



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

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

CERTIFIED MAIL RETURN RECEIPT REQUESTED

MAY 31 2012

Finn O'Sullivan
Project Manager
John Moriarty & Associates
3 Church Street
Winchester, MA 01890

Re: Authorization to discharge under the Remediation General Permit (RGP) –
MAG910000. Boylston West site located at 80-90 Van Ness Street and 1325 and 1345
Boylston Street, Boston, MA 02215, Suffolk County; Authorization # MAG910536

Dear Mr. O'Sullivan:

Based on the review of a Notice of Intent (NOI) submitted on behalf of Boylston West LLC by the firm McPhail Associates, Inc., for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

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

Please note the enclosed checklist includes parameters that you have marked "Believed Present." Also, please note that based on the historic presence of contamination at the proposed site you are required to treat all the parameters in the permit list included in this authorization. If these pollutants are not detected during the first six consecutive months because they were found below the minimum levels (ML) of detection established in Appendix III of the RGP they can be discontinued by filing a notice of change (NOC). Please see Appendix V of the RGP for more information.

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on a dilution factor range (DFR), due to the

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF THE HISTORY OF ARTS
AND ARCHITECTURE
1100 EAST 58TH STREET
CHICAGO, ILLINOIS 60637

OFFICE OF THE DEAN OF THE FACULTY

MAY 31 2015

Dear Mr. Dean:

I am writing to you regarding the recent meeting of the Faculty of the Department of the History of Arts and Architecture. I was pleased to participate in the meeting and to discuss the various issues that were brought before the faculty.

I am particularly interested in the discussion of the proposed changes to the curriculum. I believe that these changes are necessary in order to keep the department current and relevant in the field of the history of arts and architecture. I am confident that the faculty's decision to approve these changes will be a positive one for the department.

I am also interested in the discussion of the proposed changes to the department's administrative structure. I believe that these changes are necessary in order to improve the efficiency of the department's operations. I am confident that the faculty's decision to approve these changes will be a positive one for the department.

I am looking forward to the next meeting of the faculty and to the implementation of the proposed changes. I am confident that the faculty's decision to approve these changes will be a positive one for the department.

Sincerely,
[Signature]

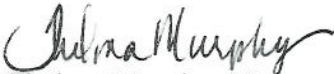
ample dilution at the point of discharge (111.76) the DFR applicable for this pollutant is within a dilution range greater than one hundred (>100) established in the RGP. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the limit for antimony of 141 ug/L, arsenic of 540 ug/L, hexavalent chromium of 1,710 ug/L, lead of 132 ug/L, zinc of 1,480ug/L and iron of 5,000 ug/L, shall not be exceeded in the discharge.

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

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on July 2014. If for any reason the discharge terminates sooner you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

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

Sincerely,



Thelma Murphy, Manager
Storm Water and Construction
Permits Section

Enclosure

cc: Kathleen Keohane, MassDEP
Paul Canavan, BWSC
Alison L. Dadona, McPhail Associates, LLC

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

NPDES Authorization Number:	MAG910536
Authorization Issued:	May, 2012
Facility/Site Name:	Boylston West
Facility/Site Address:	80-90 Van Ness Street and 1325-1345 Boylston Street, Boston, MA 02215, Suffolk County. Operator must have two treatment systems if discharge independently from each street side. Otherwise, a central treatment system that covers both street sites
	Email address of owner: Not provided
Legal Name of Operator:	John Moriarty & Associates
Operator contact name, title, and Address:	Finn O Sullivan, Project Manager, 3 church Street, Winchester, MA 01890
	Email: fosullivan@jm-a.com
Estimated date of Completion:	July, 2014
Category and Sub-Category:	Category III- Contaminated Construction Dewatering. Sub-category A & B. General Urban Fill Sites and Known Contaminated Sites
RGP Termination Date:	September 10, 2015
Receiving Water:	Charles River

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

	<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) **, 50 mg/L for hydrostatic testing **, Me#60.2/ML5ug/L
	2. Total Residual Chlorine (TRC) ¹	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
✓	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
	4. Cyanide (CN) ^{2, 3}	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 10ug/L
✓	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
✓	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ML 2ug/L
✓	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ML 2ug/L

	<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)
✓	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
✓	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)	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML

	<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)
	Phthalate]	5ug/L
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
V	a. Benzo(a) Anthracene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
V	b. Benzo(a) Pyrene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	c. Benzo(b)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	d. Benzo(k)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	e. Chrysene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	f. Dibenzo(a,h)anthracene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	g. Indeno(1,2,3-cd) Pyrene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML5ug/L
✓	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
✓	h. Acenaphthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	i. Acenaphthylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	j. Anthracene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	l. Fluoranthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	m. Fluorene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	n. Naphthalene ⁵	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	o. Phenanthrene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	37. Total Polychlorinated Biphenyls (PCBs) ^{8, 9}	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

	Metal parameter	Total Recoverable Metal Limit @ H¹⁰ = 50 mg/l CaCO₃ for discharges in Massachusetts (ug/l)^{11/12}		Minimum level=ML	
		Freshwater			
✓	39. Antimony	141/ML	10		
✓	40. Arsenic **	540/ML	20		
	41. Cadmium **	0.2/ML	10		
✓	42. Chromium III (trivalent) **	1,710/ML	15		
	43. Chromium VI (hexavalent) **	11.4/ML	10		
	44. Copper **	5.2/ML	15		
✓	45. Lead **	132/ML	20		
	46. Mercury **	0.9/ML	0.2		
	47. Nickel **	29/ML	20		
	48. Selenium **	5/ML	20		
	49. Silver	1.2/ML	10		
✓	50. Zinc **	1,480/ML	15		
✓	51. Iron	5,000/ML	20		

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

Footnotes:

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

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

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

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

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

⁶ The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

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

⁸ In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "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 For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using DF x 1,000ug/L (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =1,000 x 2 =2,000 ug/L., etc. not to exceed the DF=5.

¹² Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).

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

¹⁴ Temperature sampling per Method 170.1



**NOTICE OF INTENT FOR DISCHARGE
UNDER MASSACHUSETTS REMEDIAL
GENERAL PERMIT MAG910000**

BOYLSTON WEST

BOSTON MASSACHUSETTS

to

U.S. Environmental Protection Agency

May 7, 2012

Project No. 4532



May 7, 2012

U.S. Environmental Protection Agency
RGP-NOC Processing Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Attention: RGP-NOC Processing

Reference: Boylston West; Boston, Massachusetts
Notice of Intent for Construction Dewatering Discharge Under Massachusetts
Remedial General Permit MAG910000

Ladies and Gentlemen:

The purpose of this letter report is to provide a summary of the site and groundwater quality information in support of an application for permission from the U.S. Environmental Protection Agency (EPA) for the temporary discharge of groundwater into the Charles River during construction at the above referenced subject site. Refer to **Figure 1** Project Location Plan for the general site locus.

These services were performed for and this permit application was prepared with the authorization of Boylston West LLC. These services are subject to the limitations contained in **Attachment A**.

Fronting onto Boylston Street to the south, the subject site is bounded by Kilmarnock Street to the west, Van Ness Street to the north and commercial properties to the east. The subject site occupies a plan area of approximately 75,000 square feet and is comprised of three parcels of land: 80-90 Van Ness Street, 1345 Boylston Street and 1325 Boylston Street. The subject site is currently occupied by the following: 1345 Boylston Street - a 1-story concrete/masonry building located at the corner of Boylston and Kilmarnock Streets, which is actively used as a produce market and gym; 1325 Boylston Street - a 1-story structure fronting onto Boylston Street, which is a dry cleaner's (drop-off only) and auto car wash; and 80-90 Van Ness Street - a 2-story brick and concrete parking structure located at the corner of Kilmarnock and Van Ness Streets, referenced herein as the Kilmarnock Street Garage, with an adjacent bituminous concrete surface parking lot. The produce market and brick parking structure contain small, single level basements. The existing ground surface across the subject site is relatively level, varying from about Elevation +16 to +18. Elevations referenced herein are in feet and are referenced to the Boston City Base (BCB) datum, which is 5.65 feet below the National Geodetic Vertical Datum (NGVD) of 1929. The limits of the subject site are shown on **Figure 2**, which is based on a plan entitled Subsurface Exploration Plan.

It is understood that the proposed development plans include the demolition of the existing site structures and construction of a multi-story mixed use commercial, residential and retail building with three (3) levels of below-grade parking. The structure is planned to include a 12-story office tower and a 14-story residential tower, both with mechanical penthouses, which are interconnected by a 5-story structure. The lowest level slab within the below-grade parking garage is planned to be at about Elevation -15.3, which is between about 31 to 33 feet below existing ground surface. Excavation for building foundations are anticipated to extend to depths of about 34 to 37 feet below existing ground surface. The excavation for the below-grade portion of the development is anticipated to occupy an approximate 255-foot by 300-foot rectangular plan area. Other site improvements are planned to include the construction of New Street along the eastern limits of the parking garage, which will connect Boylston and Van Ness Streets.

Subsurface explorations conducted at the subject site indicate that the subject site is underlain by a deposit of granular fill ranging up to 17 feet deep overlying a 2- to 16-foot thick natural organic deposit. The fill and organic deposits are underlain by a 0.5- to 15-foot thick marine sand deposit overlying a thick



US EPA
Massachusetts DEP
May 7, 2012
Page 2

marine clay deposit. The surface of the marine clay deposit was encountered at depths ranging from about 23 to 34 feet below ground surface. Intermittent layers of marine sand were encountered within the marine clay deposit. The marine clay deposit was observed to extend to depths ranging from 198 to 213 feet below the ground surface and is underlain by a 6- to 25-foot thick glacial till deposit. Bedrock underlies the glacial till at a depth of about 224.5 to 235 feet across the site. Groundwater was encountered in the completed explorations at a depth of about 9.5 to 11 feet below ground surface.

Seven (7) MCP sites have been associated with the Boylston West subject site. Two (2) of these release sites are located at the 1325 Boylston Street parcel, three (3) of the release sites are located at the 1345 Boylston Street parcel and the remaining two (2) release sites are located at the 80-90 Van Ness Street parcel.

Release Tracking Numbers (RTNs) 3-2827 and 3-27805 are located at the 1325 Boylston Street portion of the subject site. This site was a former gasoline filling station and was listed as a Location to be Investigated (LTBI) for a release of gasoline to soil in January 1990. Upon completion of remedial activities, the site (RTN 3-2827) was reportedly closed by the DEP in August 1996. A release of 2-methylnaphthalene, the EPH C11-C22 aromatics and C9-C18 aliphatics, the VPH C9-C10 aromatics and naphthalene to soil, and VPH C5-C8 aliphatics and C9-C12 aliphatics, and EPH C9-C18 aliphatics to groundwater were reported to the DEP on June 27, 2008 (RTN 3-27805). On July 1, 2011, a Phase II Comprehensive Site Assessment and Phase III Remedial Action Plan Report was submitted to the DEP by McPhail on behalf of Fenway Enterprises 1325 Boylston Street LLC. Further, the results of the initial investigation indicated the presence of NAPL within a localized area of this site beneath the asphalt pavement to the north of the existing building and within the area of the above noted release to soil. Specifically, 1/4 inch and 1/10 inch of NAPL was detected in monitoring wells B-4 (OW) and B-7 (OW), respectively, during January 2008. However, recent gauging of the monitoring wells at this site in June 2011 and March 2012 did not indicate the presence of NAPL.

RTNs 3-28104, 3-29376 and 3-30283 are located at the 1345 Boylston Street portion of the subject site. On October 23, 2008, an RNF was filed with the DEP identifying the following compounds in soil at 1345 Boylston Street: the EPH C11-C22 aromatics, C9-C18 aliphatics, and C19-C36 aliphatics; and the VPH C9-C10 aromatics and C5-C8 aliphatics. The DEP subsequently assigned RTN 3-28104 to the release. A Phase I Initial Site Investigation and Tier Classification Submittal was filed with the DEP on August 24, 2009. The site was classified as a Tier II MCP site. Reportable Concentrations of petroleum constituents were not detected in groundwater samples obtained from monitoring wells located across the subject site.

Separately, on July 13, 2010, McPhail Associates, Inc. verbally notified the DEP of the intent to conduct a Utility Release Abatement Measure (URAM) within a portion of the 1345 Boylston Street property. The DEP assigned RTN 3-29376 to the URAM. As documented in the URAM Plan, the objective of the URAM was to manage the handling, on-site reuse and off-site re-use or disposal (if necessary) of excavated petroleum contaminated soils that might result from the then proposed installation of new water, sewer, and electrical utility lines within a portion of the 1345 Boylston Street site. On November 10, 2010, McPhail prepared and submitted a URAM Status Report to the DEP on behalf of Fenway Enterprises 80 Van Ness LLC. As documented therein, work under the URAM had not commenced as of the submittal date of that Report. McPhail prepared a URAM Completion Statement dated May 12, 2011. The report indicated that no work had been performed within the defined limits of the URAM area, hence, URAM activities had not been implemented at the site. McPhail indicated that the construction project with which the planned utility work was associated was cancelled, and the URAM was closed.



US EPA
Massachusetts DEP
May 7, 2012
Page 3

On August 30, 2011, Fenway Enterprises 1345 Boylston Street LLC submitted a Release Abatement Measure (RAM) Plan under RTN 3-28104 to the DEP. The objective of the RAM was to remove and dispose off-site up to six (6) suspected USTs indicated to be located beneath the central portion of the parking area in front of the existing building. As part of the removal, any liquids and sludge encountered within each tank would be removed and disposed of off-site. In addition, this RAM included the management, handling, and off-site re-use or disposal (if necessary) of excavated soils that might be contaminated.

The RAM commenced on September 6, 2011. During UST removal activities, soil that exhibited staining and odors indicative of the presence of petroleum was encountered adjacent to the USTs. Based on a jar headspace screening of the soil for the presence of TVOC using a MiniRae 3000 PID, the results indicated a TVOC level of 200 ppm. The DEP was notified of this 72-hour release condition and issued RTN 3-30283. Mr. Kenneth Sanderson of the DEP granted a verbal approval to continue the RAM work as part of an IRA. Proposed RAM activities included cleaning and removal of the tanks, excavate and dispose of up to 200 cubic yards of petroleum contaminated soil, and screen nearby utility structures for the presence of TVOC. A total of 584 gallons of a water and gasoline mix was pumped from the tanks and disposed off-site under a Uniform Hazardous Waste Manifest (UHW) at United Oil Recovery, Inc. in Meriden, Connecticut. Upon inspection and approval from a representative of the Boston Fire Department, the six tanks were removed and disposed at Brockton Iron and Steel in Brockton, Massachusetts. A total of 156.35 tons of petroleum contaminated soil that was encountered during the UST excavation was recycled off-site under a Bill of Lading (BOL) at Aggregate Recycling Corporation in Eliot, Maine. McPhail Associates submitted an IRA Completion report to the DEP on November 4, 2011 and a RAM Completion report to the DEP on December 14, 2011.

RTNs 3-18864 and 3-22571 are associated with the 80-90 Van Ness Street portion of the subject site. As indicated above, this portion of the Boylston West subject site is occupied by a 2-story parking garage and a paved surface parking lot. This site is a listed MCP site under RTN 3-18864 based on Reportable Concentrations of petroleum hydrocarbons detected in fill materials at the site. Petroleum hydrocarbons are present in fill materials at this site at levels above the Method 1 S-1 risk characterization standards, however, levels of petroleum hydrocarbons in groundwater at the site were not detected at concentrations above the applicable Method 1 GW-2 or GW-3 risk characterization standards. A Class C RAO report was filed for the RTN 3-18864 Van Ness site during October 2003, indicating that a Temporary Solution had been achieved and that No Substantial Hazard exists at the site. The results of a Method 3 Risk Characterization concluded that a Condition of No Significant Risk exists for public welfare and the environment.

