg/L	100		90.2	30-130			
Surrogate: p-Terphenyl-d14 (low)	42.3		g/L	100		42.3	30-130			

LCS (B121415-BS1)

Prepared: 05/11/15 Analyzed: 05/12/15

Acenaphthene	43.3	5.0	g/L	50.0		86.7	40-140			
Acenaphthene (low)	43.2	7.5	g/L	50.0		86.4	40-140			
Acenaphthylene	43.1	5.0	g/L	50.0		86.1	40-140			
Acenaphthylene (low)	43.3	7.5	g/L	50.0		86.6	40-140			
Acetophenone	44.4	10	g/L	50.0		88.8	40-140			
Aniline	34.2	5.0	g/L	50.0		68.4	40-140			
Anthracene	44.6	5.0	g/L	50.0		89.1	40-140			
Anthracene (low)	41.7	5.0	g/L	50.0		83.4	40-140			
Benzo(a)anthracene	45.7	5.0	g/L	50.0		91.4	40-140			
Benzo(a)anthracene (low)	42.5	1.2	g/L	50.0		85.0	40-140			
Benzo(a)pyrene	45.9	5.0	g/L	50.0		91.9	40-140			
Benzo(a)pyrene (low)	43.7	2.5	g/L	50.0		87.4	40-140			
Benzo(b)fluoranthene	45.4	5.0	g/L	50.0		90.8	40-140			
Benzo(b)fluoranthene (low)	44.0	1.2	g/L	50.0		88.0	40-140			
Benzo(g,h,i)perylene	44.3	5.0	g/L	50.0		88.6	40-140			
Benzo(g,h,i)perylene (low)	45.2	12	g/L	50.0		90.4	40-140			
Benzo(k)fluoranthene	46.0	5.0	g/L	50.0		92.0	40-140			
Benzo(k)fluoranthene (low)	41.9	5.0	g/L	50.0		83.8	40-140			
Bis(2-chloroethoxy)methane	42.1	10	g/L	50.0		84.1	40-140			
Bis(2-chloroethyl)ether	42.9	10	g/L	50.0		85.8	40-140			
Bis(2-chloroisopropyl)ether	37.7	10	g/L	50.0		75.4	40-140			
Bis(2-Ethylhexyl)phthalate	48.8	10	g/L	50.0		97.5	40-140			
4-Bromophenylphenylether	44.1	10	g/L	50.0		88.3	40-140			
Butylbenzylphthalate	47.6	10	g/L	50.0		95.2	40-140			
4-Chloroaniline	48.6	10	g/L	50.0		97.3	15-140			
2-Chloronaphthalene	37.2	10	g/L	50.0		74.3	40-140			
2-Chlorophenol	36.6	10	g/L	50.0		73.2	30-130			
Chrysene	43.8	5.0	g/L	50.0		87.5	40-140			
Chrysene (low)	42.5	5.0	g/L	50.0		85.0	40-140			
Dibenz(a,h)anthracene	45.1	5.0	g/L	50.0		90.2	40-140			
Dibenz(a,h)anthracene (low)	47.6	5.0	g/L	50.0		95.2	40-140			
Dibenzofuran	45.4	5.0	g/L	50.0		90.8	40-140			
Di-n-butylphthalate	47.9	10	g/L	50.0		95.8	40-140			
1,2-Dichlorobenzene	37.7	5.0	g/L	50.0		75.4	40-140			
1,3-Dichlorobenzene	35.7	5.0	g/L	50.0		71.5	40-140			
1,4-Dichlorobenzene	36.2	5.0	g/L	50.0		72.4	40-140			

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121415 - SW-846 3510C										
LCS (B121415-BS1)										
Prepared: 05/11/15 Analyzed: 05/12/15										
3,3-Dichlorobenzidine	62.7	10	g/L	50.0		125	40-140			
2,4-Dichlorophenol	42.8	10	g/L	50.0		85.6	30-130			
Diethylphthalate	47.9	10	g/L	50.0		95.7	40-140			
2,4-Dimethylphenol	40.7	10	g/L	50.0		81.4	30-130			
Dimethylphthalate	48.3	10	g/L	50.0		96.6	40-140			
2,4-Dinitrophenol	34.6	10	g/L	50.0		69.1	15-140			
2,4-Dinitrotoluene	49.7	10	g/L	50.0		99.5	40-140			
2,6-Dinitrotoluene	49.3	10	g/L	50.0		98.6	40-140			
Di-n-octylphthalate	46.2	10	g/L	50.0		92.4	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	45.8	10	g/L	50.0		91.7	40-140			
Fluoranthene	47.6	5.0	g/L	50.0		95.2	40-140			
Fluoranthene (low)	43.3	12	g/L	50.0		86.6	40-140			
Fluorene	45.4	5.0	g/L	50.0		90.8	40-140			
Fluorene (low)	44.0	25	g/L	50.0		87.9	40-140			
Hexachlorobenzene	44.8	10	g/L	50.0		89.7	40-140			
Hexachlorobutadiene	38.9	10	g/L	50.0		77.8	40-140			
Hexachloroethane	36.4	10	g/L	50.0		72.8	40-140			
Indeno(1,2,3-cd)pyrene	46.0	5.0	g/L	50.0		92.0	40-140			
Indeno(1,2,3-cd)pyrene (low)	46.4	5.0	g/L	50.0		92.8	40-140			
Isophorone	46.9	10	g/L	50.0		93.7	40-140			
2-Methylnaphthalene	40.4	5.0	g/L	50.0		80.9	40-140			
2-Methylnaphthalene (low)	39.2	25	g/L	50.0		78.4	40-140			
2-Methylphenol	31.6	10	g/L	50.0		63.2	30-130			
3/4-Methylphenol	29.1	10	g/L	50.0		58.3	30-130			
Naphthalene	38.3	5.0	g/L	50.0		76.6	40-140			
Naphthalene (low)	38.1	25	g/L	50.0		76.2	40-140			
Nitrobenzene	45.2	10	g/L	50.0		90.4	40-140			
2-Nitrophenol	40.8	10	g/L	50.0		81.7	30-130			
4-Nitrophenol	26.8	10	g/L	50.0		53.5	15-140			
Pentachlorophenol	32.8	10	g/L	50.0		65.6	30-130			
Phenanthrene	45.7	5.0	g/L	50.0		91.4	40-140			
Phenanthrene (low)	40.6	1.2	g/L	50.0		81.1	40-140			
Phenol	15.3	10	g/L	50.0		30.6	15-140			
Pyrene	43.5	5.0	g/L	50.0		86.9	40-140			
Pyrene (low)	43.3	25	g/L	50.0		86.6	40-140			
1,2,4-Trichlorobenzene	38.8	5.0	g/L	50.0		77.6	40-140			
2,4,5-Trichlorophenol	42.2	10	g/L	50.0		84.3	30-130			
2,4,6-Trichlorophenol	43.8	10	g/L	50.0		87.6	30-130			
Surrogate: 2-Fluorophenol	80.1		µg/L	200		40.0	15-110			
Surrogate: Phenol-d6	52.8		µg/L	200		26.4	15-110			
Surrogate: Nitrobenzene-d5	89.8		µg/L	100		89.8	30-130			
Surrogate: Nitrobenzene-d5 (low)	60.0		µg/L	100		60.0	30-130			
Surrogate: 2-Fluorobiphenyl	91.4		µg/L	100		91.4	30-130			
Surrogate: 2-Fluorobiphenyl (low)	64.4		µg/L	100		64.4	30-130			
Surrogate: 2,4,6-Tribromophenol	204		µg/L	200		102	15-110			
Surrogate: p-Terphenyl-d14	93.5		µg/L	100		93.5	30-130			
Surrogate: p-Terphenyl-d14 (low)	46.3		g/L	100		46.3	30-130			

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121415 - SW-846 3510C										
LCS Dup (B121415-BSD1)										
					Prepared: 05/11/15 Analyzed: 05/12/15					
Acenaphthene	44.4	5.0	g/L	50.0		88.8	40-140	2.48	20	
Acenaphthene (low)	45.9	7.5	g/L	50.0		91.8	40-140	6.12	20	
Acenaphthylene	43.8	5.0	g/L	50.0		87.6	40-140	1.68	20	
Acenaphthylene (low)	46.1	7.5	g/L	50.0		92.2	40-140	6.21	20	
Acetophenone	45.6	10	g/L	50.0		91.2	40-140	2.64	20	
Aniline	31.8	5.0	g/L	50.0		63.6	40-140	7.33	20	
Anthracene	45.4	5.0	g/L	50.0		90.8	40-140	1.82	20	
Anthracene (low)	44.4	5.0	g/L	50.0		88.9	40-140	6.38	20	
Benzo(a)anthracene	46.6	5.0	g/L	50.0		93.1	40-140	1.91	20	
Benzo(a)anthracene (low)	45.5	1.2	g/L	50.0		91.0	40-140	6.88	20	
Benzo(a)pyrene	47.6	5.0	g/L	50.0		95.2	40-140	3.57	20	
Benzo(a)pyrene (low)	46.8	2.5	g/L	50.0		93.5	40-140	6.69	20	
Benzo(b)fluoranthene	47.2	5.0	g/L	50.0		94.3	40-140	3.76	20	
Benzo(b)fluoranthene (low)	46.7	1.2	g/L	50.0		93.4	40-140	5.96	20	
Benzo(g,h,i)perylene	45.4	5.0	g/L	50.0		90.8	40-140	2.50	20	
Benzo(g,h,i)perylene (low)	47.9	12	g/L	50.0		95.8	40-140	5.85	20	
Benzo(k)fluoranthene	47.2	5.0	g/L	50.0		94.4	40-140	2.58	20	
Benzo(k)fluoranthene (low)	44.6	5.0	g/L	50.0		89.2	40-140	6.30	20	
Bis(2-chloroethoxy)methane	43.8	10	g/L	50.0		87.6	40-140	4.03	20	
Bis(2-chloroethyl)ether	44.2	10	g/L	50.0		88.4	40-140	3.01	20	
Bis(2-chloroisopropyl)ether	39.6	10	g/L	50.0		79.1	40-140	4.74	20	
Bis(2-Ethylhexyl)phthalate	49.1	10	g/L	50.0		98.2	40-140	0.695	20	
4-Bromophenylphenylether	46.8	10	g/L	50.0		93.5	40-140	5.81	20	
Butylbenzylphthalate	48.9	10	g/L	50.0		97.8	40-140	2.72	20	
4-Chloroaniline	45.4	10	g/L	50.0		90.7	15-140	7.00	20	
2-Chloronaphthalene	38.1	10	g/L	50.0		76.2	40-140	2.47	20	
2-Chlorophenol	37.0	10	g/L	50.0		74.0	30-130	1.06	20	
Chrysene	43.0	5.0	g/L	50.0		86.0	40-140	1.68	20	
Chrysene (low)	45.4	5.0	g/L	50.0		90.7	40-140	6.55	20	
Dibenz(a,h)anthracene	46.4	5.0	g/L	50.0		92.8	40-140	2.84	20	
Dibenz(a,h)anthracene (low)	50.6	5.0	g/L	50.0		101	40-140	6.26	20	
Dibenzofuran	46.9	5.0	g/L	50.0		93.8	40-140	3.29	20	
Di-n-butylphthalate	50.0	10	g/L	50.0		100	40-140	4.23	20	
1,2-Dichlorobenzene	38.3	5.0	g/L	50.0		76.5	40-140	1.53	20	
1,3-Dichlorobenzene	35.8	5.0	g/L	50.0		71.7	40-140	0.279	20	
1,4-Dichlorobenzene	36.6	5.0	g/L	50.0		73.2	40-140	1.07	20	
3,3-Dichlorobenzidine	63.3	10	g/L	50.0		127	40-140	0.825	20	
2,4-Dichlorophenol	43.2	10	g/L	50.0		86.4	30-130	0.977	20	
Diethylphthalate	49.9	10	g/L	50.0		99.8	40-140	4.17	20	
2,4-Dimethylphenol	40.3	10	g/L	50.0		80.6	30-130	0.963	20	
Dimethylphthalate	49.4	10	g/L	50.0		98.8	40-140	2.23	20	
2,4-Dinitrophenol	34.3	10	g/L	50.0		68.5	15-140	0.872	20	
2,4-Dinitrotoluene	50.9	10	g/L	50.0		102	40-140	2.38	20	
2,6-Dinitrotoluene	51.0	10	g/L	50.0		102	40-140	3.33	20	
Di-n-octylphthalate	48.1	10	g/L	50.0		96.1	40-140	3.97	20	
1,2-Diphenylhydrazine (as Azobenzene)	48.1	10	g/L	50.0		96.2	40-140	4.77	20	
Fluoranthene	47.1	5.0	g/L	50.0		94.1	40-140	1.10	20	
Fluoranthene (low)	46.1	12	g/L	50.0		92.2	40-140	6.21	20	
Fluorene	46.7	5.0	g/L	50.0		93.5	40-140	2.91	20	
Fluorene (low)	46.6	25	g/L	50.0		93.1	40-140	5.75	20	
Hexachlorobenzene	46.9	10	g/L	50.0		93.7	40-140	4.43	20	
Hexachlorobutadiene	40.7	10	g/L	50.0		81.4	40-140	4.57	20	

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121415 - SW-846 3510C										
LCS Dup (B121415-BSD1)										
					Prepared: 05/11/15 Analyzed: 05/12/15					
Hexachloroethane	37.9	10	g/L	50.0		75.9	40-140	4.09	20	
Indeno(1,2,3-cd)pyrene	47.3	5.0	g/L	50.0		94.7	40-140	2.83	20	
Indeno(1,2,3-cd)pyrene (low)	49.2	5.0	g/L	50.0		98.4	40-140	5.86	20	
Isophorone	49.2	10	g/L	50.0		98.5	40-140	4.93	20	
2-Methylnaphthalene	42.1	5.0	g/L	50.0		84.1	40-140	3.90	20	
2-Methylnaphthalene (low)	42.5	25	g/L	50.0		85.0	40-140	8.01	20	
2-Methylphenol	31.9	10	g/L	50.0		63.9	30-130	1.07	20	
3/4-Methylphenol	29.7	10	g/L	50.0		59.4	30-130	1.87	20	
Naphthalene	39.1	5.0	g/L	50.0		78.2	40-140	2.04	20	
Naphthalene (low)	40.5	25	g/L	50.0		81.0	40-140	6.04	20	
Nitrobenzene	45.9	10	g/L	50.0		91.8	40-140	1.47	20	
2-Nitrophenol	42.2	10	g/L	50.0		84.4	30-130	3.27	20	
4-Nitrophenol	26.0	10	g/L	50.0		52.0	15-140	2.88	20	
Pentachlorophenol	32.7	10	g/L	50.0		65.3	30-130	0.458	20	
Phenanthrene	46.7	5.0	g/L	50.0		93.4	40-140	2.19	20	
Phenanthrene (low)	43.0	1.2	g/L	50.0		86.0	40-140	5.81	20	
Phenol	15.1	10	g/L	50.0		30.1	15-140	1.71	20	
Pyrene	45.6	5.0	g/L	50.0		91.3	40-140	4.87	20	
Pyrene (low)	46.1	25	g/L	50.0		92.2	40-140	6.15	20	
1,2,4-Trichlorobenzene	39.5	5.0	g/L	50.0		78.9	40-140	1.76	20	
2,4,5-Trichlorophenol	43.4	10	g/L	50.0		86.8	30-130	2.95	20	
2,4,6-Trichlorophenol	44.0	10	g/L	50.0		88.0	30-130	0.524	20	
Surrogate: 2-Fluorophenol	79.2		µg/L	200		39.6	15-110			
Surrogate: Phenol-d6	52.0		µg/L	200		26.0	15-110			
Surrogate: Nitrobenzene-d5	89.2		µg/L	100		89.2	30-130			
Surrogate: Nitrobenzene-d5 (low)	65.2		µg/L	100		65.2	30-130			
Surrogate: 2-Fluorobiphenyl	92.7		µg/L	100		92.7	30-130			
Surrogate: 2-Fluorobiphenyl (low)	68.8		µg/L	100		68.8	30-130			
Surrogate: 2,4,6-Tribromophenol	210		µg/L	200		105	15-110			
Surrogate: p-Terphenyl-d14	95.7		µg/L	100		95.7	30-130			
Surrogate: p-Terphenyl-d14 (low)	49.2		g/L	100		49.2	30-130			

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

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121418 - SW-846 3510C										
Blank (B121418-BLK1)										
Prepared: 05/11/15 Analyzed: 05/12/15										
Aroclor-1016	ND	0.20	g/L							R-05
Aroclor-1016 [2C]	ND	0.20	g/L							R-05
Aroclor-1221	ND	0.20	g/L							
Aroclor-1221 [2C]	ND	0.20	g/L							
Aroclor-1232	ND	0.20	g/L							
Aroclor-1232 [2C]	ND	0.20	g/L							
Aroclor-1242	ND	0.20	g/L							
Aroclor-1242 [2C]	ND	0.20	g/L							
Aroclor-1248	ND	0.20	g/L							
Aroclor-1248 [2C]	ND	0.20	g/L							
Aroclor-1254	ND	0.20	g/L							
Aroclor-1254 [2C]	ND	0.20	g/L							
Aroclor-1260	ND	0.20	g/L							R-05
Aroclor-1260 [2C]	ND	0.20	g/L							R-05
Aroclor-1262	ND	0.20	g/L							
Aroclor-1262 [2C]	ND	0.20	g/L							
Aroclor-1268	ND	0.20	g/L							
Aroclor-1268 [2C]	ND	0.20	g/L							
Surrogate: Decachlorobiphenyl	1.34		µg/L	2.00		67.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.28		µg/L	2.00		64.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.34		µg/L	2.00		66.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.43		g/L	2.00		71.6	30-150			
LCS (B121418-BS1)										
Prepared: 05/11/15 Analyzed: 05/12/15										
Aroclor-1016	0.25	0.20	g/L	0.500		50.0	40-140			R-05
Aroclor-1016 [2C]	0.27	0.20	g/L	0.500		54.8	40-140			R-05
Aroclor-1260	0.27	0.20	g/L	0.500		53.7	40-140			R-05
Aroclor-1260 [2C]	0.30	0.20	g/L	0.500		59.3	40-140			R-05
Surrogate: Decachlorobiphenyl	0.860		µg/L	2.00		43.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.825		µg/L	2.00		41.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.831		µg/L	2.00		41.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.898		g/L	2.00		44.9	30-150			
LCS Dup (B121418-BSD1)										
Prepared: 05/11/15 Analyzed: 05/12/15										
Aroclor-1016	0.37	0.20	g/L	0.500		73.3	40-140	37.7	20	R-05
Aroclor-1016 [2C]	0.40	0.20	g/L	0.500		80.7	40-140	38.2	20	R-05
Aroclor-1260	0.39	0.20	g/L	0.500		78.0	40-140	36.9	20	R-05
Aroclor-1260 [2C]	0.44	0.20	g/L	0.500		87.9	40-140	38.8	20	R-05
Surrogate: Decachlorobiphenyl	1.33		µg/L	2.00		66.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.28		µg/L	2.00		64.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.21		µg/L	2.00		60.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.30		g/L	2.00		64.9	30-150			

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121459 - SW-846 3005A										
Blank (B121459-BLK1)				Prepared: 05/11/15 Analyzed: 05/12/15						
Chromium	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
LCS (B121459-BS1)				Prepared: 05/11/15 Analyzed: 05/12/15						
Chromium	2.01	0.010	mg/L	2.00		100	80-120			
Iron	2.12	0.050	mg/L	2.00		106	80-120			
LCS Dup (B121459-BSD1)				Prepared: 05/11/15 Analyzed: 05/12/15						
Chromium	2.04	0.010	mg/L	2.00		102	80-120	1.54	20	
Iron	2.13	0.050	mg/L	2.00		107	80-120	0.745	20	
Duplicate (B121459-DUP1)				Source: 15E0343-01		Prepared: 05/11/15 Analyzed: 05/12/15				
Chromium	ND	0.010	mg/L		ND			NC	20	
Iron	6.07	0.050	mg/L		7.02			14.4	20	
Matrix Spike (B121459-MS1)				Source: 15E0343-01		Prepared: 05/11/15 Analyzed: 05/12/15				
Chromium	1.90	0.010	mg/L	2.00	0.00471	94.9	75-125			
Iron	7.15	0.050	mg/L	2.00	7.02	6.61	75-125			M-07
Batch B121464 - SW-846 3005A										
Blank (B121464-BLK1)				Prepared: 05/11/15 Analyzed: 05/12/15						
Antimony	ND	1.0	g/L							
Arsenic	ND	0.40	g/L							
Barium	ND	10	g/L							
Cadmium	ND	0.50	g/L							
Chromium	ND	1.0	g/L							
Copper	ND	5.0	g/L							
Lead	ND	1.0	g/L							
Nickel	ND	5.0	g/L							
Selenium	ND	5.0	g/L							
Silver	ND	0.50	g/L							
Zinc	ND	10	g/L							
LCS (B121464-BS1)				Prepared: 05/11/15 Analyzed: 05/12/15						
Antimony	525	10	g/L	500		105	80-120			
Arsenic	519	4.0	g/L	500		104	80-120			
Barium	517	100	g/L	500		103	80-120			
Cadmium	529	5.0	g/L	500		106	80-120			
Chromium	512	10	g/L	500		102	80-120			
Copper	512	50	g/L	500		102	80-120			
Lead	525	10	g/L	500		105	80-120			
Nickel	505	50	g/L	500		101	80-120			
Selenium	528	50	g/L	500		106	80-120			
Silver	526	5.0	g/L	500		105	80-120			
Zinc	540	100	g/L	500		108	80-120			

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B121464 - SW-846 3005A

LCS Dup (B121464-BSD1)

Prepared: 05/11/15 Analyzed: 05/12/15

Antimony	519	10	g/L	500		104	80-120	1.19	20	
Arsenic	514	4.0	g/L	500		103	80-120	1.07	20	
Barium	506	100	g/L	500		101	80-120	2.05	20	
Cadmium	524	5.0	g/L	500		105	80-120	1.01	20	
Chromium	503	10	g/L	500		101	80-120	1.84	20	
Copper	507	50	g/L	500		101	80-120	0.939	20	
Lead	523	10	g/L	500		105	80-120	0.394	20	
Nickel	500	50	g/L	500		100	80-120	0.943	20	
Selenium	528	50	g/L	500		106	80-120	0.0860	20	
Silver	517	5.0	g/L	500		103	80-120	1.71	20	
Zinc	531	100	g/L	500		106	80-120	1.75	20	

Duplicate (B121464-DUP1)

Source: 15E0343-01

Prepared: 05/11/15 Analyzed: 05/12/15

Antimony	ND	1.0	g/L		ND			NC	20	
Arsenic	24.9	0.40	g/L		25.2			1.27	20	
Barium	249	50	g/L		255			2.38	20	
Cadmium	ND	0.50	g/L		ND			NC	20	
Chromium	9.83	1.0	g/L		10.4			5.51	20	
Copper	25.4	5.0	g/L		25.5			0.469	20	
Lead	ND	5.0	g/L		ND			NC	20	DL-15
Nickel	14.5	5.0	g/L		14.8			1.98	20	
Selenium	72.4	5.0	g/L		75.0			3.61	20	
Silver	ND	0.50	g/L		ND			NC	20	
Zinc	17.5	10	g/L		16.9			3.23	20	

Matrix Spike (B121464-MS1)

Source: 15E0343-01

Prepared: 05/11/15 Analyzed: 05/12/15

Antimony	2060	40	g/L	2000	ND	103	75-125			
Arsenic	2050	16	g/L	2000	25.2	101	75-125			
Barium	2250	400	g/L	2000	255	99.7	75-125			
Cadmium	1990	20	g/L	2000	0.243	99.7	75-125			
Chromium	2000	40	g/L	2000	10.4	100	75-125			
Copper	1880	200	g/L	2000	25.5	92.9	75-125			
Lead	2050	40	g/L	2000	3.91	102	75-125			
Nickel	1870	200	g/L	2000	14.8	92.6	75-125			
Selenium	1940	200	g/L	2000	75.0	93.1	75-125			
Silver	1790	20	g/L	2000	ND	89.6	75-125			
Zinc	1920	400	g/L	2000	16.9	96.2	75-125			

Batch B121637 - SW-846 7470A Prep

Blank (B121637-BLK1)

Prepared: 05/13/15 Analyzed: 05/14/15

Mercury	ND	0.00010	mg/L							
---------	----	---------	------	--	--	--	--	--	--	--

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B121637 - SW-846 7470A Prep

LCS (B121637-BS1)

Prepared: 05/13/15 Analyzed: 05/14/15

Mercury	0.00181	0.00010	mg/L	0.00200		90.7	80-120			
---------	---------	---------	------	---------	--	------	--------	--	--	--

LCS Dup (B121637-BSD1)

Prepared: 05/13/15 Analyzed: 05/14/15

Mercury	0.00163	0.00010	mg/L	0.00200		81.4	80-120	10.9	20	
---------	---------	---------	------	---------	--	------	--------	------	----	--

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121155 - EPA 420.1										
Blank (B121155-BLK1)				Prepared & Analyzed: 05/11/15						
Phenol	ND	0.050	mg/L							
LCS (B121155-BS1)				Prepared & Analyzed: 05/11/15						
Phenol	0.50	0.050	mg/L	0.500		101	76.6-128			
LCS Dup (B121155-BSD1)				Prepared & Analyzed: 05/11/15						
Phenol	0.51	0.050	mg/L	0.500		102	76.6-128	1.58	9.7	
Reference (B121155-SRM1)				Prepared & Analyzed: 05/11/15						
Phenol	0.472	0.050	mg/L	0.500		94.3	0-200			
Batch B121338 - SM21-22 4500 CL G										
Blank (B121338-BLK1)				Prepared & Analyzed: 05/08/15						
Chlorine, Residual	ND	0.020	mg/L							
LCS (B121338-BS1)				Prepared & Analyzed: 05/08/15						
Chlorine, Residual	1.6	0.020	mg/L	1.47		106	92.3-128			
LCS Dup (B121338-BSD1)				Prepared & Analyzed: 05/08/15						
Chlorine, Residual	1.6	0.020	mg/L	1.47		106	92.3-128	0.256	5.82	
Duplicate (B121338-DUP1)				Source: 15E0343-01			Prepared & Analyzed: 05/08/15			
Chlorine, Residual	ND	0.020	mg/L		ND			NC	56.9	
Matrix Spike (B121338-MS1)				Source: 15E0343-01			Prepared & Analyzed: 05/08/15			
Chlorine, Residual	1.3	0.020	mg/L	1.00	ND	133	10-159			
Batch B121339 - SM21-22 3500 Cr B										
Blank (B121339-BLK1)				Prepared & Analyzed: 05/08/15						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B121339-BS1)				Prepared & Analyzed: 05/08/15						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		103	90.8-114			
LCS Dup (B121339-BSD1)				Prepared & Analyzed: 05/08/15						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		103	90.8-114	0.00	7.51	
Duplicate (B121339-DUP1)				Source: 15E0343-02			Prepared & Analyzed: 05/08/15			
Hexavalent Chromium	ND	0.0040	mg/L		ND			NC	20	

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121339 - SM21-22 3500 Cr B										
Matrix Spike (B121339-MS1)	Source: 15E0343-02			Prepared & Analyzed: 05/08/15						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100	ND	103	45.2-136			
Matrix Spike Dup (B121339-MSD1)	Source: 15E0343-02			Prepared & Analyzed: 05/08/15						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100	ND	103	45.2-136	0.00	12.1	
Batch B121399 - SM21-22 2540D										
Blank (B121399-BLK1)	Prepared & Analyzed: 05/11/15									
Total Suspended Solids	ND	2.5	mg/L							
LCS (B121399-BS1)	Prepared & Analyzed: 05/11/15									
Total Suspended Solids	172	10	mg/L	200		86.0	70.4-114			
Duplicate (B121399-DUP2)	Source: 15E0343-02			Prepared & Analyzed: 05/11/15						
Total Suspended Solids	340	10	mg/L		350			2.87	5	
Batch B121484 - EPA 1664B										
Blank (B121484-BLK1)	Prepared & Analyzed: 05/12/15									
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							
LCS (B121484-BS1)	Prepared & Analyzed: 05/12/15									
Silica Gel Treated HEM (SGT-HEM)	17		mg/L	20.0		85.5	64-132			
LCS Dup (B121484-BSD1)	Prepared & Analyzed: 05/12/15									
Silica Gel Treated HEM (SGT-HEM)	17		mg/L	20.0		87.0	64-132	1.74	18	
Batch B121536 - SW-846 9014										
Blank (B121536-BLK1)	Prepared & Analyzed: 05/12/15									
Cyanide	ND	0.010	mg/L							
LCS (B121536-BS1)	Prepared & Analyzed: 05/12/15									
Cyanide	0.68	0.010	mg/L	0.744		91.1	80-120			
LCS Dup (B121536-BSD1)	Prepared & Analyzed: 05/12/15									
Cyanide	0.68	0.010	mg/L	0.744		90.8	80-120	0.409	20	
Matrix Spike (B121536-MS1)	Source: 15E0343-02			Prepared & Analyzed: 05/12/15						
Cyanide	0.41	0.010	mg/L	0.352	0.11	85.4	75-125			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121536 - SW-846 9014										
Matrix Spike Dup (B121536-MSD1)		Source: 15E0343-02		Prepared & Analyzed: 05/12/15						
Cyanide	0.42	0.010	mg/L	0.352	0.11	87.6	75-125	1.84	20	
Batch B121560 - SM21-22 4500 CL B										
Blank (B121560-BLK1)		Prepared & Analyzed: 05/12/15								
Chloride	ND	1.0	mg/L							
LCS (B121560-BS1)		Prepared & Analyzed: 05/12/15								
Chloride	12	1.0	mg/L	11.8		105	87.1-113			
LCS Dup (B121560-BSD1)		Prepared & Analyzed: 05/12/15								
Chloride	12	1.0	mg/L	11.8		105	87.1-113	0.00	9.72	

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

QUALITY CONTROL
Drinking Water Organics EPA 504.1 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121502 - EPA 504 water										
Blank (B121502-BLK1)				Prepared & Analyzed: 05/12/15						
1,2-Dibromoethane (EDB)	ND	0.020	g/L							
1,2-Dibromoethane (EDB) [2C]	ND	0.020	g/L							
Surrogate: 1,3-Dibromopropane	1.02		µg/L	1.00		102	70-130			
Surrogate: 1,3-Dibromopropane [2C]	1.07		g/L	1.00		107	70-130			
LCS (B121502-BS1)				Prepared & Analyzed: 05/12/15						
1,2-Dibromoethane (EDB)	0.182	0.020	g/L	0.175		104	70-130			
1,2-Dibromoethane (EDB) [2C]	0.163	0.020	g/L	0.175		93.1	70-130			
Surrogate: 1,3-Dibromopropane	0.961		g/L	1.00		96.1	70-130			
Surrogate: 1,3-Dibromopropane [2C]	1.00		g/L	1.00		100	70-130			
LCS Dup (B121502-BSD1)				Prepared & Analyzed: 05/12/15						
1,2-Dibromoethane (EDB)	0.184	0.020	g/L	0.175		105	70-130	1.09		
1,2-Dibromoethane (EDB) [2C]	0.167	0.020	g/L	0.175		95.4	70-130	2.42		
Surrogate: 1,3-Dibromopropane	0.829		g/L	1.00		82.9	70-130			
Surrogate: 1,3-Dibromopropane [2C]	0.957		g/L	1.00		95.7	70-130			