Our review of the data contained in the above referenced Phase II Report indicated the presence of elevated levels of EPH and VPH in the southeast corner of the 80-90 Van Ness Street property at levels above the RCS-1 standards. We note that the results of testing of a sample of groundwater obtained from groundwater monitoring well B105-OW, which was located in the immediate vicinity of the above borings, documented the presence of EPH and VPH at concentrations below the RCGW-2 Reportable Concentrations for all compounds analyzed. In summary, the report concluded that No Substantial Hazard exists at this MCP site, and that a Condition of No Significant Risk exists for public welfare and the environment.

A Periodic Review of Temporary Solution Report prepared by McPhail was submitted to the DEP on October 21, 2008. The report indicates that there were no changes or modifications at the site that are relevant under the MCP since the submittal of the Class C RAO in October 2003 that would require the



US EPA
Massachusetts DEP
May 7, 2012
Page 4

implementation of temporary measures in order to maintain these conditions.

The RTN 3-22571 MCP site is located beneath the Kilmarnock Street Public Right-of-Way adjacent to the west side of the 80-90 Van Ness Street portion of the subject site. The site is currently listed with the DEP for a release of petroleum hydrocarbons from a former UST located beneath Kilmarnock Street. The source of the petroleum contamination (a former UST) has been removed and eliminated. Residual levels of petroleum hydrocarbons remain in site soils within a localized area beneath the public right-of-way, but at levels that pose No Significant Risk. McPhail Associates, Inc. previously performed two (2) rounds of quarterly groundwater sampling and testing of monitoring wells at this site. The results indicated no impacts to groundwater. On February 16, 2007, a Class A-2 RAO was filed with the DEP indicating that a Permanent Solution had been achieved and that a Condition of No Significant Risk exists, and that the RAO relies on the public right-of-way exemption for an Activity and Use Limitation (AUL) that is set forth in the MCP.

During the period from February 20 to March 12, 2012, subsurface explorations were performed at the Boylston West site to pre-characterize soil and groundwater in anticipation of site redevelopment. The analytical results of soil samples identified Reportable Concentrations of some semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), volatile petroleum hydrocarbons (VPH), PCBs and total metals including arsenic, barium, cadmium and lead at localized areas across the subject property. These compounds are referred to herein as contaminants of concern. With respect to the TPH/VPH and SVOC contamination, these compounds were detected at concentrations consistent with those levels previously reported to the DEP under RTNs 3-27805, 3-28104 and 3-18864, and therefore, do not represent a new reporting condition at the subject site. With respect to the metals, PCB and VOC contamination identified, as required under the MCP, a Release Notification Form (RNF) must be submitted to the DEP by the owner or operator of the site within 120 days of that party obtaining knowledge of the release. That 120-day deadline is August 16, 2012.

Excavation within the proposed building footprint will extend to a depth of approximately 24 to 28 feet below the observed groundwater level. In order to permit construction of the below grade parking garage and provide an effective groundwater cut-off during construction, a continuously interlocking steel sheet pile wall will be installed into the underlying marine clay deposit just beyond the perimeter foundation walls of the structure. Also, perimeter foundations will be formed a minimum of 2 feet into the clay deposit to create a groundwater seal. Hence, construction dewatering will be required within the groundwater cut-off area to allow the construction of the below-grade portion of the concrete slab and foundations. The majority of the anticipated dewatering will occur during excavation following the installation of the groundwater cut-off. Additional minor dewatering may occur during installation of the lowest elevation concrete slab and footings.

It is estimated that intermittent groundwater discharge required during the initial stages of the excavation phase of the construction will be on the order of 50 to 100 gallons per minute (GPM). The quantity of groundwater discharge is based on the relatively pervious nature of the upper portion of existing fill material and the presence of the sheet piling surrounding the excavation which will act as a groundwater cut-off. A reduction in the rate of discharge is anticipated to occur during excavation of the less permeable marine clay deposit. A rate of discharge of 20 to 50 GPM is envisioned during this stage of excavation. These estimates of discharge do not include surface runoff which will be removed from the excavation during the limited duration of a rain storm and shortly thereafter.

Since the footprint of the proposed construction will occupy a majority of the subject site's area and the



US EPA
Massachusetts DEP
May 7, 2012
Page 5

groundwater cut-off wall will be installed at the perimeter of the site, temporary on-site collection and recharge of groundwater is not feasible. After treatment (described below), construction related dewatering of groundwater will be discharged directly into catch basins associated with the City of Boston Water and Sewer Commission (BWSC) storm drain system along Van Ness Street, Kilmarnock Street and Boylston Street. Based on a map provided by BWSC, the catch basins surrounding the subject site discharge into the City of Boston storm drain system and ultimately into the Charles River. As indicated on the attached drawings obtained from BWSC, the storm drain lines run beneath Boylston Street to Kilmarnock Street or beneath Van Ness Street to Yawkey Way, where each drain line connects to a drain line beneath Brookline Avenue. The storm drain line that runs beneath Brookline Avenue connects to a storm drain line that runs beneath Deerfield Street and discharges into the Charles River near the Massachusetts Avenue/Harvard Bridge via Outfall SD0042. Therefore, given the ultimate discharge of groundwater from the subject site into the Charles River, construction dewatering will be conducted under the requested U.S. EPA Remediation General Permit (RGP).

The location of the catch basin discharge points in relation to the project site and the drainage path with discharge to the Charles River via Outfall SD0042 are indicated on **Figure 3** which was prepared from a 100-scale drawing entitled "Boston Water and Sewer" printed on April 17, 2012 by Boston Water and Sewer Commission.

Based on the results of groundwater analytical testing, it is our opinion that a settling tank, bag filter and granular activated carbon (GAC) filter will be required to settle out particulate matter and treatment for petroleum hydrocarbons to meet allowable discharge limits established by the US EPA prior to discharge. One settling tank 10,000-gallons in capacity, two bag filters and a GAC filter will be incorporated into the discharge system in series in order to meet allowable discharge limits for TSS and total metals established by the RGP. It is our opinion that the removal of sediment will also result in a reduction in total metals to levels below the RGP permit limits. A schematic of the treatment system is shown on **Figure 4**.

To document the effectiveness of the sedimentation system, samples of the discharge water will be obtained and tested for the presence of TSS and total metals prior to the start of discharge into the storm drain system. Should the pre-start up testing indicate that the levels of TSS and/or total metals in the effluent from the treatment system exceed the limits established under the RGP, additional treatment of the effluent will be implemented prior to initial discharge.

If the results of testing for total metals continue to indicate an exceedance of the RGP limit concentrations, then appropriate treatment will be implemented to address the exceedances. In addition, should other contaminants be detected within the discharge water during the construction dewatering phase of the project at levels that exceed the applicable effluent limitations, mitigative measures will be implemented to meet the allowable discharge limits.



US EPA
Massachusetts DEP
May 7, 2012
Page 6

In conclusion, it is our opinion that groundwater at the site is acceptable for discharge into the BWSC storm drain system and ultimately into the Charles River under a Remedial General Permit. Sampling and analysis of the influent and effluent will be carried out in accordance with the terms of the Remedial General Permit.

Supplemental information appended to this letter in support of the RGP includes the following;

- Notice of Intent Transmittal Form for Permit Application (**Appendix B**)
- A summary of groundwater analysis (**Appendix C, Table 1, Table 2, Table 3**);
- A review of Areas of Critical Concern and Endangered and Threatened Species (**Appendix D**);
- A review of National Historic Places (**Appendix E**); and
- Best Management Practice Plan (**Appendix F**)

We trust that the above satisfies your present requirements. Should you have any questions or comments concerning the above or the enclosed information, please do not hesitate to contact us.

Very truly yours,

McPHAIL ASSOCIATES, LLC


Alison L. Dadona

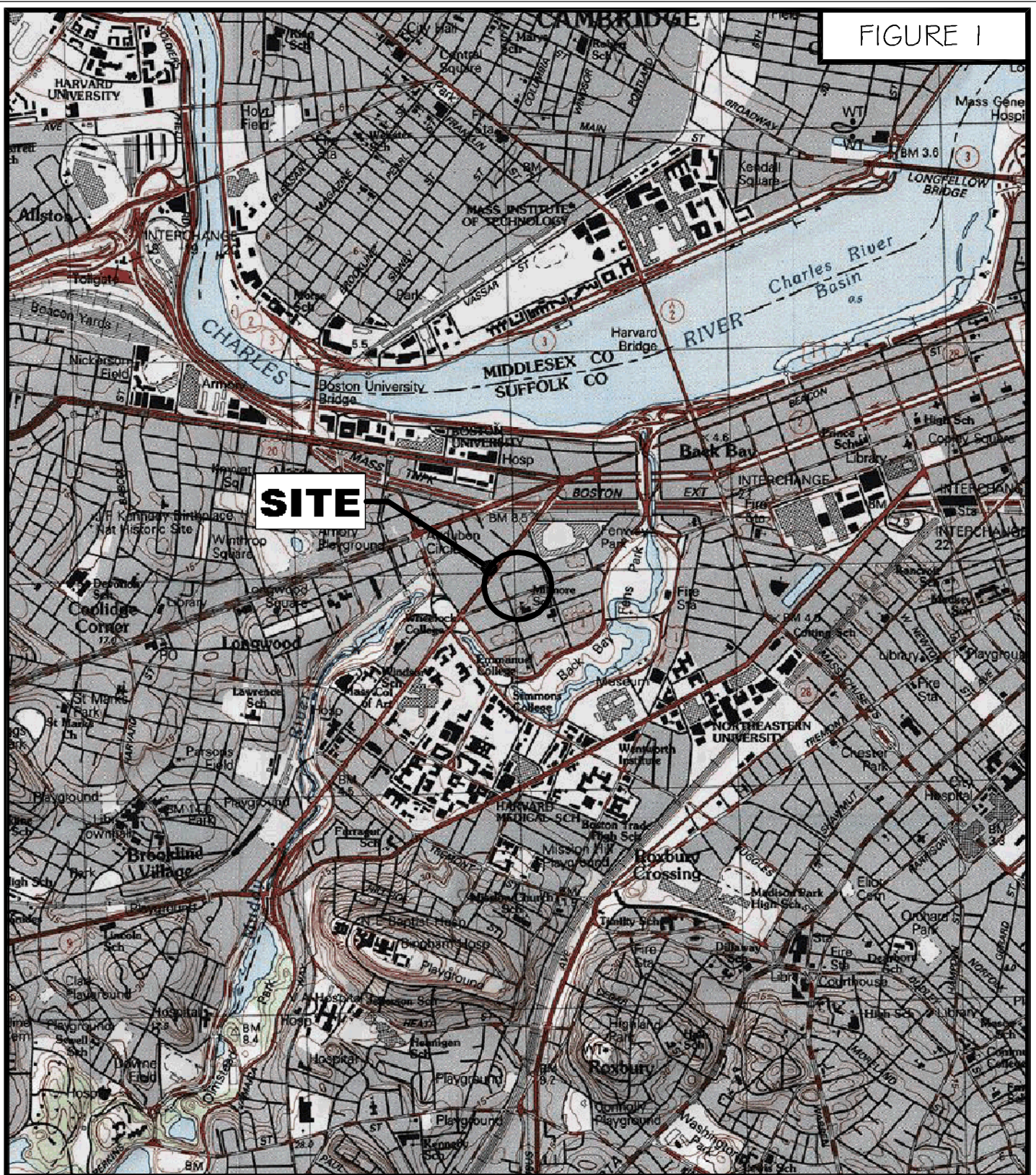

Joseph G. Lombardo Jr., L.S.P.
Enclosures

F:\WP5\REPORTS\4532 RGP.wpd

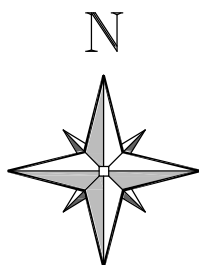
ALD/jgl

cc: Boylston West LLC

FIGURE 1



McPHAIL ASSOCIATES, LLC
Geotechnical and
Geoenvironmental Engineers
2269 Massachusetts Avenue
Cambridge, MA 02140
617/868-1420
617/868-1423 (Fax)