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B121418-BS1 Date(s) Analyzed: 05/12/2015 05/12/2015
Instrument ID (1): Instrument ID (2):
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.25	
	2	0.00	0.00	0.00	0.27	8
Aroclor-1260	1	0.00	0.00	0.00	0.27	
	2	0.00	0.00	0.00	0.30	11

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B121418-BSD1 Date(s) Analyzed: 05/12/2015 05/12/2015
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.37	
	2	0.00	0.00	0.00	0.40	9
Aroclor-1260	1	0.00	0.00	0.00	0.39	
	2	0.00	0.00	0.00	0.44	12

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***EPA 504.1***LCS**

Lab Sample ID: B121502-BS1 Date(s) Analyzed: 05/12/2015 05/12/2015
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane (EDB)	1	2.33	0.00	0.00	0.182	
	2	2.62	0.00	0.00	0.163	11

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***EPA 504.1***LCS Dup**

Lab Sample ID: B121502-BSD1 Date(s) Analyzed: 05/12/2015 05/12/2015
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane (EDB)	1	2.33	0.00	0.00	0.184	
	2	2.62	0.00	0.00	0.167	10

FLAG/QUALIFIER SUMMARY

	QC result is outside of established limits.
	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-01	Elevated reporting limits for all volatile compounds due to foaming sample matrix.
DL-15	Sample required a dilution due to low internal standard recovery of the lesser diluted digestion, reporting limit is elevated.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
M-07	Result is serial dilution as per MA CAM/ CT RCP regulation.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-03	Elevated reporting limit based on lowest point in calibration. Requested reporting limit not met.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
S-12	Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 420.1 in Water</i>	
Phenol	CT,MA,NH,NY,RI,NC,ME,VA,NJ
<i>SM21-22 2540D in Water</i>	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA,NJ
<i>SM21-22 3500 Cr B in Water</i>	
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NJ,NC
<i>SM21-22 4500 CL B in Water</i>	
Chloride	NH,CT,MA,NY,RI,NC,ME,VA,NJ
<i>SM21-22 4500 CL G in Water</i>	
Chlorine, Residual	CT,MA,RI,ME
<i>SW-846 6010C in Water</i>	
Arsenic	CT,NH,NY,ME,NC,VA,RI
Barium	CT,NH,NY,ME,NC,VA,NJ
Cadmium	CT,NH,NY,ME,NC,VA,NJ
Chromium	CT,NH,NY,ME,NC,VA,NJ
Iron	CT,NH,NY,ME,NC,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,ME,NC,VA,NJ
Silver	CT,NH,NY,ME,NC,VA,NJ
<i>SW-846 6020A in Water</i>	
Antimony	CT,NH,NY,NC,ME,VA,NJ
Arsenic	CT,NH,NY,NC,ME,VA,NJ
Barium	CT,NH,NY,NC,ME,VA,NJ
Cadmium	CT,NH,NY,RI,NC,ME,VA,NJ
Chromium	CT,NH,NY,NC,ME,VA,NJ
Copper	CT,NH,NY,NC,ME,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Nickel	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,NC,ME,VA,NJ
Silver	CT,NH,NY,NC,ME,VA,NJ
Zinc	CT,NH,NY,NC,ME,VA,NJ
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA,NJ
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Water</i>	
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
<i>SW-846 8260C in Water</i>	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
<i>SW-846 8270D in Water</i>	
Aniline	CT,NY
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenol	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

SW-846 9014 in Water

Cyanide NY,CT,NH,NC,ME,VA,NJ

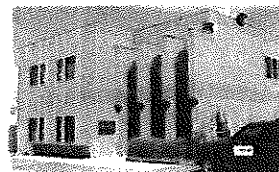
The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

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

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



Page 1 of 2



Sample Receipt Checklist

CLIENT NAME: Tighe and Bond RECEIVED BY: JDL DATE: 5/8/15

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.8

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

Who was notified _____ Date _____ Time _____

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

Who was notified David Date 5/8/15 Time 1800

7) Location where samples are stored:

19

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

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

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

MW-1 pH < 14

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

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber	<u>12</u>		8 oz amber/clear jar	
500 mL Amber	<u>2</u>		4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic	<u>2</u>		Plastic Bag / Ziploc	
500 mL Plastic			SOC Kit	
250 mL plastic	<u>6</u>		Non-ConTest Container	
40 mL Vial - type listed below	<u>14</u>		Perchlorate Kit	
Colisure / bacteria bottle			Flashpoint bottle	
Dissolved Oxygen bottle			Other glass jar	
Encore			Other	

Laboratory Comments:

40 mL vials: # HCl 8 # Methanol _____

Doc# 277 # Bisulfate _____ # DI Water _____

Rev. 4 August 2013 # Thiosulfate 6 Unpreserved _____

Time and Date Frozen:

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

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

Doc #277 Rev. 4 August 2013

Who notified of False statements?

Log-In Technician Initials: JDL

Date/Time:

Date/Time: 5/8/15 1800

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory

Project #: 15E0343

Project Location: Seaport District, Boston, MA

RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

15E0343-01 thru 15E0343-03

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B (X)	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A (X)	6020 Metals CAM III D (X)	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A (X)	6860 Perchlorate CAM VIII B ()	

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☒ Yes ☐ No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes ☐ No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☒ Yes ☐ No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	☒ Yes ☐ No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes ☐ No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	☒ Yes ☐ No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☒ No ¹
----------	---	--

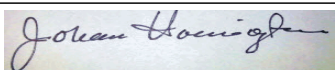
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☒ No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes ☒ No ¹

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

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

Signature: _____



Position: Manager, Laboratory Reporting

Printed Name: Johanna K. Harrington

Date: 05/14/15

May 26, 2015

Michael Zylich
NSTAR Electric & Gas Corporation - Monthly Billing
One NSTAR Way, SUM SE-250
East Sandwich, MA 02090-9230

Project Location: Seafood Way. Boston, MA
Client Job Number:
Project Number: N-1023-35
Laboratory Work Order Number: 15E0890

Enclosed are results of analyses for samples received by the laboratory on May 19, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long horizontal flourish extending to the right.

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	9
15E0890-01	9
15E0890-02	18
Sample Preparation Information	27
QC Data	29
Volatile Organic Compounds by GC/MS	29
B122270	29
Semivolatile Organic Compounds by GC/MS	34
B122137	34
Polychlorinated Biphenyls By GC/ECD	38
B122167	38
Metals Analyses (Total)	39
B122287	39
Metals Analyses (Dissolved)	40
B122160	40
B122218	40
B122219	41
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	42
B121591	42
B122135	42
B122136	42
B122156	42
B122233	43
B122249	43

Table of Contents (continued)

B122286	43
Drinking Water Organics EPA 504.1	45
B122391	45
Dual Column RPD Report	46
Flag/Qualifier Summary	50
Certifications	51
Chain of Custody/Sample Receipt	55

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

NSTAR Electric & Gas Corporation - Monthly Billi

One NSTAR Way, SUM SE-250

East Sandwich, MA 02090-9230

ATTN: Michael Zylich

REPORT DATE: 5/26/2015

PURCHASE ORDER NUMBER: 64454, Release 1

PROJECT NUMBER: N-1023-35

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15E0890

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

PROJECT LOCATION: Seafood Way. Boston, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	15E0890-01	Ground Water		EPA 1664B	
				EPA 420.1	
				EPA 504.1	
				SM21-22 2540D	
				SM21-22 3500 Cr B	
				SM21-22 4500 CL B	
				SM21-22 4500 CL G	
				SM21-22 4500 CN E	
				SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				Tri Chrome Calc.	
MW-2	15E0890-02	Ground Water		EPA 1664B	
				EPA 420.1	
				EPA 504.1	
				SM21-22 2540D	
				SM21-22 3500 Cr B	
				SM21-22 4500 CL B	
				SM21-22 4500 CL G	
				SM21-22 4500 CN E	
				SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
				Tri Chrome Calc.	

CASE NARRATIVE SUMMARY

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

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

EPA 504.1**Qualifications:****S-13**

Surrogate recovery is outside of control limits on both columns.

Data validation is not affected since all results are "not detected" and bias is on the high side.

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

15E0890-02[MW-2]

1,3-Dibromopropane [2C]

15E0890-02[MW-2]

V-06

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

Analyte & Samples(s) Qualified:**1,2-Dibromoethane (EDB)**

B122391-BS1, B122391-BSD1

SW-846 8082A**Qualifications:****S-12**

Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

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

15E0890-02[MW-2]

SW-846 8260C**Qualifications:****L-07**

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

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

B122270-BSD1

L-14

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

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

B122270-BS1, B122270-BSD1

Dichlorodifluoromethane (Freon 1)

B122270-BS1, B122270-BSD1

RL-07

Elevated reporting limit based on lowest point in calibration.

MA CAM reporting limit not met.

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

15E0890-01[MW-1]

Carbon Disulfide

15E0890-01[MW-1]

Methylene Chloride

15E0890-01[MW-1]

RL-14

Elevated reporting limit due to foaming sample matrix. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

15E0890-02[MW-2]

V-05

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

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

15E0890-01[MW-1], 15E0890-02[MW-2], B122270-BLK1, B122270-BS1, B122270-BSD1

Dichlorodifluoromethane (Freon 1:

15E0890-01[MW-1], 15E0890-02[MW-2], B122270-BLK1, B122270-BS1, B122270-BSD1

V-16

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

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

15E0890-01[MW-1], 15E0890-02[MW-2], B122270-BLK1, B122270-BS1, B122270-BSD1

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

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

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

15E0890-01[MW-1], 15E0890-02[MW-2], B122137-BLK1, B122137-BS1, B122137-BSD1

4-Nitrophenol

15E0890-01[MW-1], 15E0890-02[MW-2], B122137-BLK1, B122137-BS1, B122137-BSD1

RL-03

Elevated reporting limit based on lowest point in calibration.

Requested reporting limit not met.

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

15E0890-01[MW-1], 15E0890-02[MW-2], B122137-BLK1

Hexachlorobutadiene

15E0890-01[MW-1], 15E0890-02[MW-2], B122137-BLK1

Pentachlorophenol

15E0890-01[MW-1], 15E0890-02[MW-2], B122137-BLK1

V-06

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

Analyte & Samples(s) Qualified:**3,3-Dichlorobenzidine**

B122137-BS1, B122137-BSD1

V-20

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

Analyte & Samples(s) Qualified:**3,3-Dichlorobenzidine**

15E0890-01[MW-1], 15E0890-02[MW-2], B122137-BLK1

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

SW-846 8260C

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

SW-846 8270D

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

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

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

A handwritten signature in black ink, appearing to read "Daren J. Damboragian", is written over a light gray rectangular background.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-1

Sample ID: 15E0890-01

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:14:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Bromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/21/15	5/22/15 2:28	EEH
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Carbon Disulfide	ND	5.0	µg/L	1	RL-07	SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Carbon Tetrachloride	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1	V-05	SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
cis-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
trans-1,3-Dichloropropene	ND	0.40	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-1

Sample ID: 15E0890-01

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:14:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.50	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
2-Hexanone (MBK)	ND	10	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Isopropylbenzene (Cumene)	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Methylene Chloride	ND	5.0	g/L	1	RL-07	SW-846 8260C	5/21/15	5/22/15 2:28	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Naphthalene	ND	2.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
n-Propylbenzene	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Styrene	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Tetrachloroethylene	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Tetrahydrofuran	ND	2.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Toluene	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,2,3-Trichlorobenzene	ND	2.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,2,4-Trichlorobenzene	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,1,1-Trichloroethane	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,1,2-Trichloroethane	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Trichloroethylene	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,2,3-Trichloropropane	ND	2.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,2,4-Trimethylbenzene	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
1,3,5-Trimethylbenzene	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
Vinyl Chloride	ND	2.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
m+p Xylene	ND	2.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH
o-Xylene	ND	1.0	g/L	1		SW-846 8260C	5/21/15	5/22/15 2:28	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	93.6	70-130	5/22/15 2:28
Toluene-d8	100	70-130	5/22/15 2:28
4-Bromofluorobenzene	101	70-130	5/22/15 2:28

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-1

Sample ID: 15E0890-01

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:14:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	0.30	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Acenaphthylene (low)	ND	0.30	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Acetophenone	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Aniline	ND	5.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Anthracene (low)	ND	0.20	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Benzo(a)anthracene (low)	ND	0.050	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Benzo(a)pyrene (low)	ND	0.10	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Benzo(b)fluoranthene (low)	ND	0.050	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Benzo(k)fluoranthene (low)	ND	0.20	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Bis(2-chloroethoxy)methane	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Bis(2-chloroethyl)ether	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Bis(2-chloroisopropyl)ether	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Bis(2-Ethylhexyl)phthalate	3.9	2.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
4-Bromophenylphenylether	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Butylbenzylphthalate	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
4-Chloroaniline	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
2-Chloronaphthalene	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
2-Chlorophenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Chrysene (low)	ND	0.20	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Dibenzofuran	ND	5.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Di-n-butylphthalate	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
1,2-Dichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
1,3-Dichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
1,4-Dichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
3,3-Dichlorobenzidine	ND	10	g/L	1	V-20	SW-846 8270D	5/20/15	5/21/15 12:11	BGL
2,4-Dichlorophenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Diethylphthalate	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
2,4-Dimethylphenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Dimethylphthalate	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
2,4-Dinitrophenol	ND	10	g/L	1	R-05	SW-846 8270D	5/20/15	5/21/15 12:11	BGL
2,4-Dinitrotoluene	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
2,6-Dinitrotoluene	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Di-n-octylphthalate	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Fluoranthene (low)	ND	0.50	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Fluorene (low)	ND	1.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Hexachlorobenzene	ND	2.0	g/L	1	RL-03	SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Hexachlorobutadiene	ND	2.0	g/L	1	RL-03	SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Hexachloroethane	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Isophorone	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
2-Methylnaphthalene (low)	ND	1.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-1

Sample ID: 15E0890-01

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:14:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
3/4-Methylphenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Naphthalene (low)	ND	1.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Nitrobenzene	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
2-Nitrophenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
4-Nitrophenol	ND	10	g/L	1	R-05	SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Pentachlorophenol	ND	5.0	g/L	1	RL-03	SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Phenanthrene (low)	ND	0.050	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
Phenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
Pyrene (low)	ND	1.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 13:43	CJM
1,2,4-Trichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
2,4,5-Trichlorophenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL
2,4,6-Trichlorophenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:11	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	35.3	15-110	5/21/15 12:11
Phenol-d6	29.4	15-110	5/21/15 12:11
Nitrobenzene-d5	72.6	30-130	5/21/15 12:11
Nitrobenzene-d5 (low)	48.3	30-130	5/21/15 13:43
2-Fluorobiphenyl	71.1	30-130	5/21/15 12:11
2-Fluorobiphenyl (low)	47.5	30-130	5/21/15 13:43
2,4,6-Tribromophenol	62.0	15-110	5/21/15 12:11
p-Terphenyl-d14	75.5	30-130	5/21/15 12:11
p-Terphenyl-d14 (low)	39.9	30-130	5/21/15 13:43

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-1

Sample ID: 15E0890-01

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:14:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 1]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 12:55	PJG
Aroclor-1221 1]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 12:55	PJG
Aroclor-1232 1]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 12:55	PJG
Aroclor-1242 1]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 12:55	PJG
Aroclor-1248 1]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 12:55	PJG
Aroclor-1254 1]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 12:55	PJG
Aroclor-1260 1]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 12:55	PJG
Aroclor-1262 1]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 12:55	PJG
Aroclor-1268 1]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 12:55	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl 1]	73.9	30-150						5/22/15 12:55	
Decachlorobiphenyl 2]	99.8	30-150						5/22/15 12:55	
Tetrachloro-m-xylene 1]	65.2	30-150						5/22/15 12:55	
Tetrachloro-m-xylene 2]	80.1	30-150						5/22/15 12:55	

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-1

Sample ID: 15E0890-01

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:14:00AM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.010	mg/L	1		SW-846 6010C	5/21/15	5/22/15 13:10	MJH
Chromium, Trivalent	0.0		mg/L	1		Tri Chrome Calc.	5/21/15	5/26/15 12:56	MJH

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-1

Sample ID: 15E0890-01

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:14:00AM

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:15	KSH
Arsenic	20	2.0	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:15	KSH
Barium	95	50	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:15	KSH
Cadmium	ND	2.5	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:15	KSH
Chromium	ND	5.0	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:15	KSH
Copper	63	25	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:15	KSH
Iron	ND	0.050	mg/L	1		SW-846 6010C	5/20/15	5/21/15 14:54	MJH
Lead	ND	5.0	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:15	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	5/20/15	5/21/15 9:44	SCB
Nickel	ND	25	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:15	KSH
Selenium	61	25	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:15	KSH
Silver	ND	2.5	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:15	KSH
Zinc	ND	50	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:15	KSH

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-1

Sample ID: 15E0890-01

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:14:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	7900	100	mg/L	100		SM21-22 4500 CL B	5/20/15	5/20/15 19:50	DJM
Chlorine, Residual	ND	0.020	mg/L	1		SM21-22 4500 CL G	5/19/15	5/19/15 22:35	DJM
Cyanide	ND	0.010	mg/L	1		SM21-22 4500 CN E	5/21/15	5/22/15 13:15	VAK
Hexavalent Chromium	ND	0.0040	mg/L	1		SM21-22 3500 Cr B	5/19/15	5/19/15 23:20	DJM
Phenol	ND	0.050	mg/L	1		EPA 420.1	5/20/15	5/20/15 12:00	LL
Total Suspended Solids	7.0	5.0	mg/L	1		SM21-22 2540D	5/20/15	5/20/15 13:00	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.6	mg/L	1		EPA 1664B	5/21/15	5/21/15 12:30	LL

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-1

Sample ID: 15E0890-01

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:14:00AM

Drinking Water Organics EPA 504.1

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2-Dibromoethane (EDB) (2)	ND	0.020	g/L	1		EPA 504.1	5/22/15	5/22/15 14:47	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,3-Dibromopropane (1)	89.0		70-130					5/22/15 14:47	
1,3-Dibromopropane (2)	89.1		70-130					5/22/15 14:47	

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-2

Sample ID: 15E0890-02

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:08:00AM

Sample Flags: RL-14

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	450	100	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
tert-Amyl Methyl Ether (TAME)	ND	5.0	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Benzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Bromobenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Bromochloromethane	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Bromodichloromethane	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Bromoform	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Bromomethane	ND	50	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
2-Butanone (MEK)	ND	100	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
n-Butylbenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
sec-Butylbenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
tert-Butylbenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Carbon Disulfide	ND	50	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Carbon Tetrachloride	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Chlorobenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Chlorodibromomethane	ND	5.0	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Chloroethane	ND	20	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Chloroform	ND	20	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Chloromethane	ND	20	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
2-Chlorotoluene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
4-Chlorotoluene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	20	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,2-Dibromoethane (EDB)	ND	5.0	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Dibromomethane	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,2-Dichlorobenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,3-Dichlorobenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,4-Dichlorobenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Dichlorodifluoromethane (Freon 12)	ND	20	g/L	10	V-05	SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,1-Dichloroethane	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,2-Dichloroethane	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,1-Dichloroethylene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
cis-1,2-Dichloroethylene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
trans-1,2-Dichloroethylene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,2-Dichloropropane	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,3-Dichloropropane	ND	5.0	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
2,2-Dichloropropane	ND	10	g/L	10	V-05	SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,1-Dichloropropene	ND	5.0	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
cis-1,3-Dichloropropene	ND	4.0	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
trans-1,3-Dichloropropene	ND	4.0	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Diethyl Ether	ND	20	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Diisopropyl Ether (DIPE)	ND	5.0	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,4-Dioxane	ND	500	g/L	10	V-16	SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Ethylbenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-2

Sample ID: 15E0890-02

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:08:00AM

Sample Flags: RL-14

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	5.0	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
2-Hexanone (MBK)	ND	100	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Isopropylbenzene (Cumene)	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
p-Isopropyltoluene (p-Cymene)	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Methyl tert-Butyl Ether (MTBE)	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Methylene Chloride	ND	50	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
4-Methyl-2-pentanone (MIBK)	ND	100	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Naphthalene	23	20	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
n-Propylbenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Styrene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,1,1,2-Tetrachloroethane	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,1,2,2-Tetrachloroethane	ND	5.0	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Tetrachloroethylene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Tetrahydrofuran	ND	20	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Toluene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,2,3-Trichlorobenzene	ND	20	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,2,4-Trichlorobenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,1,1-Trichloroethane	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,1,2-Trichloroethane	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Trichloroethylene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Trichlorofluoromethane (Freon 11)	ND	20	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,2,3-Trichloropropane	ND	20	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,2,4-Trimethylbenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
1,3,5-Trimethylbenzene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
Vinyl Chloride	ND	20	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
m+p Xylene	ND	20	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH
o-Xylene	ND	10	g/L	10		SW-846 8260C	5/21/15	5/22/15 2:55	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	92.4	70-130	5/22/15 2:55
Toluene-d8	99.1	70-130	5/22/15 2:55
4-Bromofluorobenzene	102	70-130	5/22/15 2:55

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-2

Sample ID: 15E0890-02

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:08:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (low)	ND	6.0	g/L	20		SW-846 8270D	5/20/15	5/21/15 16:06	CJM
Acenaphthylene (low)	ND	6.0	g/L	20		SW-846 8270D	5/20/15	5/21/15 16:06	CJM
Acetophenone	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Aniline	ND	5.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Anthracene (low)	1.2	0.20	g/L	1		SW-846 8270D	5/20/15	5/21/15 14:11	CJM
Benzo(a)anthracene (low)	0.068	0.050	g/L	1		SW-846 8270D	5/20/15	5/21/15 14:11	CJM
Benzo(a)pyrene (low)	ND	0.10	g/L	1		SW-846 8270D	5/20/15	5/21/15 14:11	CJM
Benzo(b)fluoranthene (low)	ND	0.050	g/L	1		SW-846 8270D	5/20/15	5/21/15 14:11	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	g/L	1		SW-846 8270D	5/20/15	5/21/15 14:11	CJM
Benzo(k)fluoranthene (low)	ND	0.20	g/L	1		SW-846 8270D	5/20/15	5/21/15 14:11	CJM
Bis(2-chloroethoxy)methane	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Bis(2-chloroethyl)ether	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Bis(2-chloroisopropyl)ether	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	2.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
4-Bromophenylphenylether	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Butylbenzylphthalate	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
4-Chloroaniline	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
2-Chloronaphthalene	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
2-Chlorophenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Chrysene (low)	ND	0.20	g/L	1		SW-846 8270D	5/20/15	5/21/15 14:11	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	g/L	1		SW-846 8270D	5/20/15	5/21/15 14:11	CJM
Dibenzofuran	ND	5.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Di-n-butylphthalate	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
1,2-Dichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
1,3-Dichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
1,4-Dichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
3,3-Dichlorobenzidine	ND	10	g/L	1	V-20	SW-846 8270D	5/20/15	5/21/15 12:34	BGL
2,4-Dichlorophenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Diethylphthalate	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
2,4-Dimethylphenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Dimethylphthalate	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
2,4-Dinitrophenol	ND	10	g/L	1	R-05	SW-846 8270D	5/20/15	5/21/15 12:34	BGL
2,4-Dinitrotoluene	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
2,6-Dinitrotoluene	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Di-n-octylphthalate	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Fluoranthene (low)	ND	0.50	g/L	1		SW-846 8270D	5/20/15	5/21/15 14:11	CJM
Fluorene (low)	ND	20	g/L	20		SW-846 8270D	5/20/15	5/21/15 16:06	CJM
Hexachlorobenzene	ND	2.0	g/L	1	RL-03	SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Hexachlorobutadiene	ND	2.0	g/L	1	RL-03	SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Hexachloroethane	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	g/L	1		SW-846 8270D	5/20/15	5/21/15 14:11	CJM
Isophorone	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
2-Methylnaphthalene (low)	24	20	g/L	20		SW-846 8270D	5/20/15	5/21/15 16:06	CJM

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-2

Sample ID: 15E0890-02

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:08:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
3/4-Methylphenol	29	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Naphthalene (low)	12	10	g/L	20		SW-846 8270D	5/20/15	5/21/15 16:06	CJM
Nitrobenzene	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
2-Nitrophenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
4-Nitrophenol	ND	10	g/L	1	R-05	SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Pentachlorophenol	ND	5.0	g/L	1	RL-03	SW-846 8270D	5/20/15	5/21/15 12:34	BGL
Phenanthrene (low)	1.2	0.050	g/L	1		SW-846 8270D	5/20/15	5/21/15 14:11	CJM
Phenol	740	100	g/L	10		SW-846 8270D	5/20/15	5/21/15 13:00	BGL
Pyrene (low)	ND	1.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 14:11	CJM
1,2,4-Trichlorobenzene	ND	5.0	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
2,4,5-Trichlorophenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL
2,4,6-Trichlorophenol	ND	10	g/L	1		SW-846 8270D	5/20/15	5/21/15 12:34	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	35.0	15-110	5/21/15 12:34
Phenol-d6	24.6	15-110	5/21/15 12:34
Nitrobenzene-d5	59.0	30-130	5/21/15 12:34
Nitrobenzene-d5 (low)	49.6	30-130	5/21/15 14:11
2-Fluorobiphenyl	64.3	30-130	5/21/15 12:34
2-Fluorobiphenyl (low)	43.4	30-130	5/21/15 16:06
2,4,6-Tribromophenol	86.7	15-110	5/21/15 12:34
p-Terphenyl-d14	64.9	30-130	5/21/15 12:34
p-Terphenyl-d14 (low)	39.3	30-130	5/21/15 14:11

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-2

Sample ID: 15E0890-02

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:08:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 2]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 13:08	PJG
Aroclor-1221 2]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 13:08	PJG
Aroclor-1232 2]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 13:08	PJG
Aroclor-1242 2]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 13:08	PJG
Aroclor-1248 2]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 13:08	PJG
Aroclor-1254 2]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 13:08	PJG
Aroclor-1260 2]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 13:08	PJG
Aroclor-1262 2]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 13:08	PJG
Aroclor-1268 2]	ND	0.20	g/L	1		SW-846 8082A	5/20/15	5/22/15 13:08	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	28.1	*	30-150		S-12			5/22/15 13:08	
Decachlorobiphenyl 2]	34.8		30-150					5/22/15 13:08	
Tetrachloro-m-xylene 1]	61.4		30-150					5/22/15 13:08	
Tetrachloro-m-xylene 2]	76.1		30-150					5/22/15 13:08	

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-2

Sample ID: 15E0890-02

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:08:00AM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.010	mg/L	1		SW-846 6010C	5/21/15	5/22/15 13:16	MJH
Chromium, Trivalent	0.0071		mg/L	1		Tri Chrome Calc.	5/21/15	5/26/15 12:56	MJH

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-2

Sample ID: 15E0890-02

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:08:00AM

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:18	KSH
Arsenic	33	2.0	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:18	KSH
Barium	360	50	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:18	KSH
Cadmium	ND	2.5	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:18	KSH
Chromium	31	5.0	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:18	KSH
Copper	71	25	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:18	KSH
Iron	19	0.050	mg/L	1		SW-846 6010C	5/20/15	5/21/15 15:00	MJH
Lead	71	5.0	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:18	KSH
Mercury	0.00011	0.00010	mg/L	1		SW-846 7470A	5/20/15	5/21/15 9:46	SCB
Nickel	210	25	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:18	KSH
Selenium	29	25	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:18	KSH
Silver	ND	2.5	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:18	KSH
Zinc	57	50	g/L	5		SW-846 6020A	5/20/15	5/21/15 10:18	KSH

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-2

Sample ID: 15E0890-02

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:08:00AM

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	2100	200	mg/L	200		SM21-22 4500 CL B	5/20/15	5/20/15 19:50	DJM
Chlorine, Residual	ND	0.020	mg/L	1		SM21-22 4500 CL G	5/19/15	5/19/15 22:35	DJM
Cyanide	0.15	0.010	mg/L	1		SM21-22 4500 CN E	5/21/15	5/22/15 13:15	VAK
Hexavalent Chromium	ND	0.0040	mg/L	1		SM21-22 3500 Cr B	5/19/15	5/19/15 23:20	DJM
Phenol	3.6	0.25	mg/L	5		EPA 420.1	5/20/15	5/20/15 12:00	LL
Total Suspended Solids	140	12	mg/L	1		SM21-22 2540D	5/20/15	5/20/15 13:00	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L	1		EPA 1664B	5/21/15	5/21/15 12:30	LL

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

Project Location: Seafood Way. Boston, MA

Sample Description:

Work Order: 15E0890

Date Received: 5/19/2015

Field Sample #: MW-2

Sample ID: 15E0890-02

Start Date/Time: 5/19/2015 7:00:00AM

Sample Matrix: Ground Water

Stop Date/Time: 5/19/2015 8:08:00AM

Drinking Water Organics EPA 504.1

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2-Dibromoethane (EDB) (2)	ND	0.020	g/L	1		EPA 504.1	5/22/15	5/22/15 15:10	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,3-Dibromopropane (1)	132	*	70-130		S-13			5/22/15 15:10	
1,3-Dibromopropane (2)	132	*	70-130		S-13			5/22/15 15:10	

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

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date	
15E0890-01 MW-1]	B122249	900	05/21/15	
15E0890-02 MW-2]	B122249	1000	05/21/15	

EPA 420.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B121591	50.0	50.0	05/20/15
15E0890-02 MW-2]	B121591	50.0	50.0	05/20/15

Prep Method: EPA 504 water-EPA 504.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122391	35.0	35.0	05/22/15
15E0890-02 MW-2]	B122391	35.0	35.0	05/22/15

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date	
15E0890-01 MW-1]	B122156	100	05/20/15	
15E0890-02 MW-2]	B122156	40.0	05/20/15	

SM21-22 3500 Cr B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122136	50.0	50.0	05/19/15
15E0890-02 MW-2]	B122136	50.0	50.0	05/19/15

SM21-22 4500 CL B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122233	100	100	05/20/15
15E0890-02 MW-2]	B122233	100	100	05/20/15

SM21-22 4500 CL G

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122135	100	100	05/19/15
15E0890-02 MW-2]	B122135	100	100	05/19/15

SM21-22 4500 CN E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122286	50.0	50.0	05/21/15
15E0890-02 MW-2]	B122286	50.0	50.0	05/21/15

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

Sample Extraction Data

Prep Method: SW-846 3005A Dissolved-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122219	50.0	50.0	05/20/15
15E0890-02 MW-2]	B122219	50.0	50.0	05/20/15

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122287	50.0	50.0	05/21/15
15E0890-02 MW-2]	B122287	50.0	50.0	05/21/15

Prep Method: SW-846 3005A Dissolved-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122218	50.0	50.0	05/20/15
15E0890-02 MW-2]	B122218	50.0	50.0	05/20/15

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122160	6.00	6.00	05/20/15
15E0890-02 MW-2]	B122160	6.00	6.00	05/20/15

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122167	1000	10.0	05/20/15
15E0890-02 MW-2]	B122167	1000	10.0	05/20/15

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122270	5	5.00	05/21/15
15E0890-02 MW-2]	B122270	0.5	5.00	05/21/15

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122137	1000	1.00	05/20/15
15E0890-02 MW-2]	B122137	1000	1.00	05/20/15
15E0890-02RE1 MW-2]	B122137	1000	1.00	05/20/15

Prep Method: SW-846 3005A-Tri Chrome Calc.