SCALE 1:25,000

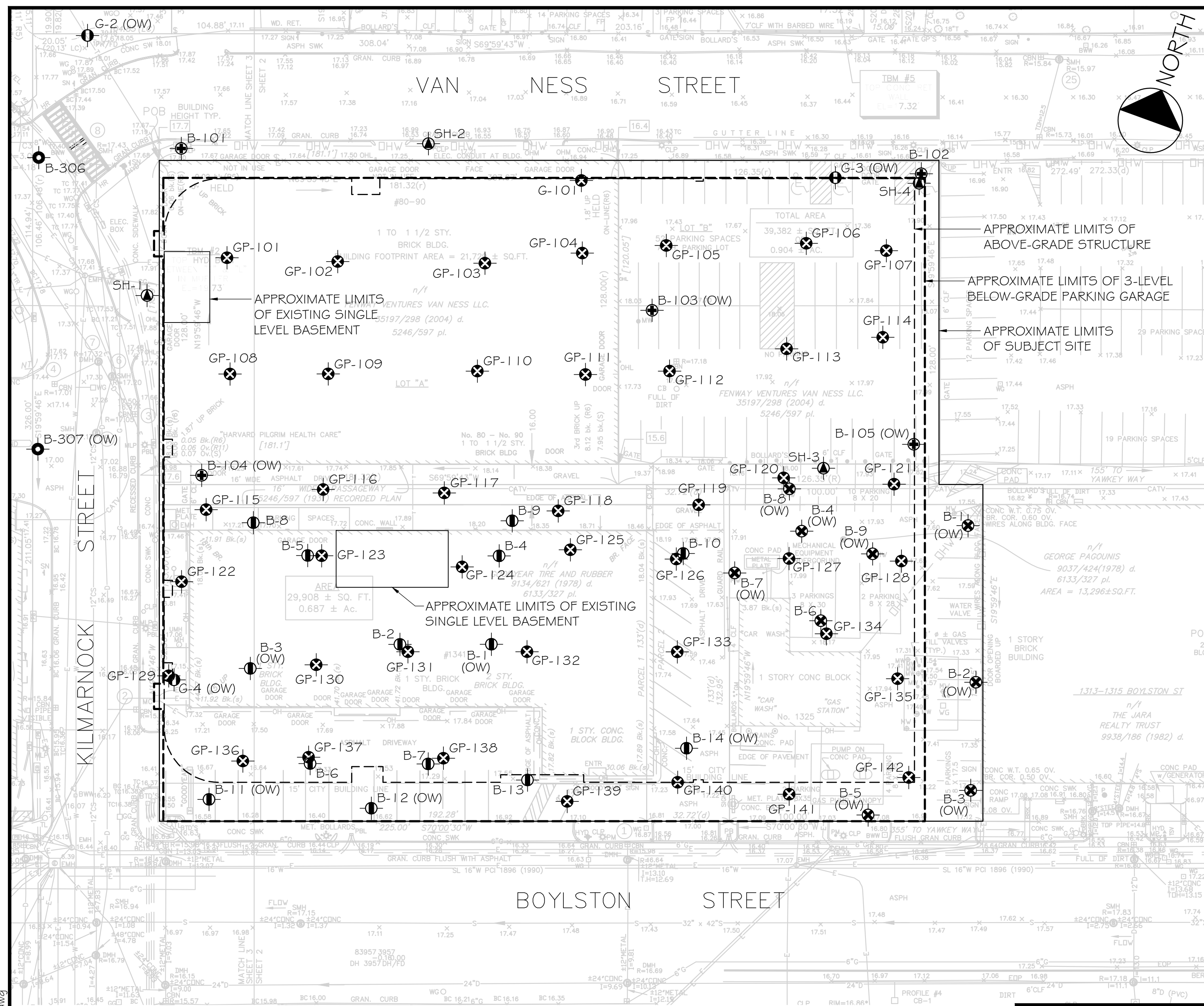
PROJECT LOCATION PLAN

BOYLSTON WEST

BOSTON

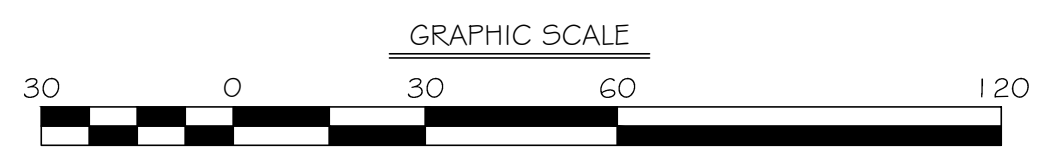
MASSACHUSETTS

FILE NAME: H:\Acad\JOB5\4532\RGF4532-FO2.dwg



- LEGEND**
- APPROXIMATE LOCATION OF BORING OR GEOPROBE PERFORMED BY GEOLOGIC EARTH EXPLORATION, INC. DURING THE PERIOD OF FEBRUARY 20 TO MARCH 12, 2012 FOR McPHAIL ASSOCIATES, LLC
 - APPROXIMATE LOCATION OF BORING PERFORMED BY CARR-DEE CORP. ON JANUARY 9, 2008 TO FEBRUARY 2008 FOR McPHAIL ASSOCIATES, INC.
 - APPROXIMATE LOCATION OF BORING PERFORMED BY CARR-DEE CORP. ON DECEMBER 8 AND 23, 2007 AND JANUARY 4, 2008 FOR McPHAIL ASSOCIATES, INC.
 - APPROXIMATE LOCATION OF BORING PERFORMED BY CARR-DEE CORP. ON JUNE 22 THROUGH 29, 2006 FOR McPHAIL ASSOCIATES, INC.
 - APPROXIMATE LOCATION OF BORING PERFORMED BY CARR-DEE CORP. ON APRIL 22, 2006 FOR McPHAIL ASSOCIATES, INC.
 - APPROXIMATE LOCATION OF BORING PERFORMED BY CARR-DEE CORP. ON FEBRUARY 25, 2006 FOR McPHAIL ASSOCIATES, INC.
 - APPROXIMATE LOCATION OF BORING PERFORMED BY CARR-DEE CORP. ON MARCH 11, 2006 FOR McPHAIL ASSOCIATES, INC.
 - APPROXIMATE LOCATION OF BORING PERFORMED BY CARR-DEE CORP. DURING THE PERIOD OF MARCH 17 THROUGH 25, 2005 UNDER CONTRACT TO McPHAIL ASSOCIATES, INC.
 - APPROXIMATE LOCATION OF BORING PERFORMED BY NEW ENGLAND BORING CONTRACTORS OF CT., INC. DURING THE PERIOD OF SEPTEMBER 28 TO OCTOBER 5, 2000 FOR McPHAIL ASSOCIATES, INC.
 - APPROXIMATE LOCATION OF BORING PERFORMED BY GUILD DRILLING CO., INC. DURING THE PERIOD OF MARCH 9 TO MARCH 30, 1994 FOR HALEY AND ALDRICH, INC.
 - APPROXIMATE LOCATION OF BORING PERFORMED BY GUILD DRILLING CO., INC. DURING THE PERIOD OF MARCH 10 TO 28, 1994 FOR HALEY AND ALDRICH, INC.
- (OW) — INDICATES OBSERVATION WELL INSTALLED WITHIN COMPLETED BORING

REFERENCE: THIS PLAN WAS PREPARED FROM 20-SCALED DRAWING ENTITLED, "PROJECT F TOPOGRAPHIC PLAN OF LAND" DATED MARCH 25, 2008 PREPARED BY GUNTHER ENGINEERING. THE APPROXIMATE LIMITS OF THE ABOVE GRADE STRUCTURE, BELOW GRADE PARKING GARAGE, AND OF THE SUBJECT SITE ARE REFERENCED FROM DRAWING C-4 ENTITLED, "UTILITY PLAN," WHICH WAS PROVIDED IN THE SCHEMATIC DESIGN SET DRAWINGS COMPILED BY THE PROJECT ARCHITECT, ELKUS MANFREDI ARCHITECTS, DATED DECEMBER 5, 2011.



McPHAIL ASSOCIATES, LLC
Geotechnical and
Geoenvironmental Engineers
2269 Massachusetts Avenue
Cambridge, MA 02140
617/868-1420
617/868-1423 (Fax)

BOYLSTON WEST			
BOSTON		MASSACHUSETTS	
SUBSURFACE EXPLORATION PLAN			
FOR BOYLSTON WEST, LLC BY McPHAIL ASSOCIATES, LLC			
Date:	APRIL 2012	Dwn:	F.G.P.
Chkd:	A.L.D.	Scale:	1" = 30'
Project No:	4532		FIGURE 2

FIGURE 3A

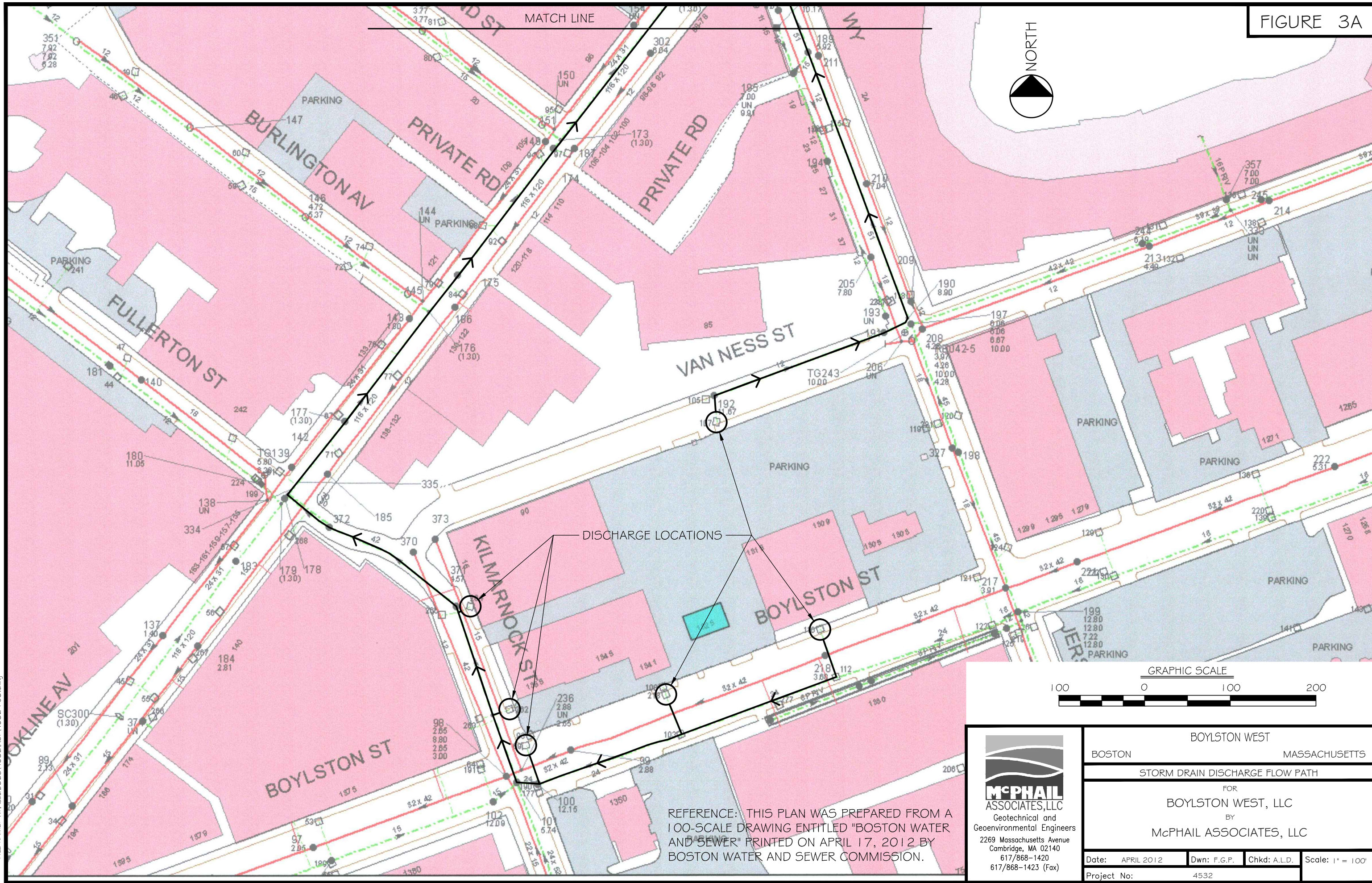
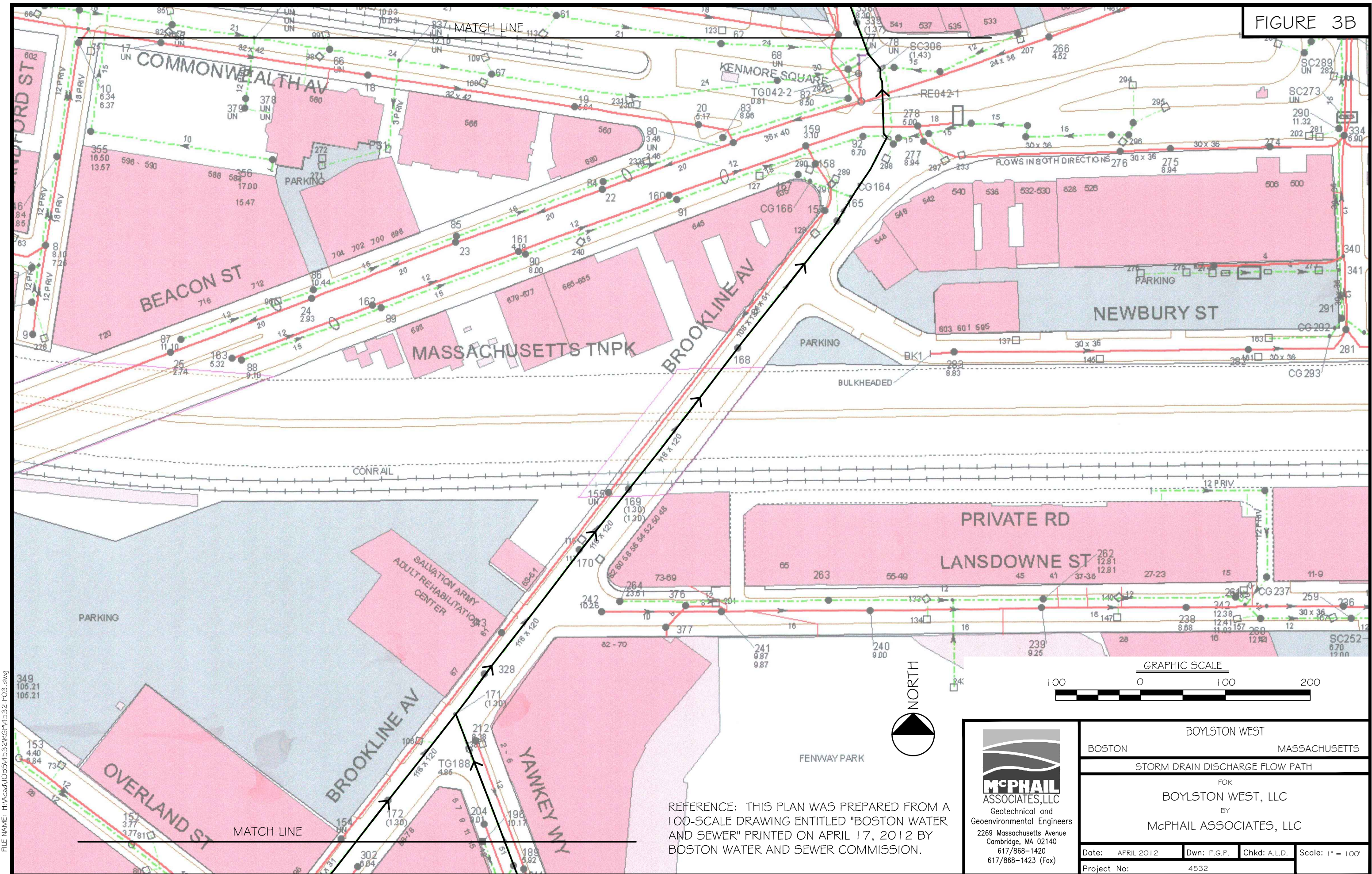


FIGURE 3B



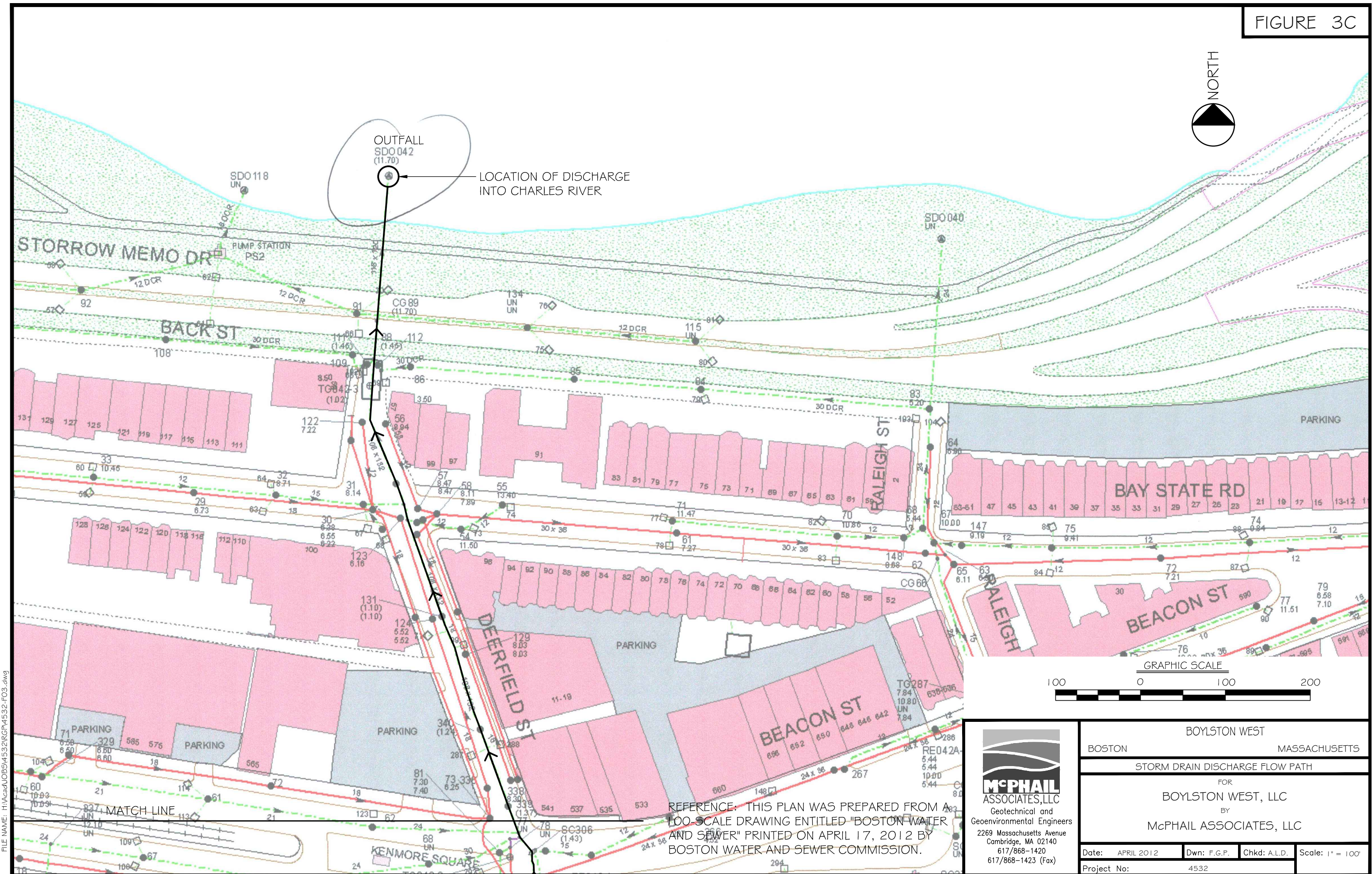
FILE NAME: H:\Acad\UBS\4532\RGV\4532-F03.dwg

REFERENCE: THIS PLAN WAS PREPARED FROM A 100-SCALE DRAWING ENTITLED "BOSTON WATER AND SEWER" PRINTED ON APRIL 17, 2012 BY BOSTON WATER AND SEWER COMMISSION.