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15E0890-01 MW-1]	B122288	1.00	1.00	05/21/15
15E0890-02 MW-2]	B122288	1.00	1.00	05/21/15

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

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122270 - SW-846 5030B										
Blank (B122270-BLK1)				Prepared: 05/21/15 Analyzed: 05/22/15						
Acetone	ND	10	g/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	g/L							
Benzene	ND	1.0	g/L							
Bromobenzene	ND	1.0	g/L							
Bromochloromethane	ND	1.0	g/L							
Bromodichloromethane	ND	1.0	g/L							
Bromoform	ND	1.0	g/L							
Bromomethane	ND	5.0	g/L							
2-Butanone (MEK)	ND	10	g/L							
n-Butylbenzene	ND	1.0	g/L							
sec-Butylbenzene	ND	1.0	g/L							
tert-Butylbenzene	ND	1.0	g/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	g/L							
Carbon Disulfide	ND	5.0	g/L							
Carbon Tetrachloride	ND	1.0	g/L							
Chlorobenzene	ND	1.0	g/L							
Chlorodibromomethane	ND	0.50	g/L							
Chloroethane	ND	2.0	g/L							
Chloroform	ND	2.0	g/L							
Chloromethane	ND	2.0	g/L							
2-Chlorotoluene	ND	1.0	g/L							
4-Chlorotoluene	ND	1.0	g/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	g/L							
1,2-Dibromoethane (EDB)	ND	0.50	g/L							
Dibromomethane	ND	1.0	g/L							
1,2-Dichlorobenzene	ND	1.0	g/L							
1,3-Dichlorobenzene	ND	1.0	g/L							
1,4-Dichlorobenzene	ND	1.0	g/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	g/L							V-05
1,1-Dichloroethane	ND	1.0	g/L							
1,2-Dichloroethane	ND	1.0	g/L							
1,1-Dichloroethylene	ND	1.0	g/L							
cis-1,2-Dichloroethylene	ND	1.0	g/L							
trans-1,2-Dichloroethylene	ND	1.0	g/L							
1,2-Dichloropropane	ND	1.0	g/L							
1,3-Dichloropropane	ND	0.50	g/L							
2,2-Dichloropropane	ND	1.0	g/L							V-05
1,1-Dichloropropene	ND	0.50	g/L							
cis-1,3-Dichloropropene	ND	0.40	g/L							
trans-1,3-Dichloropropene	ND	0.40	g/L							
Diethyl Ether	ND	2.0	g/L							
Diisopropyl Ether (DIPE)	ND	0.50	g/L							
1,4-Dioxane	ND	50	g/L							V-16
Ethylbenzene	ND	1.0	g/L							
Hexachlorobutadiene	ND	0.50	g/L							
2-Hexanone (MBK)	ND	10	g/L							
Isopropylbenzene (Cumene)	ND	1.0	g/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	g/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	g/L							
Methylene Chloride	ND	5.0	g/L							
4-Methyl-2-pentanone (MIBK)	ND	10	g/L							
Naphthalene	ND	2.0	g/L							

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122270 - SW-846 5030B										
Blank (B122270-BLK1)				Prepared: 05/21/15 Analyzed: 05/22/15						
n-Propylbenzene	ND	1.0	g/L							
Styrene	ND	1.0	g/L							
1,1,1,2-Tetrachloroethane	ND	1.0	g/L							
1,1,2,2-Tetrachloroethane	ND	0.50	g/L							
Tetrachloroethylene	ND	1.0	g/L							
Tetrahydrofuran	ND	2.0	g/L							
Toluene	ND	1.0	g/L							
1,2,3-Trichlorobenzene	ND	2.0	g/L							
1,2,4-Trichlorobenzene	ND	1.0	g/L							
1,1,1-Trichloroethane	ND	1.0	g/L							
1,1,2-Trichloroethane	ND	1.0	g/L							
Trichloroethylene	ND	1.0	g/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	g/L							
1,2,3-Trichloropropane	ND	2.0	g/L							
1,2,4-Trimethylbenzene	ND	1.0	g/L							
1,3,5-Trimethylbenzene	ND	1.0	g/L							
Vinyl Chloride	ND	2.0	g/L							
m+p Xylene	ND	2.0	g/L							
o-Xylene	ND	1.0	g/L							
Surrogate: 1,2-Dichloroethane-d4	22.3		µg/L	25.0		89.0	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		g/L	25.0		101	70-130			
LCS (B122270-BS1)				Prepared & Analyzed: 05/21/15						
Acetone	104	10	g/L	100		104	40-160			†
tert-Amyl Methyl Ether (TAME)	8.38	0.50	g/L	10.0		83.8	70-130			
Benzene	9.72	1.0	g/L	10.0		97.2	70-130			
Bromobenzene	9.64	1.0	g/L	10.0		96.4	70-130			
Bromochloromethane	10.0	1.0	g/L	10.0		100	70-130			
Bromodichloromethane	8.48	1.0	g/L	10.0		84.8	70-130			
Bromoform	10.0	1.0	g/L	10.0		100	70-130			
Bromomethane	6.30	5.0	g/L	10.0		63.0	40-160		L-14	†
2-Butanone (MEK)	94.4	10	g/L	100		94.4	40-160			†
n-Butylbenzene	9.33	1.0	g/L	10.0		93.3	70-130			
sec-Butylbenzene	9.93	1.0	g/L	10.0		99.3	70-130			
tert-Butylbenzene	10.0	1.0	g/L	10.0		100	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.92	0.50	g/L	10.0		89.2	70-130			
Carbon Disulfide	11.6	5.0	g/L	10.0		116	70-130			
Carbon Tetrachloride	9.47	1.0	g/L	10.0		94.7	70-130			
Chlorobenzene	10.1	1.0	g/L	10.0		101	70-130			
Chlorodibromomethane	8.97	0.50	g/L	10.0		89.7	70-130			
Chloroethane	8.69	2.0	g/L	10.0		86.9	70-130			
Chloroform	9.70	2.0	g/L	10.0		97.0	70-130			
Chloromethane	7.89	2.0	g/L	10.0		78.9	40-160			†
2-Chlorotoluene	9.71	1.0	g/L	10.0		97.1	70-130			
4-Chlorotoluene	9.53	1.0	g/L	10.0		95.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.56	2.0	g/L	10.0		75.6	70-130			
1,2-Dibromoethane (EDB)	9.96	0.50	g/L	10.0		99.6	70-130			
Dibromomethane	9.95	1.0	g/L	10.0		99.5	70-130			
1,2-Dichlorobenzene	9.90	1.0	g/L	10.0		99.0	70-130			
1,3-Dichlorobenzene	9.76	1.0	g/L	10.0		97.6	70-130			
1,4-Dichlorobenzene	9.59	1.0	g/L	10.0		95.9	70-130			

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

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122270 - SW-846 5030B										
LCS (B122270-BS1)				Prepared & Analyzed: 05/21/15						
Dichlorodifluoromethane (Freon 12)	5.60	2.0	g/L	10.0		56.0	40-160			L-14, V-05
1,1-Dichloroethane	9.21	1.0	g/L	10.0		92.1	70-130			
1,2-Dichloroethane	8.51	1.0	g/L	10.0		85.1	70-130			
1,1-Dichloroethylene	9.40	1.0	g/L	10.0		94.0	70-130			
cis-1,2-Dichloroethylene	8.86	1.0	g/L	10.0		88.6	70-130			
trans-1,2-Dichloroethylene	8.85	1.0	g/L	10.0		88.5	70-130			
1,2-Dichloropropane	9.14	1.0	g/L	10.0		91.4	70-130			
1,3-Dichloropropane	9.21	0.50	g/L	10.0		92.1	70-130			
2,2-Dichloropropane	7.02	1.0	g/L	10.0		70.2	70-130			V-05
1,1-Dichloropropene	9.90	0.50	g/L	10.0		99.0	70-130			
cis-1,3-Dichloropropene	9.25	0.40	g/L	10.0		92.5	70-130			
trans-1,3-Dichloropropene	9.90	0.40	g/L	10.0		99.0	70-130			
Diethyl Ether	9.42	2.0	g/L	10.0		94.2	70-130			
Diisopropyl Ether (DIPE)	8.95	0.50	g/L	10.0		89.5	70-130			
1,4-Dioxane	89.7	50	g/L	100		89.7	40-160			V-16
Ethylbenzene	10.2	1.0	g/L	10.0		102	70-130			
Hexachlorobutadiene	9.59	0.50	g/L	10.0		95.9	70-130			
2-Hexanone (MBK)	93.1	10	g/L	100		93.1	40-160			
Isopropylbenzene (Cumene)	10.2	1.0	g/L	10.0		102	70-130			
p-Isopropyltoluene (p-Cymene)	9.69	1.0	g/L	10.0		96.9	70-130			
Methyl tert-Butyl Ether (MTBE)	9.29	1.0	g/L	10.0		92.9	70-130			
Methylene Chloride	9.50	5.0	g/L	10.0		95.0	70-130			
4-Methyl-2-pentanone (MIBK)	86.2	10	g/L	100		86.2	40-160			
Naphthalene	9.69	2.0	g/L	10.0		96.9	70-130			
n-Propylbenzene	10.3	1.0	g/L	10.0		103	70-130			
Styrene	10.1	1.0	g/L	10.0		101	70-130			
1,1,1,2-Tetrachloroethane	10.0	1.0	g/L	10.0		100	70-130			
1,1,2,2-Tetrachloroethane	9.51	0.50	g/L	10.0		95.1	70-130			
Tetrachloroethylene	9.36	1.0	g/L	10.0		93.6	70-130			
Tetrahydrofuran	8.16	2.0	g/L	10.0		81.6	70-130			
Toluene	9.79	1.0	g/L	10.0		97.9	70-130			
1,2,3-Trichlorobenzene	9.54	2.0	g/L	10.0		95.4	70-130			
1,2,4-Trichlorobenzene	9.37	1.0	g/L	10.0		93.7	70-130			
1,1,1-Trichloroethane	9.54	1.0	g/L	10.0		95.4	70-130			
1,1,2-Trichloroethane	9.86	1.0	g/L	10.0		98.6	70-130			
Trichloroethylene	9.79	1.0	g/L	10.0		97.9	70-130			
Trichlorofluoromethane (Freon 11)	8.85	2.0	g/L	10.0		88.5	70-130			
1,2,3-Trichloropropane	9.74	2.0	g/L	10.0		97.4	70-130			
1,2,4-Trimethylbenzene	9.62	1.0	g/L	10.0		96.2	70-130			
1,3,5-Trimethylbenzene	9.72	1.0	g/L	10.0		97.2	70-130			
Vinyl Chloride	8.07	2.0	g/L	10.0		80.7	70-130			
m+p Xylene	19.9	2.0	g/L	20.0		99.3	70-130			
o-Xylene	10.0	1.0	g/L	10.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.5		µg/L	25.0		89.8	70-130			
Surrogate: Toluene-d8	24.7		µg/L	25.0		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		g/L	25.0		100	70-130			

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122270 - SW-846 5030B										
LCS Dup (B122270-BSD1)				Prepared & Analyzed: 05/21/15						
Acetone	112	10	g/L	100		112	40-160	7.43	20	
tert-Amyl Methyl Ether (TAME)	8.24	0.50	g/L	10.0		82.4	70-130	1.68	20	
Benzene	9.90	1.0	g/L	10.0		99.0	70-130	1.83	20	
Bromobenzene	9.54	1.0	g/L	10.0		95.4	70-130	1.04	20	
Bromochloromethane	10.3	1.0	g/L	10.0		103	70-130	3.04	20	
Bromodichloromethane	9.16	1.0	g/L	10.0		91.6	70-130	7.71	20	
Bromoform	10.3	1.0	g/L	10.0		103	70-130	2.55	20	
Bromomethane	6.94	5.0	g/L	10.0		69.4	40-160	9.67	20	L-14
2-Butanone (MEK)	102	10	g/L	100		102	40-160	7.28	20	
n-Butylbenzene	9.54	1.0	g/L	10.0		95.4	70-130	2.23	20	
sec-Butylbenzene	10.1	1.0	g/L	10.0		101	70-130	1.50	20	
tert-Butylbenzene	9.97	1.0	g/L	10.0		99.7	70-130	0.400	20	
tert-Butyl Ethyl Ether (TBEE)	9.04	0.50	g/L	10.0		90.4	70-130	1.34	20	
Carbon Disulfide	11.5	5.0	g/L	10.0		115	70-130	0.260	20	
Carbon Tetrachloride	9.33	1.0	g/L	10.0		93.3	70-130	1.49	20	
Chlorobenzene	10.3	1.0	g/L	10.0		103	70-130	1.57	20	
Chlorodibromomethane	9.23	0.50	g/L	10.0		92.3	70-130	2.86	20	
Chloroethane	8.87	2.0	g/L	10.0		88.7	70-130	2.05	20	
Chloroform	9.64	2.0	g/L	10.0		96.4	70-130	0.620	20	
Chloromethane	8.88	2.0	g/L	10.0		88.8	40-160	11.8	20	
2-Chlorotoluene	9.89	1.0	g/L	10.0		98.9	70-130	1.84	20	
4-Chlorotoluene	9.68	1.0	g/L	10.0		96.8	70-130	1.56	20	
1,2-Dibromo-3-chloropropane (DBCP)	8.65	2.0	g/L	10.0		86.5	70-130	13.4	20	
1,2-Dibromoethane (EDB)	10.1	0.50	g/L	10.0		101	70-130	1.49	20	
Dibromomethane	9.90	1.0	g/L	10.0		99.0	70-130	0.504	20	
1,2-Dichlorobenzene	10.1	1.0	g/L	10.0		101	70-130	2.40	20	
1,3-Dichlorobenzene	10.0	1.0	g/L	10.0		100	70-130	2.63	20	
1,4-Dichlorobenzene	10.0	1.0	g/L	10.0		100	70-130	4.49	20	
Dichlorodifluoromethane (Freon 12)	5.74	2.0	g/L	10.0		57.4	40-160	2.47	20	L-14, V-05
1,1-Dichloroethane	9.22	1.0	g/L	10.0		92.2	70-130	0.109	20	
1,2-Dichloroethane	8.62	1.0	g/L	10.0		86.2	70-130	1.28	20	
1,1-Dichloroethylene	9.25	1.0	g/L	10.0		92.5	70-130	1.61	20	
cis-1,2-Dichloroethylene	8.98	1.0	g/L	10.0		89.8	70-130	1.35	20	
trans-1,2-Dichloroethylene	8.86	1.0	g/L	10.0		88.6	70-130	0.113	20	
1,2-Dichloropropane	9.65	1.0	g/L	10.0		96.5	70-130	5.43	20	
1,3-Dichloropropane	9.58	0.50	g/L	10.0		95.8	70-130	3.94	20	
2,2-Dichloropropane	6.95	1.0	g/L	10.0		69.5 *	70-130	1.00	20	L-07, V-05
1,1-Dichloropropene	9.99	0.50	g/L	10.0		99.9	70-130	0.905	20	
cis-1,3-Dichloropropene	9.27	0.40	g/L	10.0		92.7	70-130	0.216	20	
trans-1,3-Dichloropropene	10.1	0.40	g/L	10.0		101	70-130	1.70	20	
Diethyl Ether	9.35	2.0	g/L	10.0		93.5	70-130	0.746	20	
Diisopropyl Ether (DIPE)	8.87	0.50	g/L	10.0		88.7	70-130	0.898	20	
1,4-Dioxane	93.3	50	g/L	100		93.3	40-160	3.92	20	V-16
Ethylbenzene	10.2	1.0	g/L	10.0		102	70-130	0.295	20	
Hexachlorobutadiene	10.0	0.50	g/L	10.0		100	70-130	4.68	20	
2-Hexanone (MBK)	100	10	g/L	100		100	40-160	7.32	20	
Isopropylbenzene (Cumene)	10.3	1.0	g/L	10.0		103	70-130	1.37	20	
p-Isopropyltoluene (p-Cymene)	9.83	1.0	g/L	10.0		98.3	70-130	1.43	20	
Methyl tert-Butyl Ether (MTBE)	9.31	1.0	g/L	10.0		93.1	70-130	0.215	20	
Methylene Chloride	9.73	5.0	g/L	10.0		97.3	70-130	2.39	20	
4-Methyl-2-pentanone (MIBK)	92.4	10	g/L	100		92.4	40-160	6.86	20	
Naphthalene	10.3	2.0	g/L	10.0		103	70-130	6.49	20	

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

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122270 - SW-846 5030B										
LCS Dup (B122270-BSD1)				Prepared & Analyzed: 05/21/15						
n-Propylbenzene	10.3	1.0	g/L	10.0		103	70-130	0.291	20	
Styrene	10.1	1.0	g/L	10.0		101	70-130	0.198	20	
1,1,1,2-Tetrachloroethane	10.2	1.0	g/L	10.0		102	70-130	1.88	20	
1,1,2,2-Tetrachloroethane	9.97	0.50	g/L	10.0		99.7	70-130	4.72	20	
Tetrachloroethylene	9.60	1.0	g/L	10.0		96.0	70-130	2.53	20	
Tetrahydrofuran	9.14	2.0	g/L	10.0		91.4	70-130	11.3	20	
Toluene	9.86	1.0	g/L	10.0		98.6	70-130	0.712	20	
1,2,3-Trichlorobenzene	10.3	2.0	g/L	10.0		103	70-130	7.85	20	
1,2,4-Trichlorobenzene	9.71	1.0	g/L	10.0		97.1	70-130	3.56	20	
1,1,1-Trichloroethane	9.63	1.0	g/L	10.0		96.3	70-130	0.939	20	
1,1,2-Trichloroethane	10.0	1.0	g/L	10.0		100	70-130	1.81	20	
Trichloroethylene	10.0	1.0	g/L	10.0		100	70-130	2.12	20	
Trichlorofluoromethane (Freon 11)	8.85	2.0	g/L	10.0		88.5	70-130	0.00	20	
1,2,3-Trichloropropane	10.3	2.0	g/L	10.0		103	70-130	5.30	20	
1,2,4-Trimethylbenzene	9.77	1.0	g/L	10.0		97.7	70-130	1.55	20	
1,3,5-Trimethylbenzene	10.1	1.0	g/L	10.0		101	70-130	3.64	20	
Vinyl Chloride	8.12	2.0	g/L	10.0		81.2	70-130	0.618	20	
m+p Xylene	20.1	2.0	g/L	20.0		100	70-130	1.10	20	
o-Xylene	10.0	1.0	g/L	10.0		100	70-130	0.299	20	
Surrogate: 1,2-Dichloroethane-d4	22.8		µg/L	25.0		91.3	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		g/L	25.0		101	70-130			

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122137 - SW-846 3510C										
Blank (B122137-BLK1)				Prepared: 05/20/15 Analyzed: 05/21/15						
Acenaphthene (low)	ND	0.30	g/L							
Acenaphthylene (low)	ND	0.30	g/L							
Acetophenone	ND	10	g/L							
Aniline	ND	5.0	g/L							
Anthracene (low)	ND	0.20	g/L							
Benzo(a)anthracene (low)	ND	0.050	g/L							
Benzo(a)pyrene (low)	ND	0.10	g/L							
Benzo(b)fluoranthene (low)	ND	0.050	g/L							
Benzo(g,h,i)perylene (low)	ND	0.50	g/L							
Benzo(k)fluoranthene (low)	ND	0.20	g/L							
Bis(2-chloroethoxy)methane	ND	10	g/L							
Bis(2-chloroethyl)ether	ND	10	g/L							
Bis(2-chloroisopropyl)ether	ND	10	g/L							
Bis(2-Ethylhexyl)phthalate	ND	10	g/L							
4-Bromophenylphenylether	ND	10	g/L							
Butylbenzylphthalate	ND	10	g/L							
4-Chloroaniline	ND	10	g/L							
2-Chloronaphthalene	ND	10	g/L							
2-Chlorophenol	ND	10	g/L							
Chrysene (low)	ND	0.20	g/L							
Dibenz(a,h)anthracene (low)	ND	0.20	g/L							
Dibenzofuran	ND	5.0	g/L							
Di-n-butylphthalate	ND	10	g/L							
1,2-Dichlorobenzene	ND	5.0	g/L							
1,3-Dichlorobenzene	ND	5.0	g/L							
1,4-Dichlorobenzene	ND	5.0	g/L							
3,3-Dichlorobenzidine	ND	10	g/L							V-20
2,4-Dichlorophenol	ND	10	g/L							
Diethylphthalate	ND	10	g/L							
2,4-Dimethylphenol	ND	10	g/L							
Dimethylphthalate	ND	10	g/L							
2,4-Dinitrophenol	ND	10	g/L							R-05
2,4-Dinitrotoluene	ND	10	g/L							
2,6-Dinitrotoluene	ND	10	g/L							
Di-n-octylphthalate	ND	10	g/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	g/L							
Fluoranthene (low)	ND	0.50	g/L							
Fluorene (low)	ND	1.0	g/L							
Hexachlorobenzene	ND	10	g/L							RL-03
Hexachlorobutadiene	ND	10	g/L							RL-03
Hexachloroethane	ND	10	g/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	g/L							
Isophorone	ND	10	g/L							
2-Methylnaphthalene (low)	ND	1.0	g/L							
2-Methylphenol	ND	10	g/L							
3/4-Methylphenol	ND	10	g/L							
Naphthalene (low)	ND	1.0	g/L							
Nitrobenzene	ND	10	g/L							
2-Nitrophenol	ND	10	g/L							
4-Nitrophenol	ND	10	g/L							R-05
Pentachlorophenol	ND	10	g/L							RL-03
Phenanthrene (low)	ND	0.050	g/L							

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B122137 - SW-846 3510C

Blank (B122137-BLK1)

Prepared: 05/20/15 Analyzed: 05/21/15

Phenol	ND	10	g/L							
Pyrene (low)	ND	1.0	g/L							
1,2,4-Trichlorobenzene	ND	5.0	g/L							
2,4,5-Trichlorophenol	ND	10	g/L							
2,4,6-Trichlorophenol	ND	10	g/L							
Surrogate: 2-Fluorophenol	56.4		µg/L	200		28.2	15-110			
Surrogate: Phenol-d6	35.2		µg/L	200		17.6	15-110			
Surrogate: Nitrobenzene-d5	61.6		µg/L	100		61.6	30-130			
Surrogate: Nitrobenzene-d5 (low)	47.6		µg/L	100		47.6	30-130			
Surrogate: 2-Fluorobiphenyl	61.8		µg/L	100		61.8	30-130			
Surrogate: 2-Fluorobiphenyl (low)	50.7		µg/L	100		50.7	30-130			
Surrogate: 2,4,6-Tribromophenol	153		µg/L	200		76.7	15-110			
Surrogate: p-Terphenyl-d14	65.8		µg/L	100		65.8	30-130			
Surrogate: p-Terphenyl-d14 (low)	42.9		g/L	100		42.9	30-130			

LCS (B122137-BS1)

Prepared: 05/20/15 Analyzed: 05/21/15

Acenaphthene	35.2	5.0	g/L	50.0		70.3	40-140			
Acenaphthene (low)	41.5	7.5	g/L	50.0		83.0	40-140			
Acenaphthylene (low)	39.4	7.5	g/L	50.0		78.8	40-140			
Acetophenone	35.5	10	g/L	50.0		71.0	40-140			
Aniline	28.3	5.0	g/L	50.0		56.6	40-140			
Anthracene (low)	41.8	5.0	g/L	50.0		83.6	40-140			
Benzo(a)anthracene (low)	40.5	1.2	g/L	50.0		81.0	40-140			
Benzo(a)pyrene (low)	42.0	2.5	g/L	50.0		84.0	40-140			
Benzo(b)fluoranthene (low)	41.1	1.2	g/L	50.0		82.2	40-140			
Benzo(g,h,i)perylene (low)	42.3	12	g/L	50.0		84.6	40-140			
Benzo(k)fluoranthene (low)	39.6	5.0	g/L	50.0		79.2	40-140			
Bis(2-chloroethoxy)methane	37.8	10	g/L	50.0		75.6	40-140			
Bis(2-chloroethyl)ether	36.3	10	g/L	50.0		72.6	40-140			
Bis(2-chloroisopropyl)ether	36.2	10	g/L	50.0		72.4	40-140			
Bis(2-Ethylhexyl)phthalate	43.6	10	g/L	50.0		87.3	40-140			
4-Bromophenylphenylether	37.6	10	g/L	50.0		75.2	40-140			
Butylbenzylphthalate	39.6	10	g/L	50.0		79.2	40-140			
4-Chloroaniline	35.0	10	g/L	50.0		69.9	15-140			
2-Chloronaphthalene	32.7	10	g/L	50.0		65.4	40-140			
2-Chlorophenol	30.7	10	g/L	50.0		61.3	30-130			
Chrysene (low)	40.2	5.0	g/L	50.0		80.4	40-140			
Dibenz(a,h)anthracene (low)	45.2	5.0	g/L	50.0		90.3	40-140			
Dibenzofuran	36.3	5.0	g/L	50.0		72.6	40-140			
Di-n-butylphthalate	37.1	10	g/L	50.0		74.2	40-140			
1,2-Dichlorobenzene	33.1	5.0	g/L	50.0		66.1	40-140			
1,3-Dichlorobenzene	31.6	5.0	g/L	50.0		63.3	40-140			
1,4-Dichlorobenzene	32.0	5.0	g/L	50.0		63.9	40-140			
3,3-Dichlorobenzidine	48.6	10	g/L	50.0		97.2	40-140			V-06
2,4-Dichlorophenol	35.8	10	g/L	50.0		71.6	30-130			
Diethylphthalate	38.5	10	g/L	50.0		77.0	40-140			
2,4-Dimethylphenol	32.3	10	g/L	50.0		64.7	30-130			
Dimethylphthalate	37.8	10	g/L	50.0		75.6	40-140			
2,4-Dinitrophenol	30.1	10	g/L	50.0		60.2	15-140			R-05
2,4-Dinitrotoluene	36.8	10	g/L	50.0		73.5	40-140			
2,6-Dinitrotoluene	40.0	10	g/L	50.0		79.9	40-140			
Di-n-octylphthalate	42.1	10	g/L	50.0		84.2	40-140			

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122137 - SW-846 3510C										
LCS (B122137-BS1)				Prepared: 05/20/15 Analyzed: 05/21/15						
1,2-Diphenylhydrazine (as Azobenzene)	39.6	10	g/L	50.0		79.3	40-140			
Fluoranthene (low)	41.7	12	g/L	50.0		83.4	40-140			
Fluorene (low)	43.2	25	g/L	50.0		86.4	40-140			
Hexachlorobenzene	38.9	10	g/L	50.0		77.8	40-140			
Hexachlorobutadiene	35.4	10	g/L	50.0		70.9	40-140			
Hexachloroethane	33.2	10	g/L	50.0		66.3	40-140			
Indeno(1,2,3-cd)pyrene (low)	43.6	5.0	g/L	50.0		87.2	40-140			
Isophorone	40.4	10	g/L	50.0		80.9	40-140			
2-Methylnaphthalene (low)	39.9	25	g/L	50.0		79.8	40-140			
2-Methylphenol	28.4	10	g/L	50.0		56.7	30-130			
3/4-Methylphenol	25.6	10	g/L	50.0		51.3	30-130			
Naphthalene (low)	38.2	25	g/L	50.0		76.3	40-140			
Nitrobenzene	36.0	10	g/L	50.0		71.9	40-140			
2-Nitrophenol	33.8	10	g/L	50.0		67.6	30-130			
4-Nitrophenol	9.88	10	g/L	50.0		19.8	15-140			R-05
Pentachlorophenol	30.8	10	g/L	50.0		61.6	30-130			
Phenanthrene (low)	40.1	1.2	g/L	50.0		80.2	40-140			
Phenol	13.2	10	g/L	50.0		26.3	15-140			
Pyrene (low)	40.2	25	g/L	50.0		80.4	40-140			
1,2,4-Trichlorobenzene	34.2	5.0	g/L	50.0		68.5	40-140			
2,4,5-Trichlorophenol	35.7	10	g/L	50.0		71.3	30-130			
2,4,6-Trichlorophenol	35.2	10	g/L	50.0		70.4	30-130			
Surrogate: 2-Fluorophenol	63.6		µg/L	200		31.8	15-110			
Surrogate: Phenol-d6	42.4		µg/L	200		21.2	15-110			
Surrogate: Nitrobenzene-d5	69.6		µg/L	100		69.6	30-130			
Surrogate: Nitrobenzene-d5 (low)	58.5		µg/L	100		58.5	30-130			
Surrogate: 2-Fluorobiphenyl	70.3		µg/L	100		70.3	30-130			
Surrogate: 2-Fluorobiphenyl (low)	56.5		µg/L	100		56.5	30-130			
Surrogate: 2,4,6-Tribromophenol	154		µg/L	200		76.9	15-110			
Surrogate: p-Terphenyl-d14	73.9		µg/L	100		73.9	30-130			
Surrogate: p-Terphenyl-d14 (low)	49.4		g/L	100		49.4	30-130			
LCS Dup (B122137-BSD1)				Prepared: 05/20/15 Analyzed: 05/21/15						
Acenaphthene	39.2	5.0	g/L	50.0		78.3	40-140	10.7	20	
Acenaphthene (low)	47.8	7.5	g/L	50.0		95.6	40-140	14.1	20	
Acenaphthylene (low)	45.3	7.5	g/L	50.0		90.6	40-140	13.9	20	
Acetophenone	39.0	10	g/L	50.0		78.0	40-140	9.34	20	
Aniline	32.0	5.0	g/L	50.0		63.9	40-140	12.1	20	
Anthracene (low)	47.8	5.0	g/L	50.0		95.6	40-140	13.5	20	
Benzo(a)anthracene (low)	46.7	1.2	g/L	50.0		93.4	40-140	14.2	20	
Benzo(a)pyrene (low)	48.5	2.5	g/L	50.0		97.0	40-140	14.5	20	
Benzo(b)fluoranthene (low)	47.6	1.2	g/L	50.0		95.2	40-140	14.6	20	
Benzo(g,h,i)perylene (low)	49.0	12	g/L	50.0		98.1	40-140	14.8	20	
Benzo(k)fluoranthene (low)	46.0	5.0	g/L	50.0		92.0	40-140	15.0	20	
Bis(2-chloroethoxy)methane	42.2	10	g/L	50.0		84.3	40-140	10.9	20	
Bis(2-chloroethyl)ether	41.6	10	g/L	50.0		83.2	40-140	13.6	20	
Bis(2-chloroisopropyl)ether	40.1	10	g/L	50.0		80.3	40-140	10.3	20	
Bis(2-Ethylhexyl)phthalate	46.4	10	g/L	50.0		92.9	40-140	6.19	20	
4-Bromophenylphenylether	40.8	10	g/L	50.0		81.6	40-140	8.24	20	
Butylbenzylphthalate	42.6	10	g/L	50.0		85.2	40-140	7.30	20	
4-Chloroaniline	39.4	10	g/L	50.0		78.8	15-140	12.0	20	
2-Chloronaphthalene	36.5	10	g/L	50.0		73.0	40-140	10.9	20	