McPHAIL ASSOCIATES, LLC
Geotechnical and
Geoenvironmental Engineers
2269 Massachusetts Avenue
Cambridge, MA 02140
617/868-1420
617/868-1423 (Fax)

BOYLSTON WEST			
BOSTON		MASSACHUSETTS	
STORM DRAIN DISCHARGE FLOW PATH			
FOR			
BOYLSTON WEST, LLC			
BY			
McPHAIL ASSOCIATES, LLC			
Date:	APRIL 2012	Dwn: F.G.P.	Chkd: A.L.D.
Project No:		4532	Scale: 1" = 100'

FIGURE 3C

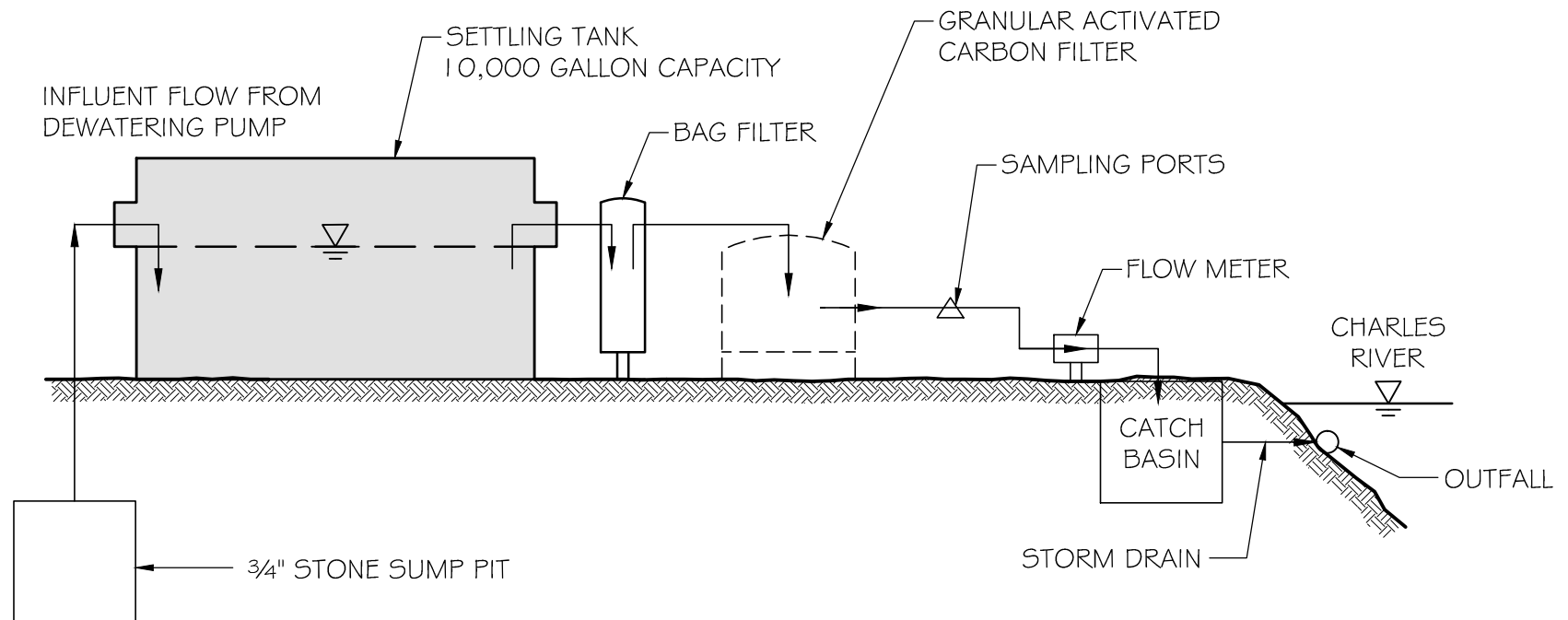


FILE NAME: H:\Acad\U0594532\RGV4532-F03.dwg

McPHAIL
ASSOCIATES, LLC
Geotechnical and
Geoenvironmental Engineers
2269 Massachusetts Avenue
Cambridge, MA 02140
617/868-1420
617/868-1423 (Fax)

BOYLSTON WEST		MASSACHUSETTS	
BOSTON			
STORM DRAIN DISCHARGE FLOW PATH			
FOR			
BOYLSTON WEST, LLC			
BY			
McPHAIL ASSOCIATES, LLC			
Date:	APRIL 2012	Dwn:	F.G.P.
Project No:	4532	Chkd:	A.L.D.
		Scale: 1" = 100'	

FIGURE 4



McPHAIL ASSOCIATES, LLC
 Geotechnical and
 Geoenvironmental Engineers
 2269 Massachusetts Avenue
 Cambridge, MA 02140
 617/868-1420
 617/868-1423 (Fax)

BOYLSTON WEST

BOSTON

MASSACHUSETTS

SCHEMATIC OF TREATMENT SYSTEM

FOR

BOYLSTON WEST, LLC

BY

McPHAIL ASSOCIATES, LLC
 CONSULTING GEOTECHNICAL ENGINEERS

Date: APRIL 2012 Dwn: F.G.P. Chkd: A.L.D. Scale: N.T.S.

Project No: 4532



APPENDIX A

LIMITATIONS

The purpose of this report is to present the results of testing of groundwater samples obtained from groundwater monitoring wells located at 80-90 Van Ness Street, 1325 Boylston Street and 1345 Boylston Street, known as Boylston West in Boston, Massachusetts, in support of an application for approval of temporary construction site dewatering discharge into surface waters of the Commonwealth of Massachusetts under the US EPA's Massachusetts Remedial General Permit MAG910000.

The observations were made under the conditions stated in this report. The conclusions presented above were based on these observations. If variations in the nature and extent of subsurface conditions between the specific subsurface explorations that were performed become evident in the future, it may be necessary to re-evaluate the conclusions presented herein after performing on-site observations and noting the characteristics of any variations.

The conclusions submitted in this report are based in part upon analytical test data obtained from analysis of groundwater samples, and are contingent upon their validity. The data have been reviewed, and interpretations have been made in the text. It should also be noted that fluctuations in the types and levels of contaminants and variations in their flow paths may occur due to changes in seasonal water table, past practices used in disposal and other factors.

Analytical analyses have been performed for specific constituents during the course of this site assessment, as described in the text. However, it should be noted that additional constituents not searched for during the current study may be present in soil and/or groundwater at the site.

This report and application have been prepared on behalf of and for the exclusive use of Boylston West LLC. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party except relevant governmental agencies associated with the subject permit application, nor used in whole or in part by any other party, without the prior written consent of McPhail Associates, LLC.



APPENDIX B

Notice of Intent Transmittal Form

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 : Boylston West		Facility/site mailing address:	
Location of facility/site :	Facility SIC code(s):	Street:	
longitude: 42.3614		80-90 Van Ness Street, 1325 and 1345 Boylston Street	
latitude: 71.0991			
b) Name of facility/site owner : Boylston West LLC		Town: Boston	
Email address of facility/site owner:		State:	Zip:
		MA	02215
Telephone no. of facility/site owner : 617-247-3434		County: Suffolk	
Fax no. of facility/site owner : 617-266-8788		Owner is (check one): 1. Federal ☐ 2. State/Tribal ☐	
Address of owner (if different from site):		3. Private ☒ 4. Other ☐ if so, describe:	
Street: 333 Newbury Street			
Town: Boston	State: MA	Zip: 02115	County: Suffolk
c) Legal name of operator :		Operator telephone no: 781-858-8791	
John Moriarty & Associates		Operator fax no.: 781-729-8456	Operator email: fosullivan@jm-a.com
Operator contact name and title: Finn O Sullivan, Project Manager			
Address of operator (if different from owner):		Street:	
		3 Church Street	
Town: Winchester	State: MA	Zip: 01890	County: Middlesex

d) Check Y for “yes” or N for “no” for the following:

1. Has a prior NPDES permit exclusion been granted for the discharge? Y ☐ N ☒, if Y, number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge?
Y ☐ N ☒, if Y, date and tracking #:
3. Is the discharge a “new discharge” as defined by 40 CFR 122.2? Y ☒ N ☐
4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y ☒ N ☐

e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y ☐ N ☒

If Y, please list:

1. site identification # assigned by the state of NH or MA:
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:

f) Is the site/facility covered by any other EPA permit, including:

1. Multi-Sector General Permit? Y ☐ N ☒,
if Y, number:
2. Final Dewatering General Permit? Y ☐ N ☒,
if Y, number:
3. EPA Construction General Permit? Y ☐ N ☒,
if Y, number:
4. Individual NPDES permit? Y ☐ N ☒,
if Y, number:
5. any other water quality related individual or general permit? Y ☐ N ☒, if Y, number:

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

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

<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:			
Temporary Construction Dewatering			
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 ³ /s)?		
6	Max. flow	0.223	Is maximum flow a design value ? Y ☐ N ☒
	Average flow (include units)	0.078 ft ³ /s	Is average flow a design value or estimate? estimate
3) Latitude and longitude of each discharge within 100 feet:			
pt.1: lat.	42.348	long.	-71.133
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 July 2012 end July 2014			
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 the attached report			

3. Contaminant information.

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

<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 value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
1. Total Suspended Solids (TSS)		☐	☒	2	grab	2540D	5000	20,000	10.9	11,250	2.2
2. Total Residual Chlorine (TRC)		☒	☐	2	grab	4500CL-D	20	ND			
3. Total Petroleum Hydrocarbons (TPH)		☐	☒	2	grab	1664A	4,000	ND			
4. Cyanide (CN)	57125	☐	☒	2	grab	9014		27	0.015	17.5	0.0033
5. Benzene (B)	71432	☐	☒	2	grab	8260B	0.5	6.5	0.0036	3.4	0.00065
6. Toluene (T)	108883	☐	☒	2	grab	8260B	1	ND			
7. Ethylbenzene (E)	100414	☐	☒	2	grab	8260B	1	ND			
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☐	☒	2	grab	8260B	(p/m,o) (2,1)	ND			
9. Total BTEX ²	n/a	☐	☒	2	grab	8260B		6.5			
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) ³	106934	☒	☐	2	grab	8260B	2	ND			
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	2	grab	8260B	2	63	0.0344	32	0.00612
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	2	grab	8260B	10	64	0.0350	34.5	0.00659

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

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

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

<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 value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
13. tert-Amyl Methyl Ether (TAME)	9940508	☒	☐	2	grab	8260B	2	ND			
14. Naphthalene	91203	☒	☐	2	grab	8270C-SIM	0.19	ND			
15. Carbon Tetrachloride	56235	☒	☐	2	grab	8260B	1.0	ND			
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	2	grab	8260B	1	ND			
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	2	grab	8260B	1	ND			
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	2	grab	8260B	1	ND			
18a. Total dichlorobenzene		☐	☐	N/A							
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	2	grab	8260B	1	4.1	0.0022	2.3	0.00044
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	2	grab	8260B	1	ND			
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	2	grab	8260B	1.0	ND			
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	2	grab	8260B	1	ND			
23. Methylene Chloride	75092	☒	☐	2	grab	8260B	2	ND			
24. Tetrachloroethene (PCE)	127184	☒	☐	2	grab	8260B	1	ND			
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	2	grab	8260B	1	ND			
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	2	grab	8260B	1	ND			
27. Trichloroethene (TCE)	79016	☒	☐	2	grab	8260B	1.0	ND			

<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 value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
28. Vinyl Chloride (Chloroethene)	75014	☒	☐	2	grab	8260B	1	ND			
29. Acetone	67641	☒	☐	2	grab	8260B	5	ND			
30. 1,4 Dioxane	123911	☒	☐	2	grab	8260B-SIM	3	ND			
31. Total Phenols	108952	☒	☐	2	grab	420.1		280	0.1530	155	0.02962
32. Pentachlorophenol (PCP)	87865	☒	☐	2	grab	8270C-SIM	0.77	ND			
33. Total Phthalates (Phthalate esters) ⁴		☒	☐	2	grab	8270C	4.8	ND			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	2	grab	8270C	2.9	ND			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	2	grab	8270C-SIM		ND			
a. Benzo(a) Anthracene	56553	☐	☒	2	grab	8270C-SIM	0.19	ND			
b. Benzo(a) Pyrene	50328	☒	☐	2	grab	8270C-SIM	0.19	ND			
c. Benzo(b)Fluoranthene	205992	☒	☐	2	grab	8270C-SIM	0.19	ND			
d. Benzo(k)Fluoranthene	207089	☒	☐	2	grab	8270C-SIM	0.19	ND			
e. Chrysene	21801	☐	☒	2	grab	8270C-SIM	0.19	ND			
f. Dibenzo(a,h)anthracene	53703	☒	☐	2	grab	8270C-SIM	0.19	ND			
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	2	grab	8270C-SIM	0.19	ND			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☐	☒	2	grab	8270C-SIM		ND			

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 value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
h. Acenaphthene	83329	☐	☒	2	grab	8270C-SIM	0.19	ND			
i. Acenaphthylene	208968	☐	☒	2	grab	8270C-SIM	0.19	ND			
j. Anthracene	120127	☐	☒	2	grab	8270C-SIM	0.19	ND			
k. Benzo(ghi) Perylene	191242	☐	☒	2	grab	8270C-SIM	0.19	ND			
l. Fluoranthene	206440	☐	☒	2	grab	8270C-SIM	0.19	ND			
m. Fluorene	86737	☐	☒	2	grab	8270C-SIM	0.19	ND			
n. Naphthalene	91203	☐	☒	2	grab	8270C-SIM	0.19	ND			
o. Phenanthrene	85018	☐	☒	2	grab	8270C-SIM	0.19	ND			
p. Pyrene	129000	☐	☒	2	grab	8270C-SIM	0.19	ND			
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	2	grab	5,608	0.252	ND			
38. Chloride	16887006	☒	☐	2	grab	44,300.0		2,000,000	1092.68	1,800,000	343.97
39. Antimony	7440360	☒	☐	2	grab	6020A		0.7	0.0004	0.7	0.00013
40. Arsenic	7440382	☒	☐	2	grab	6020A	0.5	0.6	0.0003	0.43	0.00008
41. Cadmium	7440439	☒	☐	2	grab	6020A	0.2	ND			
42. Chromium III (trivalent)	16065831	☒	☐	2	grab	6020A	0.5	2	0.0011	1.13	0.00022
43. Chromium VI (hexavalent)	18540299	☒	☐	2	grab	7196A	10	ND			
44. Copper	7440508	☒	☐	2	grab	1,6020	0.5	ND			
45. Lead	7439921	☒	☐	2	grab	1,6020	0.5	ND			
46. Mercury	7439976	☒	☐	2	grab	1,6020	0.2	ND			
47. Nickel	7440020	☒	☐	2	grab	1,6020	0.5	ND			
48. Selenium	7782492	☒	☐	2	grab	1,6020	1	30	0.0164	15.3	0.00292
49. Silver	7440224	☒	☐	2	grab	1,6020	0.4	ND			
50. Zinc	7440666	☒	☐	2	grab	1,6020		10.5	0.0057	9.95	0.00190
51. Iron	7439896	☐	☒	2	grab	1,6020		10,000	5.46	5070	0.97
Other (describe):		☒	☐								

<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 value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
		☐	☐								
		☐	☐								

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

<i>Step 1:</i> Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y ☒ N ☐	If yes, which metals? IRON, COPPER, SELENIUM								
<i>Step 2:</i> 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? <table border="1"> <tr> <td>Metal: IRON</td> <td>DF: >100</td> </tr> <tr> <td>Metal: COPPER</td> <td>DF: >100</td> </tr> <tr> <td>Metal: SELENIUM</td> <td>DF: >100</td> </tr> <tr> <td>Metal: </td> <td>DF: </td> </tr> </table> Etc.	Metal: IRON	DF: >100	Metal: COPPER	DF: >100	Metal: SELENIUM	DF: >100	Metal:	DF:	Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ☒ N ☐ If Y, list which metals: Iron, DF>100, Limit=5,000 ug/l, Detected @ 10,000 ug/l
Metal: IRON	DF: >100								
Metal: COPPER	DF: >100								
Metal: SELENIUM	DF: >100								
Metal:	DF:								

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:

10,000-gallon settling tank, bag filter, GAC filter

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ☒	Air stripper ☐	Oil/water separator ☐	Equalization tanks ☐	Bag filter ☒	GAC filter ☒
	Chlorination ☐	De-chlorination ☐	Other (please describe):			

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

Average flow rate of discharge 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):

N/A

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

a) Identify the discharge pathway:

Direct to
receiving
water ☐

Within facility
(sewer) ☐

Storm
drain ☒

Wetlands ☐

Other (describe):

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

Discharge into catch basins and into Boston storm drains, ultimately discharges to the Charles River. Please refer to attached report for further details and plan

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:

1. For multiple discharges, number the discharges sequentially.

2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water

The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

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

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(s)?

chlorophyll-a, combined biota/habitat bioassessments, DDT, dissolved oxygen, excess algal growth, oil and grease, secchi disk
transparency, nutrient/eutrophication biological indicators, phosphorus, PCB in fish tissue

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

6. ESA and NHPA Eligibility.

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

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

A ☒ B ☐ C ☐ D ☐ E ☐ F ☐

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

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

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

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

1 ☐ 2 ☒ 3 ☐

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

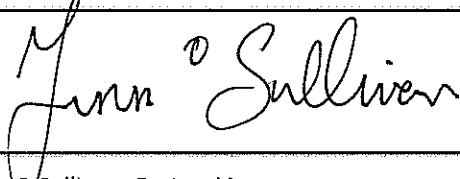
7. Supplemental information.

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

Please refer to attached report

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:	Boylston West
Operator signature:	
Printed Name & Title:	Finn O'Sullivan, Project Manager
Date:	5/9/2012



APPENDIX C

RESULTS OF RECENT GROUNDWATER ANALYSIS

On March 12, 2012, a representative of McPhail Associates, LLC obtained groundwater samples from groundwater monitoring wells B-1(OW) and B-103(OW). The groundwater samples did not exhibit the presence of a sheen or other visual or olfactory evidence of petroleum contamination. The samples were sent to a certified laboratory and analyzed for the presence of compounds required under the RGP application, including total suspended solids (TSS), total residual chlorine, total petroleum hydrocarbons (TPH), total cyanide, volatile organic compounds (VOCs) including total benzene, toluene, ethylbenzene and xylenes (BTEX), pesticides, PCBs, semi-volatile organic compounds (SVOCs) including total phenols and total phthalates, and total recoverable metals. The location of the groundwater monitoring wells is shown on **Figure 2**. The results of the March 2012 analysis are summarized in **Table 1**.

In summary, with the exception of total cyanide and total iron, the analytical results of groundwater samples from the subject site did not indicate the presence of the above mentioned compounds at concentrations which exceed the effluent limits established by the RGP Permit for discharge into a freshwater body.

Results for cyanide were 8 micrograms per liter (ug/l) for sample B-1(OW) and 27 ug/l for B-103(OW). The RGP limit for total cyanide is 5.2 ug/l. Therefore, the levels of total cyanide detected are in excess of the RGP limit. Given that elevated levels of TSS were detected in the samples, the concentration of total cyanide detected in the samples is considered attributable to the presence of soil particles in the tested sample. The concentrations of cyanide detected are below the RCGW-2 standard of 30 ug/l.

Results for iron were 10,000 micrograms per liter (ug/l) for sample B-1(OW) and below the laboratory method detection limits for B-103(OW). The RGP limit for iron is 1,000 ug/l, however, based on a calculation of the Dilution Factor the revised RGP limit for iron is 5,000 ug/l. Therefore, the levels of iron detected are in excess of the RGP limit. Given that elevated levels of TSS were detected in the samples, the concentration of iron detected in sample B-1(OW) is considered attributable to the presence of soil particles in the tested sample.



RESULTS OF PREVIOUS GROUNDWATER ANALYSIS

Between December 2007 and January 2008, a representative of McPhail Associates obtained groundwater samples from groundwater monitoring wells located at the 1325 Boylston Street portion of the subject site. Release Tracking Numbers (RTNs) 3-2827 and 3-27805 are associated with this portion of the subject site. This site was a former gasoline filling station and was listed as a Location to be Investigated (LTBI) for a release of gasoline to soil in January 1990. Upon completion of remedial activities, the RTN 3-2827 site was reportedly closed by the DEP in August 1996. A release of 2-methylnaphthalene, the EPH C11-C22 aromatics and C9-C18 aliphatics, the VPH C9-C10 aromatics and naphthalene to soil, and VPH C5-C8 aliphatics and C9-C12 aliphatics and EPH C9-C18 aliphatics to groundwater were reported to the DEP on June 27, 2008 (RTN 3-27805). Non-aqueous phase liquid (NAPL) was identified within a localized area of the site beneath asphalt pavement to the north of the existing building and within the area of the above noted release to soil. Specifically, 1/4 inch and 1/10 inch of NAPL was detected in monitoring wells B-4 (OW) and B-7 (OW), respectively, during January 2008. However, recent gauging of the monitoring wells at this site in June 2011 and March 2012 did not indicate the presence of NAPL. The results of groundwater analysis conducted between December 2007 and January 2008 are summarized in **Table 2**.

As previously discussed in the text of this report, several release sites have been identified at the 1345 Boylston Street and 80-90 Van Ness Street portions of the subject site. Specifically, RTNs 3-28104, 3-29376 and 3-30283 are located at the 1345 Boylston Street portion of the subject site and RTNs 3-18864 and 3-22571 are located at the 80-90 Van Ness Street portion of the subject site. These releases have identified metals and petroleum hydrocarbons in site soils, however, no impacts to groundwater have been identified at these two parcels. The results of groundwater analysis conducted at 1345 Boylston Street and 80-90 Van Ness Street are summarized in **Table 3**.

Laboratory test results are summarized in **Tables 1, 2 and 3** and laboratory data is attached. The results of analytical testing indicate the following:

1. **TSS:** One of the tested samples exhibited a concentration of TSS at 20,000 micrograms per liter (ug/l). The second sample had a concentration of TSS less than 5,000 ug/l. The limit established by the US EPA for discharge into surface water is 30,000 ug/l. The detected levels of TSS are considered to be attributable to the disturbance of suspended solids in the monitoring wells during development of the wells and subsequent sampling. However, it should be noted that groundwater will be pre-treated by passing the influent through a 10,000 gallon settling tank and a bag filter prior to discharge in order to reduce the concentration of TSS in the effluent.
2. **VOCs:** The groundwater samples indicated no detected levels of the target VOCs above the limits established by the US EPA for discharge into freshwater.
3. **TPH:** Laboratory analysis of the groundwater samples indicated no detectable levels of TPH. However, based on previous investigations and documented releases of EPH and VPH fractions, TPH is considered present at the subject site.



4. **PAHs and SVOCs:** Laboratory analysis of the groundwater samples indicated no detectable levels of PAHs or SVOCs. However, based on previous investigations and documented releases at the subject site, PAH fractions are considered present at the subject site.
5. **PCBs:** The laboratory results indicated no detectable levels of PCBs.
6. **Cyanide:** The laboratory results indicated concentrations of 8 ug/l and 27 ug/l of cyanide, in samples B-1(OW) and B-103(OW), respectively. The limit established by the US EPA for discharge into surface water is 5.2 ug/l. Therefore, the levels of total cyanide detected are in excess of the RGP limit. The concentrations of cyanide detected are below the RCGW-2 standard of 30 ug/l.
7. **Total Metals:** The laboratory reported no detectable levels of cadmium, chromium IV, copper, lead, mercury, nickel or silver. Levels of antimony, arsenic, chromium III, selenium and zinc were detected at concentrations below RGP discharge limits. A concentration of iron was detected at a level above the applicable RGP effluent limit in sample B-1(OW). Based on a calculation of a Dilution Factor, the concentration of iron is above the revised applicable RGP limit.

The detected concentrations of iron were 10,000 ug/l, and 140 ug/l for samples B-1(OW) and B-103(OW), respectively. The RGP limit for iron is 1,000 ug/l, however with the applied Dilution Factor the RGP limit for iron is 5,000 ug/l. Therefore, the concentration of iron is in excess of the RGP limits for discharge into freshwater.

The results of analytical analysis for the total metals in conjunction with the elevated level of Total Suspended Solids in samples B-1(OW) and B-103(OW), suggest that the elevated level of total iron is attributable to the presence of soil particles in the tested samples. As noted above, TSS reduction measures will be implemented prior to discharge to reduce the concentration of TSS and thus the iron concentration in the effluent.

Table 1
Analytical Results-Groundwater March 2012
(RGP Application)

Boylston West
Boston, MA
Job # 4532

LOCATION		RCGW-2-08	RGP Limits	RGP Limits with DF	Units	B-1 (OW)	B-103 (OW)
SAMPLING DATE						3/12/2012	3/12/2012
LAB SAMPLE ID						L1204172-01	L1204172-02
1	Total Suspended Solids		30,000		ug/l	20,000	ND(5,000)
2	Total Residual Chlorine (freshwater)		11		ug/l	ND(20)	ND(20)
3	TPH	5,000	5,000		ug/l	ND(4,000)	ND(4,000)
4	Total Cyanide (freshwater)	30	5.2		ug/l	8	27
5	Benzene	2,000	Total BTEX		ug/l	ND(0.5)	6.5
6	Toluene	40,000	Total BTEX		ug/l	ND(1)	ND(1)
7	Ethylbenzene	5,000	Total BTEX		ug/l	ND(1)	ND(1)
8	Xylene (Total)	5,000	Total BTEX		ug/l	ND	ND
9	Total BTEX		100000		ug/l	ND	6.5
10	1,2-Dibromoethane	2	0		ug/l	ND(2)	ND(2)
11	Methyl-tert-Butyl Ether (MtBE)	5,000	70		ug/l	ND(2)	63
12	tert-Butyl Alcohol (TBA) (Tertiary Butanol)		Monitor Only		ug/l	64	ND(10)
13	tert-Amyl Methyl Ether (TAME)		Monitor Only		ug/l	ND(2)	ND(2)
14	Naphthalene (SVOC)	1,000	20		ug/l	ND(0.2)	ND(0.19)
15	Carbon tetrachloride	2	4		ug/l	ND(1)	ND(1)
16	1,2 Dichlorobenzene (o-DCB)	2,000	600		ug/l	ND(1)	ND(1)
17	1,3 Dichlorobenzene (m-DCB)	2,000	320		ug/l	ND(1)	ND(1)
18	1,4 Dichlorobenzene (p-DCB)	200	5		ug/l	ND(1)	ND(1)
19	1,1-Dichloroethane (DCA)	1,000	70		ug/l	ND(1)	4.1
20	1,2-Dichloroethane	5	5		ug/l	ND(1)	ND(1)
21	1,1-Dichloroethene	80	3		ug/l	ND(1)	ND(1)
22	cis-1,2-Dichloroethene	100	70		ug/l	ND(1)	ND(1)
23	Methylene Chloride	10,000	5		ug/l	ND(2)	ND(2)
24	Tetrachloroethene	50	5		ug/l	ND(1)	ND(1)
25	1,1,1-Trichloroethane	4,000	200		ug/l	ND(1)	ND(1)
26	1,1,2-Trichloroethane	900	5		ug/l	ND(1)	ND(1)
27	Trichloroethene	30	5		ug/l	ND(1)	ND(1)
28	Vinyl chloride	2	2		ug/l	ND(1)	ND(1)
29	Acetone	50,000	Monitor Only		ug/l	ND(5)	ND(5)
30	1,4 Dioxane	6,000	Monitor Only		ug/l	ND(3)	ND(3)
31	Total Phenolics		300		ug/l	30	280
32	Pentachlorophenol	200	1		ug/l	ND(0.8)	ND(0.77)
33	Total Phthalates (Phthalate esters)		3		ug/l	ND(5)	ND(4.8)
34	Bis(2-Ethylhexyl)phthalate	50,000	6		ug/l	ND(3)	ND(2.9)
35	Total Group I PAH		10		ug/l		
a	Benzo(a)anthracene	1,000	0		ug/l	ND(0.2)	ND(0.19)
b	Benzo(a)pyrene	500	0		ug/l	ND(0.2)	ND(0.19)
c	Benzo(b)fluoranthene	400	0		ug/l	ND(0.2)	ND(0.19)
d	Benzo(k)fluoranthene	100	0		ug/l	ND(0.2)	ND(0.19)
e	Chrysene	70	0		ug/l	ND(0.2)	ND(0.19)
f	Dibenzo(a,h)anthracene	40	0		ug/l	ND(0.2)	ND(0.19)
g	Indeno(1,2,3-cd)Pyrene	100	0		ug/l	ND(0.2)	ND(0.19)
36	Total Group II PAH		10		ug/l		
h	Acenaphthene	6,000	Total Group II PAH		ug/l	ND(0.2)	ND(0.19)
i	Acenaphthylene	40	Total Group II PAH		ug/l	ND(0.2)	ND(0.19)
j	Anthracene	30	Total Group II PAH		ug/l	ND(0.2)	ND(0.19)
k	Benzo(ghi)perylene	20	Total Group II PAH		ug/l	ND(0.2)	ND(0.19)
l	Fluoranthene	200	Total Group II PAH		ug/l	ND(0.2)	ND(0.19)
m	Fluorene	40	Total Group II PAH		ug/l	ND(0.2)	ND(0.19)
n	Naphthalene	1,000	20		ug/l	ND(0.2)	ND(0.19)
o	Phenanthrene	10,000	Total Group II PAH		ug/l	ND(0.2)	ND(0.19)
p	Pyrene	20	Total Group II PAH		ug/l	ND(0.2)	ND(0.19)
37	Total PCBs		0.000064		ug/l	ND	ND
38	Chloride		Monitor Only		ug/l	2,000,000	1,600,000
	Total Recoverable Metal Limits						
39	Antimony	8,000	5.6	141	ug/l	0.7	0.7
40	Arsenic (freshwater)	9,000	10	540	ug/l	ND(0.5)	0.6
41	Cadmium (freshwater)	4	2	20	ug/l	ND(0.2)	ND(0.2)
42	Chromium III (freshwater)	300	48.8	1710	ug/l	ND(0.5)	2
43	Chromium IV, Hexavalent (freshwater)	300	11.4	1140	ug/l	ND(10)	ND(10)
44	Copper	100,000	5.2	520	ug/l	ND(0.5)	ND(0.5)
45	Lead	10	1.3	132	ug/l	ND(0.5)	ND(0.5)
46	Mercury	20	0.9	2.3	ug/l	ND(0.2)	ND(0.2)
47	Nickel	200	29	2380	ug/l	ND(0.5)	ND(0.5)
48	Selenium	100	5	408	ug/l	30	ND(1)
49	Silver	7	1.2	115	ug/l	ND(0.4)	ND(0.4)
50	Zinc	900	66.6	1480	ug/l	9.4	10.5
51	Iron		1,000	5,000	ug/l	10,000	140