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122137 - SW-846 3510C										
LCS Dup (B122137-BSD1)										
Prepared: 05/20/15 Analyzed: 05/21/15										
2-Chlorophenol	34.2	10	g/L	50.0		68.3	30-130	10.8	20	
Chrysene (low)	46.2	5.0	g/L	50.0		92.4	40-140	13.8	20	
Dibenz(a,h)anthracene (low)	52.4	5.0	g/L	50.0		105	40-140	14.8	20	
Dibenzofuran	40.4	5.0	g/L	50.0		80.8	40-140	10.7	20	
Di-n-butylphthalate	43.2	10	g/L	50.0		86.4	40-140	15.2	20	
1,2-Dichlorobenzene	36.0	5.0	g/L	50.0		72.1	40-140	8.65	20	
1,3-Dichlorobenzene	34.5	5.0	g/L	50.0		69.0	40-140	8.65	20	
1,4-Dichlorobenzene	35.2	5.0	g/L	50.0		70.4	40-140	9.59	20	
3,3-Dichlorobenzidine	53.8	10	g/L	50.0		108	40-140	10.2	20	V-06
2,4-Dichlorophenol	39.5	10	g/L	50.0		79.0	30-130	9.72	20	
Diethylphthalate	44.2	10	g/L	50.0		88.4	40-140	13.8	20	
2,4-Dimethylphenol	38.3	10	g/L	50.0		76.5	30-130	16.8	20	
Dimethylphthalate	41.7	10	g/L	50.0		83.5	40-140	9.88	20	
2,4-Dinitrophenol	38.0	10	g/L	50.0		76.1	15-140	23.2 *	20	R-05
2,4-Dinitrotoluene	43.6	10	g/L	50.0		87.2	40-140	17.0	20	
2,6-Dinitrotoluene	44.2	10	g/L	50.0		88.5	40-140	10.1	20	
Di-n-octylphthalate	47.4	10	g/L	50.0		94.8	40-140	11.8	20	
1,2-Diphenylhydrazine (as Azobenzene)	42.9	10	g/L	50.0		85.9	40-140	7.97	20	
Fluoranthene (low)	47.4	12	g/L	50.0		94.8	40-140	12.9	20	
Fluorene (low)	49.3	25	g/L	50.0		98.6	40-140	13.2	20	
Hexachlorobenzene	41.6	10	g/L	50.0		83.2	40-140	6.71	20	
Hexachlorobutadiene	38.0	10	g/L	50.0		75.9	40-140	6.81	20	
Hexachloroethane	36.8	10	g/L	50.0		73.7	40-140	10.5	20	
Indeno(1,2,3-cd)pyrene (low)	50.5	5.0	g/L	50.0		101	40-140	14.7	20	
Isophorone	45.2	10	g/L	50.0		90.4	40-140	11.1	20	
2-Methylnaphthalene (low)	45.4	25	g/L	50.0		90.8	40-140	12.8	20	
2-Methylphenol	29.7	10	g/L	50.0		59.4	30-130	4.58	20	
3/4-Methylphenol	28.3	10	g/L	50.0		56.5	30-130	9.68	20	
Naphthalene (low)	43.9	25	g/L	50.0		87.8	40-140	14.1	20	
Nitrobenzene	39.6	10	g/L	50.0		79.1	40-140	9.51	20	
2-Nitrophenol	37.3	10	g/L	50.0		74.7	30-130	9.90	20	
4-Nitrophenol	13.4	10	g/L	50.0		26.8	15-140	30.4 *	20	R-05
Pentachlorophenol	37.6	10	g/L	50.0		75.1	30-130	19.7	20	
Phenanthrene (low)	45.8	1.2	g/L	50.0		91.6	40-140	13.2	20	
Phenol	14.8	10	g/L	50.0		29.6	15-140	11.9	20	
Pyrene (low)	46.2	25	g/L	50.0		92.5	40-140	14.0	20	
1,2,4-Trichlorobenzene	37.8	5.0	g/L	50.0		75.6	40-140	9.80	20	
2,4,5-Trichlorophenol	41.3	10	g/L	50.0		82.7	30-130	14.7	20	
2,4,6-Trichlorophenol	39.2	10	g/L	50.0		78.4	30-130	10.8	20	
Surrogate: 2-Fluorophenol	72.0		µg/L	200		36.0	15-110			
Surrogate: Phenol-d6	47.9		µg/L	200		24.0	15-110			
Surrogate: Nitrobenzene-d5	77.8		µg/L	100		77.8	30-130			
Surrogate: Nitrobenzene-d5 (low)	65.4		µg/L	100		65.4	30-130			
Surrogate: 2-Fluorobiphenyl	75.7		µg/L	100		75.7	30-130			
Surrogate: 2-Fluorobiphenyl (low)	66.5		µg/L	100		66.5	30-130			
Surrogate: 2,4,6-Tribromophenol	179		µg/L	200		89.5	15-110			
Surrogate: p-Terphenyl-d14	78.0		µg/L	100		78.0	30-130			
Surrogate: p-Terphenyl-d14 (low)	54.6		g/L	100		54.6	30-130			

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

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B122167 - SW-846 3510C

Blank (B122167-BLK1)

Prepared: 05/20/15 Analyzed: 05/22/15

Aroclor-1016	ND	0.20	g/L							
Aroclor-1016 2C]	ND	0.20	g/L							
Aroclor-1221	ND	0.20	g/L							
Aroclor-1221 2C]	ND	0.20	g/L							
Aroclor-1232	ND	0.20	g/L							
Aroclor-1232 2C]	ND	0.20	g/L							
Aroclor-1242	ND	0.20	g/L							
Aroclor-1242 2C]	ND	0.20	g/L							
Aroclor-1248	ND	0.20	g/L							
Aroclor-1248 2C]	ND	0.20	g/L							
Aroclor-1254	ND	0.20	g/L							
Aroclor-1254 2C]	ND	0.20	g/L							
Aroclor-1260	ND	0.20	g/L							
Aroclor-1260 2C]	ND	0.20	g/L							
Aroclor-1262	ND	0.20	g/L							
Aroclor-1262 2C]	ND	0.20	g/L							
Aroclor-1268	ND	0.20	g/L							
Aroclor-1268 2C]	ND	0.20	g/L							
Surrogate: Decachlorobiphenyl	1.33		µg/L	2.00		66.5	30-150			
Surrogate: Decachlorobiphenyl 2C]	1.77		µg/L	2.00		88.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.38		µg/L	2.00		69.0	30-150			
Surrogate: Tetrachloro-m-xylene 2C]	1.68		g/L	2.00		83.8	30-150			

LCS (B122167-BS1)

Prepared: 05/20/15 Analyzed: 05/22/15

Aroclor-1016	0.40	0.20	g/L	0.500		80.0	40-140			
Aroclor-1016 2C]	0.44	0.20	g/L	0.500		87.2	40-140			
Aroclor-1260	0.39	0.20	g/L	0.500		78.8	40-140			
Aroclor-1260 2C]	0.46	0.20	g/L	0.500		91.0	40-140			
Surrogate: Decachlorobiphenyl	1.29		µg/L	2.00		64.3	30-150			
Surrogate: Decachlorobiphenyl 2C]	1.72		µg/L	2.00		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.23		µg/L	2.00		61.4	30-150			
Surrogate: Tetrachloro-m-xylene 2C]	1.48		g/L	2.00		74.2	30-150			

LCS Dup (B122167-BSD1)

Prepared: 05/20/15 Analyzed: 05/22/15

Aroclor-1016	0.35	0.20	g/L	0.500		69.1	40-140	14.6	20	
Aroclor-1016 2C]	0.38	0.20	g/L	0.500		75.4	40-140	14.5	20	
Aroclor-1260	0.34	0.20	g/L	0.500		68.5	40-140	14.1	20	
Aroclor-1260 2C]	0.39	0.20	g/L	0.500		78.2	40-140	15.1	20	
Surrogate: Decachlorobiphenyl	0.906		µg/L	2.00		45.3	30-150			
Surrogate: Decachlorobiphenyl 2C]	1.16		µg/L	2.00		58.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.05		µg/L	2.00		52.5	30-150			
Surrogate: Tetrachloro-m-xylene 2C]	1.24		g/L	2.00		62.2	30-150			

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122287 - SW-846 3005A										
Blank (B122287-BLK1)				Prepared: 05/21/15 Analyzed: 05/22/15						
Chromium	ND	0.010	mg/L							
LCS (B122287-BS2)				Prepared: 05/21/15 Analyzed: 05/22/15						
Chromium	2.00	0.010	mg/L	2.00		99.9	80-120			
LCS Dup (B122287-BSD2)				Prepared: 05/21/15 Analyzed: 05/22/15						
Chromium	2.01	0.010	mg/L	2.00		101	80-120	0.743	20	

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

QUALITY CONTROL
Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122160 - SW-846 7470A Prep										
Blank (B122160-BLK1)				Prepared: 05/20/15 Analyzed: 05/21/15						
Mercury	ND	0.00010	mg/L							
LCS (B122160-BS1)				Prepared: 05/20/15 Analyzed: 05/21/15						
Mercury	0.00169	0.00010	mg/L	0.00200		84.6	80-120			
LCS Dup (B122160-BSD1)				Prepared: 05/20/15 Analyzed: 05/21/15						
Mercury	0.00169	0.00010	mg/L	0.00200		84.7	80-120	0.140	20	
Duplicate (B122160-DUP1)				Source: 15E0890-01		Prepared: 05/20/15 Analyzed: 05/21/15				
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B122160-MS1)				Source: 15E0890-01		Prepared: 05/20/15 Analyzed: 05/21/15				
Mercury	0.00167	0.00010	mg/L	0.00200	ND	83.4	75-125			
Batch B122218 - SW-846 3005A Dissolved										
Blank (B122218-BLK1)				Prepared: 05/20/15 Analyzed: 05/21/15						
Antimony	ND	5.0	g/L							
Arsenic	ND	2.0	g/L							
Barium	ND	50	g/L							
Cadmium	ND	2.5	g/L							
Chromium	ND	5.0	g/L							
Copper	ND	25	g/L							
Lead	ND	5.0	g/L							
Nickel	ND	25	g/L							
Selenium	ND	25	g/L							
Silver	ND	2.5	g/L							
Zinc	ND	50	g/L							
LCS (B122218-BS1)				Prepared: 05/20/15 Analyzed: 05/21/15						
Antimony	543	10	g/L	500		109	80-120			
Arsenic	536	4.0	g/L	500		107	80-120			
Barium	527	100	g/L	500		105	80-120			
Cadmium	542	5.0	g/L	500		108	80-120			
Chromium	493	10	g/L	500		98.5	80-120			
Copper	528	50	g/L	500		106	80-120			
Lead	526	10	g/L	500		105	80-120			
Nickel	508	50	g/L	500		102	80-120			
Selenium	548	50	g/L	500		110	80-120			
Silver	486	5.0	g/L	500		97.2	80-120			
Zinc	549	100	g/L	500		110	80-120			

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

QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B122218 - SW-846 3005A Dissolved

LCS Dup (B122218-BSD1)

Prepared: 05/20/15 Analyzed: 05/21/15

Antimony	530	10	g/L	500		106	80-120	2.43	20	
Arsenic	526	4.0	g/L	500		105	80-120	1.83	20	
Barium	514	100	g/L	500		103	80-120	2.46	20	
Cadmium	534	5.0	g/L	500		107	80-120	1.46	20	
Chromium	488	10	g/L	500		97.6	80-120	0.925	20	
Copper	518	50	g/L	500		104	80-120	1.81	20	
Lead	520	10	g/L	500		104	80-120	1.22	20	
Nickel	499	50	g/L	500		99.8	80-120	1.82	20	
Selenium	539	50	g/L	500		108	80-120	1.73	20	
Silver	484	5.0	g/L	500		96.8	80-120	0.453	20	
Zinc	543	100	g/L	500		109	80-120	1.06	20	

Batch B122219 - SW-846 3005A Dissolved

Blank (B122219-BLK1)

Prepared: 05/20/15 Analyzed: 05/21/15

Iron	ND	0.050	mg/L							
------	----	-------	------	--	--	--	--	--	--	--

LCS (B122219-BS1)

Prepared: 05/20/15 Analyzed: 05/21/15

Iron	0.529	0.050	mg/L	0.500		106	80-120			
------	-------	-------	------	-------	--	-----	--------	--	--	--

LCS Dup (B122219-BSD1)

Prepared: 05/20/15 Analyzed: 05/21/15

Iron	0.526	0.050	mg/L	0.500		105	80-120	0.531	20	
------	-------	-------	------	-------	--	-----	--------	-------	----	--

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121591 - EPA 420.1										
Blank (B121591-BLK1)				Prepared & Analyzed: 05/20/15						
Phenol	ND	0.050	mg/L							
LCS (B121591-BS1)				Prepared & Analyzed: 05/20/15						
Phenol	0.49	0.050	mg/L	0.500		98.9	76.6-128			
LCS Dup (B121591-BSD1)				Prepared & Analyzed: 05/20/15						
Phenol	0.50	0.050	mg/L	0.500		100	76.6-128	1.57	9.7	
Batch B122135 - SM21-22 4500 CL G										
Blank (B122135-BLK1)				Prepared & Analyzed: 05/19/15						
Chlorine, Residual	ND	0.020	mg/L							
LCS (B122135-BS1)				Prepared & Analyzed: 05/19/15						
Chlorine, Residual	1.7	0.020	mg/L	1.47		115	92.3-128			
LCS Dup (B122135-BSD1)				Prepared & Analyzed: 05/19/15						
Chlorine, Residual	1.7	0.020	mg/L	1.47		113	92.3-128	1.53	5.82	
Duplicate (B122135-DUP1)				Source: 15E0890-01			Prepared & Analyzed: 05/19/15			
Chlorine, Residual	ND	0.020	mg/L		ND			NC	56.9	
Matrix Spike (B122135-MS1)				Source: 15E0890-01			Prepared & Analyzed: 05/19/15			
Chlorine, Residual	1.1	0.020	mg/L	1.00	ND	107	10-159			
Batch B122136 - SM21-22 3500 Cr B										
Blank (B122136-BLK1)				Prepared & Analyzed: 05/19/15						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B122136-BS1)				Prepared & Analyzed: 05/19/15						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		100	90.8-114			
LCS Dup (B122136-BSD1)				Prepared & Analyzed: 05/19/15						
Hexavalent Chromium	0.099	0.0040	mg/L	0.100		99.2	90.8-114	1.24	7.51	
Batch B122156 - SM21-22 2540D										
Blank (B122156-BLK1)				Prepared & Analyzed: 05/20/15						
Total Suspended Solids	ND	2.5	mg/L							