ND()-not detected above laboratory method detection limits

Blank-not analyzed

Shaded-exceedance of RGP Limit

McPhail Associates, LLC

F:\WP5\JOBS\4532\RGP\Application Data\RGP limits.xls

Page 1 of 1

Table 2

LABORATORY TEST RESULTS--GROUNDWATER SAMPLES

1325 Boylston Street;
Boston, Massachusetts
Project Number 4532

Well designation	RCGW-2	Method 1 GW-2 Standards	Method 1 GW-3 Standards	B-1 (OW)	B-2 (OW)	B-3 (OW)	B-4 (OW)	B-4 (OW)	B-5 (OW)	B-5 (OW)	B-5 (OW)	B-5 (OW)	Exposure Point Concentration	B-7 (OW)	B-8 (OW)	B-9 (OW)
Date Sampled				12/12/2007	12/14/2007	12/18/2007	12/26/2007	12/28/2007	12/26/2007	12/28/2007	1/7/2008	1/22/2008		1/7/2008	1/7/2008	1/7/2008
VOC (EPA Method 8260) (ug/l) (detected compounds)								(VPH Targets)		(VPH Targets)		(VPH Targets)				
Benzene	2,000	2,000	10,000	0.5	1.0	4.7	2.5	200	37	17.8	7.4	17.8	20	0.25	0.25	0.25
Toluene	4,000	8,000	4,000	0.75	0.375	0.75	2.5	200	2.5	5	0.375	ND	2.63	0.375	3.6	0.375
Ethylbenzene	4,000	30,000	4,000	0.5	0.25	0.5	26.9	200	43.4	5	8.8	26.4	20.9	0.25	2.7	0.25
p/m xylene	6,000	9,000	500	1	0.5	1	5.53	200	6.86	5	1.7	ND	4.52	0.5	8.6	0.5
o-xylene	6,000	9,000	500	1	0.5	1	38.6	200	2.5	5	0.5	ND	2.67	0.5	3.5	0.5
Methyl tert butyl ether (MTBE)	1,000	50,000	50,000	1	7.5	160	2.5	300	2.5	7.5	1.1	11.8	5.73	0.5	1.6	0.5
n-Butylbenzene	No standard	No standard	No standard	2.1	0.25	0.5	2.5		28.5		2.2		15.35	4.6	0.25	1.9
sec-Butylbenzene	No standard	No standard	No standard	2.6	0.25	0.5	13.3		2.5		3		2.75	4.1	0.63	2.1
Isopropylbenzene	100,000	No standard	No standard	4.6	0.25	0.5	14.7		138		31		84.5	5.4	0.25	4.3
P-Isopropyltoluene	No standard	No standard	No standard	0.5	0.25	0.5					1.9		1.9	0.25	0.25	0.25
4-Isopropyltoluene	No standard	No standard	No standard			0.5	2.5		9.01				9.01			
n-propylbenzene	No standard	No standard	No standard	6.2	0.25	0.5	23.5		370		51		210.5	8	0.25	5.8
cis-1,2-Dichloroethene	100	100	50,000	1.7	4.1	5.2	2.5		2.5		0.25		1.38	0.25	0.25	0.25
Acetone	3,000	50,000	50,000	5	8.9	62	25		25		2.5		13.75	11	460	17
2-Butanone	50,000	No standard	No standard	5	2.5	5	5		5		2.5		3.75	2.5	7.5	2.5
Tertiary-Amyl Methyl Ether	No standard	No standard	No standard	2	1	6.1					1		1.0	1	1	1
1,2,4-Trimethylbenzene	100,000	No standard	No standard	2.5	1.25	2.5	15		10.9		1.25		6.08	1.25	1.25	1.25
1,3,5-Trimethylbenzene	1,000	No standard	No standard	2.5	1.25	2.5	2.5		2.5		2.5		2.5	1.25	1.25	1.25
Naphthalene	1,000	1,000	20,000	2.5	1.25	2.5	10	1,000	119	69	36	43	66.75	1.25	11	1.25
VPH (ug/l)																
C5-C8 Aliphatics, adjusted	3,000	3,000	50,000	62.5	25	62.5	167	17,400	280	1,010	232	880	601	63	25	25
C9-12 Aliphatics, adjusted	5,000	5,000	50,000	62.5	25	62.5	1,020	124,000	425	1,750	176	1,100	863	223	25	95.1
C9-C10 Aromatics	7,000	7,000	50,000	298	25	62.5	1,230	175,000	895	2,350	435	1,630	1,328	290	96	173
EPH (ug/l) w/PAH targets (detected compounds)																
C9 - C18 Aliphatics	5,000	5,000	50,000	422	66.5	59	2,000,000	2,570,000	5,470	13,900	50	1,610	5,258	7,140	300	1,910
C19 - C36 Aliphatics	50,000	N/A	50,000	77	180	59	827,000	312,000	342	1,030	50	189	403	1,070	51	346
C11 - C22 Aromatics, Adjusted	5,000	50,000	5,000	1,060	66.5	59	2,840,000	2,230,000	962	5,930	112	401	1,851	5,300	708	1,570
Naphthalene	1,000	1,000	20,000				14.5	3,130	52.2	58	25.9	31.4	41.9	5.15	15.5	5.15
2-Methylnaphthalene	3,000	10,000	3,000				14.5	12,200	77.7	100	11	34	55.7	35.6	5.1	5.15
Acenaphthylene	3,000	N/A	3,000				14.5	1,010	0.53	5.15	5	5.15	4.0	5.15	5.1	5.15
Acenaphthene	5,000	N/A	5,000				14.5	5,460	2.83	16	5	5.15	7.1	15.6	5.1	5.15
Fluorene	3,000	N/A	3,000				3,690	9,880	1.85	12	5	5.15	6.1	11.9	5.1	5.15
Phenanthrene	50	N/A	50				9,690	8,650	2.34	21	5	5.15	8.2	20	5.1	5.15
Anthracene	3,000	N/A	3,000				1,200	1,010	1.48	5.15	5	5.15	4.2	5.15	5.1	5.15
Fluoranthene	200	N/A	200				296	1,010	5.26	5.15	5	5.15	5.1	5.15	5.1	5.15
Pyrene	20	N/A	20				1,020	1,010	7.51	5.15	5	5.15	5.7	5.15	5.1	5.15
Benzo(a)anthracene	1,000	N/A	1,000				72	1,010	2.21	5.15	5	5.15	4.4	5.15	5.1	5.15
Chrysene	3,000	N/A	3,000				79	1,010	2.45	5.15	5	5.15	4.4	5.15	5.1	5.15

NAPL measured in well at time of sampling

0.5 - 1/2 of the laboratory detection limit used for compound reported as "ND" (none detected)
Blank - not analyzed

TABLE 3

LABORATORY TEST RESULTS--GROUNDWATER SAMPLES

1345 Boylston Street;
Boston, Massachusetts
Project Number 4532

				1345 Boylston Street										
Well designation	RCGW-2	Method 1 GW-2 Standards	Method 1 GW-3 Standards	B-1 (OW)		B-3 (OW)		B-11 (OW)		B-12 (OW)			B-14 (OW)	
Date Sampled				6/30/2006	11/10/2008	6/30/2006	11/10/2008	6/30/2006	11/10/2008	6/30/2006	11/27/2007	11/10/2008	6/30/2006	11/10/2008
VOC (EPA Method 8260) (ug/l) (detected compounds)														
Benzene	2,000	2,000	10,000	ND	ND	ND	ND	ND	ND	46		ND	ND	ND
Toluene	4,000	8,000	4,000	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND
1,1,2-Trichloroethene	900			ND	ND	ND	ND	ND	ND	ND		ND	17	ND
Ethylbenzene	4,000	30,000	4,000	ND	ND	ND	ND	ND	ND	1.5		ND	ND	ND
p/m xylene	6,000	9,000	500	ND	ND	ND	ND	ND	ND	4.6		1	ND	ND
o-xylene	6,000	9,000	500	ND	ND	ND	ND	ND	ND	1		ND	ND	ND
Methyl tert butyl ether (MTBE)	1,000	50,000	50,000	ND	10	ND	ND	ND	ND	1.6		11	ND	ND
n-Butylbenzene	No standard	No standard	No standard	ND	ND	ND	ND	ND	ND	12		2.3	ND	ND
sec-Butylbenzene	No standard	No standard	No standard	ND	ND	ND	ND	ND	ND	9.8		2.3	1	0.55
Isopropylbenzene	100,000	No standard	No standard	ND	ND	ND	ND	ND	ND	20		1.3	0.94	ND
p-Isopropyltoluene	No standard	No standard	No standard	ND	ND	ND	ND	ND	ND	7.4		1.4	ND	ND
n-propylbenzene	No standard	No standard	No standard	ND	ND	ND	ND	ND	ND	33		2.9	0.73	ND
Acetone	3,000	50,000	50,000	10	ND	ND	ND	ND	ND	ND		ND	ND	ND
Ethyl Ether				ND	3.2	ND	ND	ND	ND	ND		ND	ND	ND
Isopropyl Ether	10,000	No standard	No standard	9.7	11	ND	ND	ND	ND	12		4.3	ND	ND
Tertiary-Amyl Methyl Ether	No standard	No standard	No standard	63	6.7	ND	ND	ND	ND	ND		5.2	ND	ND
Hexachlorobutadiene	1	1	3,000	ND	ND	ND	ND	0.63	ND	ND		ND	ND	ND
Naphthalene	1,000	1,000	20,000	ND	ND	ND	ND	ND	ND	3.8		ND	ND	ND
VPH (ug/l)														
C5-C8 Aliphatics, adjusted	3,000	3,000	50,000	64.4	ND	ND	ND	ND	ND	1,330	639	317	ND	ND
C9-12 Aliphatics, adjusted	5,000	5,000	50,000	ND	ND	ND	ND	ND	ND	397	193	141	58	81.4
C9-C10 Aromatics	7,000	7,000	50,000	ND	ND	ND	ND	ND	ND	579	295	170	ND	ND
EPH (ug/l) w/PAH targets (detected compounds)														
C9 - C18 Aliphatics	5,000	5,000	50,000	ND	ND	ND	ND	ND	ND	ND		ND	121	ND
C19 - C36 Aliphatics	50,000	N/A	50,000	ND	141	ND	122	ND	ND	ND		ND	ND	ND
C11 - C22 Aromatics, Adjusted	5,000	50,000	5,000	ND	ND	ND	ND	ND	ND	249		112	154	ND
Dissolved Metals (mg/l)														
Antimony, Dissolved	8	N/A	8			ND							ND	
Arsenic, Dissolved	0.9	N/A	0.9			ND							ND	
Beryllium, Dissolved	0.05	N/A	0.05			ND							ND	
Cadmium, Dissolved	0.004	N/A	0.004			ND							ND	
Chromium, Dissolved	0.3	N/A	0.3			ND							ND	
Copper, Dissolved	100	N/A	N/A			ND							0.03	
Lead, Dissolved	0.01	N/A	0.01			ND							ND	
Mercury, Dissolved	0.02	N/A	0.02			ND							ND	
Nickel, Dissolved	0.2	N/A	0.2			ND							ND	
Selenium, Dissolved	0.1	N/A	0.1			ND							ND	
Silver, Dissolved	0.007	N/A	0.007			ND							ND	
Thallium, Dissolved	3	N/A	3			ND							ND	
Zinc, Dissolved	0.9	N/A	0.5			ND							ND	

Shading indicates an exceedence of the RCGW-2 Standards
ND--not detected above laboratory detection limit
Blank - not analyzed



ANALYTICAL REPORT

Lab Number:	L1204172
Client:	McPhail Associates 2269 Massachusetts Avenue Cambridge, MA 02140
ATTN:	Ambrose Donovan
Phone:	(617) 868-1420
Project Name:	BOLYSTON WEST
Project Number:	4532.9.04
Report Date:	03/16/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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



Project Name: BOLYSTON WEST
Project Number: 4532.9.04

Lab Number: L1204172
Report Date: 03/16/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1204172-01	B-1 (OW)	BOSTON, MA	03/12/12 12:00
L1204172-02	B-103 (OW)	BOSTON, MA	03/12/12 15:30

Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An 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
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	NO
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
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
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).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
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
A response to questions G, H and I 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)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: BOLYSTON WEST
Project Number: 4532.9.04

Lab Number: L1204172
Report Date: 03/16/12

Case Narrative

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

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

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

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

MCP Related Narratives

Sample Receipt

The samples were received below the appropriate pH for the Total Cyanide analysis. The laboratory added additional NaOH to a pH >12.

Volatile Organics

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

Project Name: BOLYSTON WEST
Project Number: 4532.9.04

Lab Number: L1204172
Report Date: 03/16/12

Case Narrative (continued)

In reference to question H:

The initial calibration, associated with L1204172-01 and -02, a quadratic fit was utilized for Acetone and Iodomethane

The continuing calibration standard, associated with L1204172-01 and -02, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

Semivolatile Organics

In reference to question H:

The WG522770-2/-3 LCS/LCSD recoveries, associated with L1204172-01 and -02, are below the individual acceptance criteria for 3,3'-Dichlorobenzidine (38%/38%) and Aniline (23%/26%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

PCBs

In reference to question B:

At the client's request, the analytical method specified in the CAM protocol was not followed.

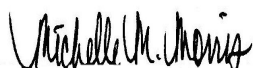
Metals

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

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

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 03/16/12

ORGANICS

VOLATILES

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-01
 Client ID: B-1 (OW)
 Sample Location: BOSTON, MA
 Matrix: Water
 Analytical Method: 14,504.1
 Analytical Date: 03/14/12 16:17
 Analyst: SH

Date Collected: 03/12/12 12:00
 Date Received: 03/12/12
 Field Prep: Not Specified
 Extraction Date: 03/14/12 10:00

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

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-01
Client ID: B-1 (OW)
Sample Location: BOSTON, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 03/14/12 09:33
Analyst: MM

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

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

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-01

Date Collected: 03/12/12 12:00

Client ID: B-1 (OW)

Date Received: 03/12/12

Sample Location: BOSTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	3.5		ug/l	2.0	--	1
Isopropyl Ether	12		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-01

Date Collected: 03/12/12 12:00

Client ID: B-1 (OW)

Date Received: 03/12/12

Sample Location: BOSTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

MCP Volatile Organics - Westborough Lab

tert-Butyl Alcohol	64		ug/l	10	--	1
--------------------	----	--	------	----	----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	98		70-130

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-01
Client ID: B-1 (OW)
Sample Location: BOSTON, MA
Matrix: Water
Analytical Method: 97,8260B-SIM
Analytical Date: 03/14/12 09:33
Analyst: MM

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

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

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-02
Client ID: B-103 (OW)
Sample Location: BOSTON, MA
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 03/14/12 16:33
Analyst: SH

Date Collected: 03/12/12 15:30
Date Received: 03/12/12
Field Prep: Not Specified
Extraction Date: 03/14/12 10:00

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

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-02
Client ID: B-103 (OW)
Sample Location: BOSTON, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 03/14/12 10:06
Analyst: MM

Date Collected: 03/12/12 15:30
Date Received: 03/12/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	4.1		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	6.5		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-02

Date Collected: 03/12/12 15:30

Client ID: B-103 (OW)

Date Received: 03/12/12

Sample Location: BOSTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	63		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-02

Date Collected: 03/12/12 15:30

Client ID: B-103 (OW)

Date Received: 03/12/12

Sample Location: BOSTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

MCP Volatile Organics - Westborough Lab

tert-Butyl Alcohol	ND		ug/l	10	--	1
--------------------	----	--	------	----	----	---

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	94		70-130

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-02
Client ID: B-103 (OW)
Sample Location: BOSTON, MA
Matrix: Water
Analytical Method: 97,8260B-SIM
Analytical Date: 03/14/12 10:06
Analyst: MM

Date Collected: 03/12/12 15:30
Date Received: 03/12/12
Field Prep: Not Specified

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

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**Method Blank Analysis**
Batch Quality Control