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122156 - SM21-22 2540D										
LCS (B122156-BS1)				Prepared & Analyzed: 05/20/15						
Total Suspended Solids	184	10	mg/L	200		92.0	70.4-114			
Duplicate (B122156-DUP1)				Source: 15E0890-02		Prepared & Analyzed: 05/20/15				
Total Suspended Solids	140	12	mg/L		140			1.77	5	
Batch B122233 - SM21-22 4500 CL B										
Blank (B122233-BLK1)				Prepared & Analyzed: 05/20/15						
Chloride	ND	1.0	mg/L							
LCS (B122233-BS1)				Prepared & Analyzed: 05/20/15						
Chloride	11	1.0	mg/L	11.8		96.7	87.1-113			
LCS Dup (B122233-BSD1)				Prepared & Analyzed: 05/20/15						
Chloride	12	1.0	mg/L	11.8		101	87.1-113	4.29	9.72	
Batch B122249 - EPA 1664B										
Blank (B122249-BLK1)				Prepared & Analyzed: 05/21/15						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							
LCS (B122249-BS1)				Prepared & Analyzed: 05/21/15						
Silica Gel Treated HEM (SGT-HEM)	16		mg/L	20.0		79.5	64-132			
Duplicate (B122249-DUP1)				Source: 15E0890-01		Prepared & Analyzed: 05/21/15				
Silica Gel Treated HEM (SGT-HEM)	ND	1.6	mg/L		ND			NC	18	
Matrix Spike (B122249-MS1)				Source: 15E0890-01		Prepared & Analyzed: 05/21/15				
Silica Gel Treated HEM (SGT-HEM)	170	14	mg/L	200	ND	86.0	64-132			
Batch B122286 - SM21-22 4500 CN E										
Blank (B122286-BLK1)				Prepared: 05/21/15 Analyzed: 05/22/15						
Cyanide	ND	0.010	mg/L							
LCS (B122286-BS1)				Prepared: 05/21/15 Analyzed: 05/22/15						
Cyanide	0.64	0.010	mg/L	0.748		85.9	75.5-111			
LCS Dup (B122286-BSD1)				Prepared: 05/21/15 Analyzed: 05/22/15						
Cyanide	0.65	0.010	mg/L	0.748		87.2	75.5-111	1.49	11.7	

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B122286 - SM21-22 4500 CN E

Matrix Spike (B122286-MS1)		Source: 15E0890-01		Prepared: 05/21/15 Analyzed: 05/22/15						
Cyanide	0.35	0.010	mg/L	0.352	ND	99.8	65.4-124			
Matrix Spike Dup (B122286-MSD1)		Source: 15E0890-01		Prepared: 05/21/15 Analyzed: 05/22/15						
Cyanide	0.34	0.010	mg/L	0.352	ND	98.0	65.4-124	1.78	17.9	

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

QUALITY CONTROL
Drinking Water Organics EPA 504.1 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B122391 - EPA 504 water										
Blank (B122391-BLK1)				Prepared & Analyzed: 05/22/15						
1,2-Dibromoethane (EDB)	ND	0.020	g/L							
1,2-Dibromoethane (EDB) 2C]	ND	0.020	g/L							
Surrogate: 1,3-Dibromopropane	1.21		µg/L	1.00		121	70-130			
Surrogate: 1,3-Dibromopropane 2C]	1.21		g/L	1.00		121	70-130			
LCS (B122391-BS1)				Prepared & Analyzed: 05/22/15						
1,2-Dibromoethane (EDB)	0.172	0.020	g/L	0.175		98.3	70-130			V-06
1,2-Dibromoethane (EDB) 2C]	0.164	0.020	g/L	0.175		93.7	70-130			
Surrogate: 1,3-Dibromopropane	0.911		g/L	1.00		91.1	70-130			
Surrogate: 1,3-Dibromopropane 2C]	0.904		g/L	1.00		90.4	70-130			
LCS Dup (B122391-BSD1)				Prepared & Analyzed: 05/22/15						
1,2-Dibromoethane (EDB)	0.184	0.020	g/L	0.175		105	70-130	6.74		V-06
1,2-Dibromoethane (EDB) 2C]	0.167	0.020	g/L	0.175		95.4	70-130	1.81		
Surrogate: 1,3-Dibromopropane	1.17		µg/L	1.00		117	70-130			
Surrogate: 1,3-Dibromopropane 2C]	1.18		g/L	1.00		118	70-130			

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B122167-BS1 Date(s) Analyzed: 05/22/2015 05/22/2015
Instrument ID (1): Instrument ID (2):
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.40	
	2	0.00	0.00	0.00	0.44	10
Aroclor-1260	1	0.00	0.00	0.00	0.39	
	2	0.00	0.00	0.00	0.46	16

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B122167-BSD1 Date(s) Analyzed: 05/22/2015 05/22/2015

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.35	
	2	0.00	0.00	0.00	0.38	10
Aroclor-1260	1	0.00	0.00	0.00	0.34	
	2	0.00	0.00	0.00	0.39	13

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***EPA 504.1***LCS**

Lab Sample ID: B122391-BS1 Date(s) Analyzed: 05/22/2015 05/22/2015
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane (EDB)	1	2.27	0.00	0.00	0.172	
	2	2.57	0.00	0.00	0.164	5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***EPA 504.1***LCS Dup**

Lab Sample ID: B122391-BSD1 Date(s) Analyzed: 05/22/2015 05/22/2015
Instrument ID (1): _____ Instrument ID (2): _____
GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane (EDB)	1	2.27	0.00	0.00	0.184	
	2	2.57	0.00	0.00	0.167	10

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits. Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. No results have been blank subtracted unless specified in the case narrative section.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-03	Elevated reporting limit based on lowest point in calibration. Requested reporting limit not met.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
RL-14	Elevated reporting limit due to foaming sample matrix. MA CAM reporting limit not met.
S-12	Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.
S-13	Surrogate recovery is outside of control limits on both columns. Data validation is not affected since all results are "not detected" and bias is on the high side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 420.1 in Water	
Phenol	CT,MA,NH,NY,RI,NC,ME,VA,NJ
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA,NJ
SM21-22 3500 Cr B in Water	
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NJ,NC
SM21-22 4500 CL B in Water	
Chloride	NH,CT,MA,NY,RI,NC,ME,VA,NJ
SM21-22 4500 CL G in Water	
Chlorine, Residual	CT,MA,RI,ME
SM21-22 4500 CN E in Water	
Cyanide	CT,MA,NH,NY,RI,NC,ME,VA,NJ
SW-846 6010C in Water	
Chromium	CT,NH,NY,ME,NC,VA,NJ
Iron	CT,NH,NY,ME,NC,VA,NJ
SW-846 6020A in Water	
Antimony	CT,NH,NY,NC,ME,VA,NJ
Arsenic	CT,NH,NY,NC,ME,VA,NJ
Barium	MA,NY,CT,NC,NH,ME,VA,NJ
Cadmium	CT,NH,NY,NC,ME,VA,NJ
Chromium	CT,NH,NY,NC,ME,VA,NJ
Copper	CT,NH,NY,NC,ME,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Nickel	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,NC,ME,VA,NJ
Silver	CT,NC,NH,NY,ME,VA,NJ
Zinc	CT,NH,NY,NC,ME,VA,NJ
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA,NJ
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1262 2C]	NC
Aroclor-1268	NC
Aroclor-1268 2C]	NC
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Diisopropyl Ether (DIPE)	NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Water	
Aniline	CT,NY
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenol	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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

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



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

Company Name: Tighe & Bond

Telephone: (401) 440-9342

Address: 4 Barlowe Landing Road

Project # N-1023-76

Pawtucket, MA 02859

Client PO# 64454-1

Attention: Mike Martin

Project Location: Seaford Way, Boston MA

Sampled By: MIT

Project Proposal Provided? (for billing purposes)

☐ YES ☐ NO

proposal date

Collection

Beginning Date/Time

Ending Date/Time

Con-Test Lab ID

Client Sample ID / Description

Con-Test Lab ID

Client Sample ID / Description

Con-Test Lab ID

Client Sample ID / Description

Con-Test Lab ID

Client Sample ID / Description

Con-Test Lab ID

Client Sample ID / Description

Con-Test Lab ID

Client Sample ID / Description

Con-Test Lab ID

Client Sample ID / Description

Con-Test Lab ID

Client Sample ID / Description

Con-Test Lab ID

Client Sample ID / Description

Con-Test Lab ID

Client Sample ID / Description

DATA DELIVERY (check all that apply)

☐ FAX ☐ EMAIL ☐ WEBSITE

Format: ☒ PDF ☐ EXCEL ☐ GIS

☐ OTHER

☐ "Enhanced Data Package"

*Matrix Conc Code

Grab

Composite

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

Conc Code

15E0890

Rev 04.05.12

Is your project MCP or RCP?

☐ MCP Form Required

☐ RCP Form Required

☐ MA State DW Form Required PWSID #

NELAC & AIHA-LAP, LLC

Accredited

WBE/DBE Certified

NECAC

IN AGREEMENT WITH

NECAC

IN AGREEMENT WITH

NECAC

IN AGREEMENT WITH

NECAC

IN AGREEMENT WITH

NECAC

IN AGREEMENT WITH

NECAC

IN AGREEMENT WITH

NECAC

IN AGREEMENT WITH

NECAC

IN AGREEMENT WITH

NECAC

IN AGREEMENT WITH

NECAC

IN AGREEMENT WITH

NECAC

IN AGREEMENT WITH

NECAC

IN AGREEMENT WITH

NECAC

IN AGREEMENT WITH

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



Page 1 of 2



Sample Receipt Checklist

CLIENT NAME: Tighe & Bond RECEIVED BY: KKm DATE: 5/19/15

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.7

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

Who was notified _____ Date _____ Time _____

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

Who was notified Dave Date 5/19/15 Time 1945

7) Location where samples are stored: _____

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

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

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

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

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>12</u>	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	<u>2</u>	2 oz amber/clear jar	
1 Liter Plastic	<u>2</u>	Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic	<u>6</u>	Non-ConTest Container	
40 mL Vial - type listed below	<u>14</u>	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 8 # Methanol _____

Doc# 277 # Bisulfate _____ # DI Water _____

Rev. 4 August 2013 # Thiosulfate 6 Unpreserved _____

Time and Date Frozen:

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

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

Doc #277 Rev. 4 August 2013

Who notified of False statements?

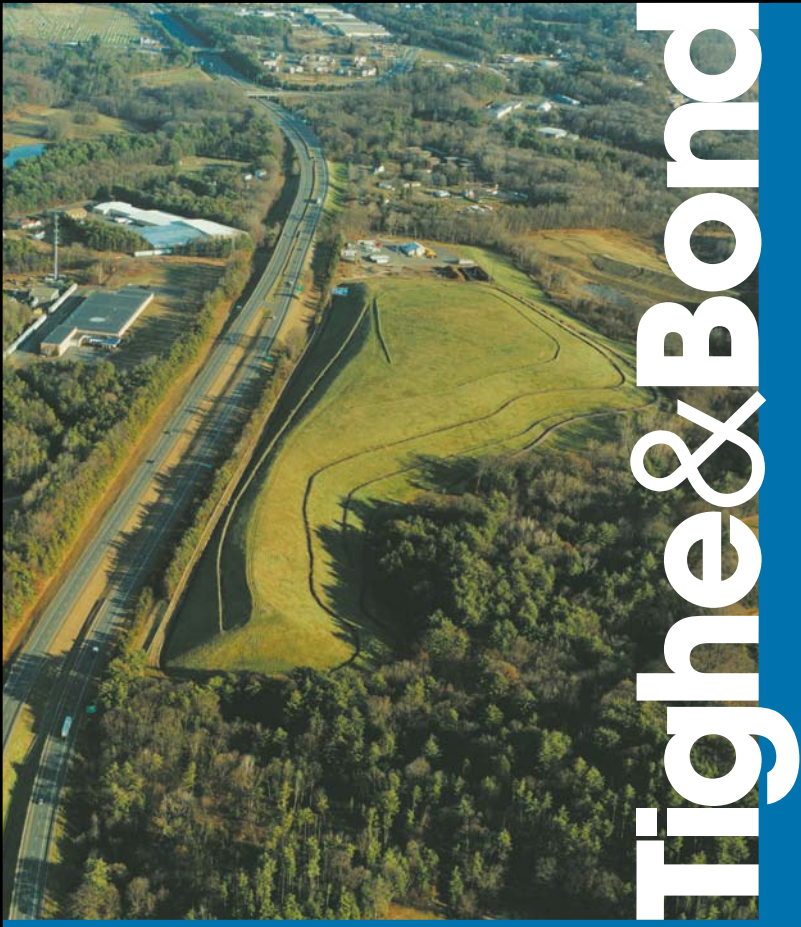
Log-In Technician Initials:

Kkm

Date/Time:

Date/Time:

5/19/15
19:45





Enter your transmittal number

X266077

Transmittal Number

Your unique Transmittal Number can be accessed online: <http://mass.gov/dep/service/online/trasmfrm.shtml>

Massachusetts Department of Environmental Protection

Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

Copy 1 - the original must accompany your permit application.
Copy 2 must accompany your fee payment.
Copy 3 should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

MassDEP
P.O. Box 4062
Boston, MA
02211

*** Note:**
For BWSC Permits, enter the LSP.

A. Permit Information

BRP WM 12 (EPA RGP NOI Form)

Remediation & Misc Contaminated Sites GP

1. Permit Code: 7 or 8 character code from permit instructions

2. Name of Permit Category

Construction dewatering (temporary)

3. Type of Project or Activity

B. Applicant Information – Firm or Individual

Eversource Energy

1. Name of Firm - Or, if party needing this approval is an individual enter name below:

2. Last Name of Individual

3. First Name of Individual

4. MI

One NSTAR Way

5. Street Address

Westwood

MA

02090

781-441-3804

6. City/Town

7. State

8. Zip Code

9. Telephone #

10. Ext. #

Michael Zylich

Michael.Zylich@eversource.com

11. Contact Person

12. e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

Station 99

1. Name of Facility, Site Or Individual

5 Seafood Way

2. Street Address

South Boston

MA

02210

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

8. DEP Facility Number (if Known)

9. Federal I.D. Number (if Known)

10. BWSC Tracking # (if Known)

D. Application Prepared by (if different from Section B)*

Tighe & Bond

1. Name of Firm Or Individual

4 Barlows Landing Road, Unit 15

2. Address

Pocasset

MA

02559

508-564-7285

3. City/Town

4. State

5. Zip Code

6. Telephone #

105

7. Ext. #

Michael E. Martin

8. Contact Person

9. LSP Number (BWSC Permits only)

E. Permit - Project Coordination

1. Is this project subject to MEPA review? ☐ yes ☒ no
If yes, enter the project's EOE file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

EOEA File Number

F. Amount Due

Special Provisions:

1. ☐ Fee Exempt (city, town or municipal housing authority)(state agency if fee is \$100 or less).
There are no fee exemptions for BWSC permits, regardless of applicant status.
2. ☐ Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
3. ☐ Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
4. ☐ Homeowner (according to 310 CMR 4.02).

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

155380

Check Number

\$950

Dollar Amount

May 21, 2015

Date