Analytical Method: 14,504.1

Analytical Date: 03/14/12 15:28

Analyst: SH

Extraction Date: 03/14/12 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG522964-1					
1,2-Dibromoethane	ND		ug/l	0.010	--

Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 03/14/12 09:01
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG523207-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 03/14/12 09:01
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG523207-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 03/14/12 09:01
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG523207-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
tert-Butyl Alcohol	ND		ug/l	10	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	95		70-130

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**Method Blank Analysis**
Batch Quality Control

Analytical Method: 97,8260B-SIM

Analytical Date: 03/14/12 09:01

Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by SIM - Westborough Lab for sample(s): 01-02 Batch: WG523260-3					
1,4-Dioxane	ND		ug/l	3.0	--

Lab Control Sample Analysis Batch Quality Control

Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG522964-2								
1,2-Dibromoethane	117		-		70-130	-		20

MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG523207-1 WG523207-2								
Methylene chloride	98		96		70-130	2		20
1,1-Dichloroethane	100		99		70-130	1		20
Chloroform	99		96		70-130	3		20
Carbon tetrachloride	99		95		70-130	4		20
1,2-Dichloropropane	104		101		70-130	3		20
Dibromochloromethane	102		103		70-130	1		20
1,1,2-Trichloroethane	104		107		70-130	3		20
Tetrachloroethene	89		91		70-130	2		20
Chlorobenzene	95		95		70-130	0		20

Lab Control Sample Analysis Batch Quality Control

Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG523207-1 WG523207-2								
Trichlorofluoromethane	109		106		70-130	3		20
1,2-Dichloroethane	101		100		70-130	1		20
1,1,1-Trichloroethane	98		95		70-130	3		20
Bromodichloromethane	101		98		70-130	3		20
trans-1,3-Dichloropropene	103		102		70-130	1		20
cis-1,3-Dichloropropene	97		95		70-130	2		20
1,1-Dichloropropene	99		96		70-130	3		20
Bromoform	83		92		70-130	10		20
1,1,2,2-Tetrachloroethane	93		100		70-130	7		20
Benzene	99		98		70-130	1		20
Toluene	94		94		70-130	0		20
Ethylbenzene	98		100		70-130	2		20
Chloromethane	89		88		70-130	1		20
Bromomethane	98		100		70-130	2		20
Vinyl chloride	105		102		70-130	3		20
Chloroethane	105		103		70-130	2		20
1,1-Dichloroethene	103		104		70-130	1		20
trans-1,2-Dichloroethene	98		96		70-130	2		20
Trichloroethene	95		96		70-130	1		20
1,2-Dichlorobenzene	102		99		70-130	3		20
1,3-Dichlorobenzene	101		99		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG523207-1 WG523207-2								
1,4-Dichlorobenzene	103		98		70-130	5		20
Methyl tert butyl ether	94		91		70-130	3		20
p/m-Xylene	94		97		70-130	3		20
o-Xylene	98		97		70-130	1		20
cis-1,2-Dichloroethene	96		99		70-130	3		20
Dibromomethane	106		97		70-130	9		20
1,2,3-Trichloropropane	96		104		70-130	8		20
Styrene	100		99		70-130	1		20
Dichlorodifluoromethane	78		77		70-130	1		20
Acetone	106		98		70-130	8		20
Carbon disulfide	76		76		70-130	0		20
2-Butanone	101		96		70-130	5		20
4-Methyl-2-pentanone	96		88		70-130	9		20
2-Hexanone	99		93		70-130	6		20
Bromochloromethane	97		96		70-130	1		20
Tetrahydrofuran	100		95		70-130	5		20
2,2-Dichloropropane	96		95		70-130	1		20
1,2-Dibromoethane	101		101		70-130	0		20
1,3-Dichloropropane	102		102		70-130	0		20
1,1,1,2-Tetrachloroethane	96		99		70-130	3		20
Bromobenzene	85		96		70-130	12		20

Lab Control Sample Analysis Batch Quality Control

Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG523207-1 WG523207-2								
n-Butylbenzene	99		102		70-130	3		20
sec-Butylbenzene	98		96		70-130	2		20
tert-Butylbenzene	98		96		70-130	2		20
o-Chlorotoluene	88		100		70-130	13		20
p-Chlorotoluene	95		103		70-130	8		20
1,2-Dibromo-3-chloropropane	92		104		70-130	12		20
Hexachlorobutadiene	80		93		70-130	15		20
Isopropylbenzene	109		97		70-130	12		20
p-Isopropyltoluene	101		100		70-130	1		20
Naphthalene	83		90		70-130	8		20
n-Propylbenzene	90		102		70-130	13		20
1,2,3-Trichlorobenzene	80		88		70-130	10		20
1,2,4-Trichlorobenzene	82		89		70-130	8		20
1,3,5-Trimethylbenzene	87		98		70-130	12		20
1,2,4-Trimethylbenzene	103		102		70-130	1		20
Ethyl ether	101		101		70-130	0		20
Isopropyl Ether	98		97		70-130	1		20
Ethyl-Tert-Butyl-Ether	98		95		70-130	3		20
Tertiary-Amyl Methyl Ether	97		94		70-130	3		20
tert-Butyl Alcohol	102		100		70-130	2		20

Lab Control Sample Analysis**Batch Quality Control****Project Name:** BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	------------

MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG523207-1 WG523207-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		101		70-130
Toluene-d8	99		101		70-130
4-Bromofluorobenzene	91		99		70-130
Dibromofluoromethane	101		98		70-130

MCP Volatile Organics by SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG523260-1 WG523260-2

1,4-Dioxane	116		113		70-130	3		20
-------------	-----	--	-----	--	--------	---	--	----

Matrix Spike Analysis

Batch Quality Control

Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG522964-3 QC Sample: L1204172-01 Client ID: B-1 (OW)												
1,2-Dibromoethane	ND	0.257	0.293	114		-	-		70-130	-		20

SEMIVOLATILES

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-01
Client ID: B-1 (OW)
Sample Location: BOSTON, MA
Matrix: Water
Analytical Method: 97,8270C
Analytical Date: 03/15/12 16:04
Analyst: RC

Date Collected: 03/12/12 12:00
Date Received: 03/12/12
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 03/13/12 13:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--	1
1,2-Dichlorobenzene	ND		ug/l	2.0	--	1
1,3-Dichlorobenzene	ND		ug/l	2.0	--	1
1,4-Dichlorobenzene	ND		ug/l	2.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--	1
2,4-Dinitrotoluene	ND		ug/l	5.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	2.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Isophorone	ND		ug/l	5.0	--	1
Nitrobenzene	ND		ug/l	2.0	--	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Aniline	ND		ug/l	2.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
Dibenzofuran	ND		ug/l	2.0	--	1
Acetophenone	ND		ug/l	5.0	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	ND		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-01

Date Collected: 03/12/12 12:00

Client ID: B-1 (OW)

Date Received: 03/12/12

Sample Location: BOSTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

MCP Semivolatile Organics - Westborough Lab

Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	ND		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		15-110
Phenol-d6	39		15-110
Nitrobenzene-d5	79		30-130
2-Fluorobiphenyl	86		30-130
2,4,6-Tribromophenol	98		15-110
4-Terphenyl-d14	104		30-130

Project Name: BOLYSTON WEST
Project Number: 4532.9.04

Lab Number: L1204172
Report Date: 03/16/12

SAMPLE RESULTS

Lab ID: L1204172-01
 Client ID: B-1 (OW)
 Sample Location: BOSTON, MA
 Matrix: Water
 Analytical Method: 97,8270C-SIM
 Analytical Date: 03/15/12 12:00
 Analyst: JC

Date Collected: 03/12/12 12:00
 Date Received: 03/12/12
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 03/13/12 13:28

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		15-110
Phenol-d6	32		15-110
Nitrobenzene-d5	75		30-130
2-Fluorobiphenyl	76		30-130
2,4,6-Tribromophenol	107		15-110
4-Terphenyl-d14	89		30-130

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-02
Client ID: B-103 (OW)
Sample Location: BOSTON, MA
Matrix: Water
Analytical Method: 97,8270C
Analytical Date: 03/15/12 16:27
Analyst: RC

Date Collected: 03/12/12 15:30
Date Received: 03/12/12
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 03/13/12 13:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	4.8	--	1
Bis(2-chloroethyl)ether	ND		ug/l	1.9	--	1
1,2-Dichlorobenzene	ND		ug/l	1.9	--	1
1,3-Dichlorobenzene	ND		ug/l	1.9	--	1
1,4-Dichlorobenzene	ND		ug/l	1.9	--	1
3,3'-Dichlorobenzidine	ND		ug/l	4.8	--	1
2,4-Dinitrotoluene	ND		ug/l	4.8	--	1
2,6-Dinitrotoluene	ND		ug/l	4.8	--	1
Azobenzene	ND		ug/l	1.9	--	1
4-Bromophenyl phenyl ether	ND		ug/l	1.9	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	1.9	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.8	--	1
Isophorone	ND		ug/l	4.8	--	1
Nitrobenzene	ND		ug/l	1.9	--	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	2.9	--	1
Butyl benzyl phthalate	ND		ug/l	4.8	--	1
Di-n-butylphthalate	ND		ug/l	4.8	--	1
Di-n-octylphthalate	ND		ug/l	4.8	--	1
Diethyl phthalate	ND		ug/l	4.8	--	1
Dimethyl phthalate	ND		ug/l	4.8	--	1
Aniline	ND		ug/l	1.9	--	1
4-Chloroaniline	ND		ug/l	4.8	--	1
Dibenzofuran	ND		ug/l	1.9	--	1
Acetophenone	ND		ug/l	4.8	--	1
2,4,6-Trichlorophenol	ND		ug/l	4.8	--	1
2-Chlorophenol	ND		ug/l	1.9	--	1
2,4-Dichlorophenol	ND		ug/l	4.8	--	1
2,4-Dimethylphenol	ND		ug/l	4.8	--	1
2-Nitrophenol	ND		ug/l	9.6	--	1
4-Nitrophenol	ND		ug/l	9.6	--	1
2,4-Dinitrophenol	ND		ug/l	19	--	1

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-02

Date Collected: 03/12/12 15:30

Client ID: B-103 (OW)

Date Received: 03/12/12

Sample Location: BOSTON, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

MCP Semivolatile Organics - Westborough Lab

Phenol	ND		ug/l	4.8	--	1
2-Methylphenol	ND		ug/l	4.8	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	4.8	--	1
2,4,5-Trichlorophenol	ND		ug/l	4.8	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		15-110
Phenol-d6	31		15-110
Nitrobenzene-d5	67		30-130
2-Fluorobiphenyl	68		30-130
2,4,6-Tribromophenol	78		15-110
4-Terphenyl-d14	84		30-130

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12**SAMPLE RESULTS**

Lab ID: L1204172-02
Client ID: B-103 (OW)
Sample Location: BOSTON, MA
Matrix: Water
Analytical Method: 97,8270C-SIM
Analytical Date: 03/15/12 12:27
Analyst: JC

Date Collected: 03/12/12 15:30
Date Received: 03/12/12
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 03/13/12 13:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Semivolatile Organics by SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.19	--	1
2-Chloronaphthalene	ND		ug/l	0.19	--	1
Fluoranthene	ND		ug/l	0.19	--	1
Hexachlorobutadiene	ND		ug/l	0.48	--	1
Naphthalene	ND		ug/l	0.19	--	1
Benzo(a)anthracene	ND		ug/l	0.19	--	1
Benzo(a)pyrene	ND		ug/l	0.19	--	1
Benzo(b)fluoranthene	ND		ug/l	0.19	--	1
Benzo(k)fluoranthene	ND		ug/l	0.19	--	1
Chrysene	ND		ug/l	0.19	--	1
Acenaphthylene	ND		ug/l	0.19	--	1
Anthracene	ND		ug/l	0.19	--	1
Benzo(ghi)perylene	ND		ug/l	0.19	--	1
Fluorene	ND		ug/l	0.19	--	1
Phenanthrene	ND		ug/l	0.19	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.19	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.19	--	1
Pyrene	ND		ug/l	0.19	--	1
2-Methylnaphthalene	ND		ug/l	0.19	--	1
Pentachlorophenol	ND		ug/l	0.77	--	1
Hexachlorobenzene	ND		ug/l	0.77	--	1
Hexachloroethane	ND		ug/l	0.77	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		15-110
Phenol-d6	24		15-110
Nitrobenzene-d5	56		30-130
2-Fluorobiphenyl	56		30-130
2,4,6-Tribromophenol	83		15-110
4-Terphenyl-d14	68		30-130

Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8270C
 Analytical Date: 03/14/12 10:17
 Analyst: RC

Extraction Method: EPA 3510C
 Extraction Date: 03/13/12 09:31

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG522770-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--
1,2-Dichlorobenzene	ND		ug/l	2.0	--
1,3-Dichlorobenzene	ND		ug/l	2.0	--
1,4-Dichlorobenzene	ND		ug/l	2.0	--
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--
2,4-Dinitrotoluene	ND		ug/l	5.0	--
2,6-Dinitrotoluene	ND		ug/l	5.0	--
Azobenzene	ND		ug/l	2.0	--
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--
Isophorone	ND		ug/l	5.0	--
Nitrobenzene	ND		ug/l	2.0	--
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	--
Butyl benzyl phthalate	ND		ug/l	5.0	--
Di-n-butylphthalate	ND		ug/l	5.0	--
Di-n-octylphthalate	ND		ug/l	5.0	--
Diethyl phthalate	ND		ug/l	5.0	--
Dimethyl phthalate	ND		ug/l	5.0	--
Aniline	ND		ug/l	2.0	--
4-Chloroaniline	ND		ug/l	5.0	--
Dibenzofuran	ND		ug/l	2.0	--
Acetophenone	ND		ug/l	5.0	--
2,4,6-Trichlorophenol	ND		ug/l	5.0	--
2-Chlorophenol	ND		ug/l	2.0	--
2,4-Dichlorophenol	ND		ug/l	5.0	--
2,4-Dimethylphenol	ND		ug/l	5.0	--
2-Nitrophenol	ND		ug/l	10	--
4-Nitrophenol	ND		ug/l	10	--
2,4-Dinitrophenol	ND		ug/l	20	--

Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8270C
 Analytical Date: 03/14/12 10:17
 Analyst: RC

Extraction Method: EPA 3510C
 Extraction Date: 03/13/12 09:31

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG522770-1					
Phenol	ND		ug/l	5.0	--
2-Methylphenol	ND		ug/l	5.0	--
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--
2,4,5-Trichlorophenol	ND		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		15-110
Phenol-d6	39		15-110
Nitrobenzene-d5	81		30-130
2-Fluorobiphenyl	87		30-130
2,4,6-Tribromophenol	99		15-110
4-Terphenyl-d14	102		30-130

Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8270C-SIM

Extraction Method: EPA 3510C

Analytical Date: 03/14/12 09:31

Extraction Date: 03/13/12 09:31

Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics by SIM - Westborough Lab for sample(s): 01-02 Batch: WG522772-1					
Acenaphthene	ND		ug/l	0.20	--
2-Chloronaphthalene	ND		ug/l	0.20	--
Fluoranthene	ND		ug/l	0.20	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	0.20	--
Benzo(a)anthracene	ND		ug/l	0.20	--
Benzo(a)pyrene	ND		ug/l	0.20	--
Benzo(b)fluoranthene	ND		ug/l	0.20	--
Benzo(k)fluoranthene	ND		ug/l	0.20	--
Chrysene	ND		ug/l	0.20	--
Acenaphthylene	ND		ug/l	0.20	--
Anthracene	ND		ug/l	0.20	--
Benzo(ghi)perylene	ND		ug/l	0.20	--
Fluorene	ND		ug/l	0.20	--
Phenanthrene	ND		ug/l	0.20	--
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	--
Pyrene	ND		ug/l	0.20	--
2-Methylnaphthalene	ND		ug/l	0.20	--
Pentachlorophenol	ND		ug/l	0.80	--
Hexachlorobenzene	ND		ug/l	0.80	--
Hexachloroethane	ND		ug/l	0.80	--

Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8270C-SIM

Extraction Method: EPA 3510C

Analytical Date: 03/14/12 09:31

Extraction Date: 03/13/12 09:31

Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
MCP Semivolatile Organics by SIM - Westborough Lab for sample(s): 01-02 Batch: WG522772-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		15-110
Phenol-d6	37		15-110
Nitrobenzene-d5	72		30-130
2-Fluorobiphenyl	79		30-130
2,4,6-Tribromophenol	85		15-110
4-Terphenyl-d14	81		30-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG522770-2 WG522770-3								
1,2,4-Trichlorobenzene	83		88		40-140	6		20
Bis(2-chloroethyl)ether	80		87		40-140	8		20
1,2-Dichlorobenzene	79		84		40-140	6		20
1,3-Dichlorobenzene	76		83		40-140	9		20
1,4-Dichlorobenzene	75		81		40-140	8		20
3,3'-Dichlorobenzidine	38	Q	38	Q	40-140	0		20
2,4-Dinitrotoluene	104		103		40-140	1		20
2,6-Dinitrotoluene	105		108		40-140	3		20
Azobenzene	96		97		40-140	1		20
4-Bromophenyl phenyl ether	103		106		40-140	3		20
Bis(2-chloroisopropyl)ether	83		88		40-140	6		20
Bis(2-chloroethoxy)methane	87		94		40-140	8		20
Isophorone	86		92		40-140	7		20
Nitrobenzene	88		93		40-140	6		20
Bis(2-Ethylhexyl)phthalate	117		120		40-140	3		20
Butyl benzyl phthalate	110		108		40-140	2		20
Di-n-butylphthalate	103		105		40-140	2		20
Di-n-octylphthalate	118		120		40-140	2		20
Diethyl phthalate	102		103		40-140	1		20
Dimethyl phthalate	99		99		40-140	0		20
Aniline	23	Q	26	Q	40-140	12		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG522770-2 WG522770-3								
4-Chloroaniline	51		55		40-140	8		20
Dibenzofuran	89		89		40-140	0		20
Acetophenone	43		46		40-140	7		20
2,4,6-Trichlorophenol	105		107		30-130	2		20
2-Chlorophenol	85		92		30-130	8		20
2,4-Dichlorophenol	101		105		30-130	4		20
2,4-Dimethylphenol	85		91		30-130	7		20
2-Nitrophenol	93		101		30-130	8		20
4-Nitrophenol	68		68		30-130	0		20
2,4-Dinitrophenol	82		89		30-130	8		20
Phenol	48		51		30-130	6		20
2-Methylphenol	85		92		30-130	8		20
3-Methylphenol/4-Methylphenol	81		87		30-130	7		20
2,4,5-Trichlorophenol	109		110		30-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG522770-2 WG522770-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		66		15-110
Phenol-d6	45		48		15-110
Nitrobenzene-d5	86		92		30-130
2-Fluorobiphenyl	95		98		30-130
2,4,6-Tribromophenol	105		106		15-110
4-Terphenyl-d14	106		105		30-130

MCP Semivolatile Organics by SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG522772-2 WG522772-3

Acenaphthene	75		70		40-140	7		20
2-Chloronaphthalene	73		70		40-140	4		20
Fluoranthene	84		87		40-140	4		20
Hexachlorobutadiene	67		62		40-140	8		20
Naphthalene	74		67		40-140	10		20
Benzo(a)anthracene	78		82		40-140	5		20
Benzo(a)pyrene	77		75		40-140	3		20
Benzo(b)fluoranthene	80		77		40-140	4		20
Benzo(k)fluoranthene	73		78		40-140	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Semivolatile Organics by SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG522772-2 WG522772-3								
Chrysene	70		73		40-140	4		20
Acenaphthylene	77		69		40-140	11		20
Anthracene	73		73		40-140	0		20
Benzo(ghi)perylene	75		66		40-140	13		20
Fluorene	65		65		40-140	0		20
Phenanthrene	75		76		40-140	1		20
Dibenzo(a,h)anthracene	83		78		40-140	6		20
Indeno(1,2,3-cd)Pyrene	77		70		40-140	10		20
Pyrene	84		88		40-140	5		20
2-Methylnaphthalene	90		85		40-140	6		20
Pentachlorophenol	74		74		30-130	0		20
Hexachlorobenzene	74		74		40-140	0		20
Hexachloroethane	67		65		40-140	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	53		50		15-110
Phenol-d6	40		37		15-110
Nitrobenzene-d5	75		71		30-130
2-Fluorobiphenyl	77		71		30-130
2,4,6-Tribromophenol	86		91		15-110
4-Terphenyl-d14	85		90		30-130

PCBS

Project Name: BOLYSTON WEST
Project Number: 4532.9.04

Lab Number: L1204172
Report Date: 03/16/12

SAMPLE RESULTS

Lab ID: L1204172-01
 Client ID: B-1 (OW)
 Sample Location: BOSTON, MA
 Matrix: Water
 Analytical Method: 5,608
 Analytical Date: 03/15/12 00:04
 Analyst: KB

Date Collected: 03/12/12 12:00
 Date Received: 03/12/12
 Field Prep: Not Specified
 Extraction Method: EPA 608
 Extraction Date: 03/13/12 08:42
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 03/14/12
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 03/14/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.252	--	1
Aroclor 1221	ND		ug/l	0.252	--	1
Aroclor 1232	ND		ug/l	0.252	--	1
Aroclor 1242	ND		ug/l	0.252	--	1
Aroclor 1248	ND		ug/l	0.252	--	1
Aroclor 1254	ND		ug/l	0.252	--	1
Aroclor 1260	ND		ug/l	0.252	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	77		30-150
Decachlorobiphenyl	82		30-150

Project Name: BOLYSTON WEST
Project Number: 4532.9.04

Lab Number: L1204172
Report Date: 03/16/12

SAMPLE RESULTS

Lab ID: L1204172-02
 Client ID: B-103 (OW)
 Sample Location: BOSTON, MA
 Matrix: Water
 Analytical Method: 5,608
 Analytical Date: 03/15/12 20:18
 Analyst: KB

Date Collected: 03/12/12 15:30
 Date Received: 03/12/12
 Field Prep: Not Specified
 Extraction Method: EPA 608
 Extraction Date: 03/13/12 08:42
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 03/14/12
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 03/14/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.252	--	1
Aroclor 1221	ND		ug/l	0.252	--	1
Aroclor 1232	ND		ug/l	0.252	--	1
Aroclor 1242	ND		ug/l	0.252	--	1
Aroclor 1248	ND		ug/l	0.252	--	1
Aroclor 1254	ND		ug/l	0.252	--	1
Aroclor 1260	ND		ug/l	0.252	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	79		30-150
Decachlorobiphenyl	69		30-150

Project Name: BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12

Method Blank Analysis Batch Quality Control

Analytical Method: 5,608
 Analytical Date: 03/14/12 22:31
 Analyst: KB

Extraction Method: EPA 608
 Extraction Date: 03/13/12 08:42
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 03/14/12
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 03/14/12

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG522704-1					
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	76		30-150
Decachlorobiphenyl	72		30-150

Matrix Spike Analysis

Batch Quality Control

Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
-----------	---------------	----------	----------	--------------	------	-----------	---------------	------	-----------------	-----	------	------------

Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG522704-3 QC Sample: L1204172-01 Client ID: B-1 (OW)

Aroclor 1016	ND	1.06	0.789	75		-	-		40-140	-		50
Aroclor 1260	ND	1.06	0.716	68		-	-		40-140	-		50

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	86				30-150
Decachlorobiphenyl	72				30-150

Lab Control Sample Analysis**Batch Quality Control****Project Name:** BOLYSTON WEST**Lab Number:** L1204172**Project Number:** 4532.9.04**Report Date:** 03/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG522704-2								
Aroclor 1016	84		-		40-140	-		50
Aroclor 1260	74		-		40-140	-		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	86				30-150
Decachlorobiphenyl	87				30-150

Lab Duplicate Analysis Batch Quality Control

Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG522704-4 QC Sample: L1204172-02 Client ID: B-103 (OW)						
Aroclor 1016	ND	ND	ug/l	NC		50
Aroclor 1221	ND	ND	ug/l	NC		50
Aroclor 1232	ND	ND	ug/l	NC		50
Aroclor 1242	ND	ND	ug/l	NC		50
Aroclor 1248	ND	ND	ug/l	NC		50
Aroclor 1254	ND	ND	ug/l	NC		50
Aroclor 1260	ND	ND	ug/l	NC		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	79		48		30-150
Decachlorobiphenyl	69		52		30-150

METALS

Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

SAMPLE RESULTS

Lab ID: L1204172-01

Date Collected: 03/12/12 12:00

Client ID: B-1 (OW)

Date Received: 03/12/12

Sample Location: BOSTON, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Westborough Lab											
Antimony, Total	0.0007		mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:22	EPA 3005A	97,6020A	AK
Arsenic, Total	ND		mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:22	EPA 3005A	97,6020A	AK
Cadmium, Total	ND		mg/l	0.0002	--	1	03/13/12 13:25	03/14/12 10:22	EPA 3005A	97,6020A	AK
Chromium, Total	ND		mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:22	EPA 3005A	97,6020A	AK
Copper, Total	ND		mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:22	EPA 3005A	97,6020A	AK
Iron, Total	10		mg/l	0.05	--	1	03/13/12 13:25	03/14/12 10:49	EPA 3005A	97,6010B	AI
Lead, Total	ND		mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:22	EPA 3005A	97,6020A	AK
Mercury, Total	ND		mg/l	0.0002	--	1	03/13/12 16:30	03/14/12 09:14	EPA 7470A	97,7470A	KL
Nickel, Total	ND		mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:22	EPA 3005A	97,6020A	AK
Selenium, Total	0.030		mg/l	0.001	--	1	03/13/12 13:25	03/14/12 10:22	EPA 3005A	97,6020A	AK
Silver, Total	ND		mg/l	0.0004	--	1	03/13/12 13:25	03/14/12 10:22	EPA 3005A	97,6020A	AK
Zinc, Total	0.0094		mg/l	0.0050	--	1	03/13/12 13:25	03/14/12 10:22	EPA 3005A	97,6020A	AK



Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

SAMPLE RESULTS

Lab ID: L1204172-02

Date Collected: 03/12/12 15:30

Client ID: B-103 (OW)

Date Received: 03/12/12

Sample Location: BOSTON, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Westborough Lab											
Antimony, Total	0.0007		mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:24	EPA 3005A	97,6020A	AK
Arsenic, Total	0.0006		mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:24	EPA 3005A	97,6020A	AK
Cadmium, Total	ND		mg/l	0.0002	--	1	03/13/12 13:25	03/14/12 10:24	EPA 3005A	97,6020A	AK
Chromium, Total	0.0020		mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:24	EPA 3005A	97,6020A	AK
Copper, Total	ND		mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:24	EPA 3005A	97,6020A	AK
Iron, Total	0.14		mg/l	0.05	--	1	03/13/12 13:25	03/14/12 10:52	EPA 3005A	97,6010B	AI
Lead, Total	ND		mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:24	EPA 3005A	97,6020A	AK
Mercury, Total	ND		mg/l	0.0002	--	1	03/13/12 16:30	03/14/12 09:16	EPA 7470A	97,7470A	KL
Nickel, Total	ND		mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:24	EPA 3005A	97,6020A	AK
Selenium, Total	ND		mg/l	0.001	--	1	03/13/12 13:25	03/14/12 10:24	EPA 3005A	97,6020A	AK
Silver, Total	ND		mg/l	0.0004	--	1	03/13/12 13:25	03/14/12 10:24	EPA 3005A	97,6020A	AK
Zinc, Total	0.0105		mg/l	0.0050	--	1	03/13/12 13:25	03/14/12 10:24	EPA 3005A	97,6020A	AK



Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG522782-1									
Iron, Total	ND	mg/l	0.05	--	1	03/13/12 13:25	03/14/12 10:16	97,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG522783-1									
Antimony, Total	ND	mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:07	97,6020A	AK
Arsenic, Total	ND	mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:07	97,6020A	AK
Cadmium, Total	ND	mg/l	0.0002	--	1	03/13/12 13:25	03/14/12 10:07	97,6020A	AK
Chromium, Total	ND	mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:07	97,6020A	AK
Copper, Total	ND	mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:07	97,6020A	AK
Lead, Total	ND	mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:07	97,6020A	AK
Nickel, Total	ND	mg/l	0.0005	--	1	03/13/12 13:25	03/14/12 10:07	97,6020A	AK
Selenium, Total	ND	mg/l	0.001	--	1	03/13/12 13:25	03/14/12 10:07	97,6020A	AK
Silver, Total	ND	mg/l	0.0004	--	1	03/13/12 13:25	03/14/12 10:07	97,6020A	AK
Zinc, Total	ND	mg/l	0.0050	--	1	03/13/12 13:25	03/14/12 10:07	97,6020A	AK

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG522829-1									
Mercury, Total	ND	mg/l	0.0002	--	1	03/13/12 16:30	03/14/12 09:05	97,7470A	KL

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis

Batch Quality Control

Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG522782-2 WG522782-3								
Iron, Total	100		100		80-120	0		20
MCP Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG522783-2 WG522783-3								
Antimony, Total	93		98		80-120	5		20
Arsenic, Total	110		109		80-120	1		20
Cadmium, Total	111		110		80-120	1		20
Chromium, Total	104		103		80-120	1		20
Copper, Total	107		106		80-120	1		20
Lead, Total	105		106		80-120	1		20
Nickel, Total	109		106		80-120	3		20
Selenium, Total	112		114		80-120	2		20
Silver, Total	99		102		80-120	3		20
Zinc, Total	110		108		80-120	2		20
MCP Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG522829-2 WG522829-3								
Mercury, Total	110		109		80-120	1		20

INORGANICS & MISCELLANEOUS

Project Name: BOLYSTON WEST
Project Number: 4532.9.04

Lab Number: L1204172
Report Date: 03/16/12

SAMPLE RESULTS

Lab ID: L1204172-01
Client ID: B-1 (OW)
Sample Location: BOSTON, MA
Matrix: Water

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Cyanide, Total	0.008		mg/l	0.005	--	1	03/13/12 11:00	03/13/12 14:51	97,9014	JO
Chromium, Hexavalent	ND		mg/l	0.010	--	1	03/13/12 01:15	03/13/12 01:36	97,7196A	DE
General Chemistry - Westborough Lab										
Solids, Total Suspended	20		mg/l	5.0	NA	1	-	03/15/12 17:10	30,2540D	DW
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	03/12/12 21:00	30,4500CL-D	DE
TPH	ND		mg/l	4.00	--	1	03/14/12 11:00	03/14/12 17:45	74,1664A	JO
Phenolics, Total	0.03		mg/l	0.03	--	1	03/12/12 18:50	03/13/12 01:09	4,420.1	TP
Anions by Ion Chromatography - Westborough Lab										
Chloride	2000		mg/l	50	--	100	-	03/13/12 18:26	44,300.0	AU



Project Name: BOLYSTON WEST
Project Number: 4532.9.04

Lab Number: L1204172
Report Date: 03/16/12

SAMPLE RESULTS

Lab ID: L1204172-02
Client ID: B-103 (OW)
Sample Location: BOSTON, MA
Matrix: Water

Date Collected: 03/12/12 15:30
Date Received: 03/12/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Cyanide, Total	0.027		mg/l	0.005	--	1	03/13/12 11:00	03/13/12 14:57	97,9014	JO
Chromium, Hexavalent	ND		mg/l	0.010	--	1	03/13/12 01:15	03/13/12 01:37	97,7196A	DE
General Chemistry - Westborough Lab										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/15/12 17:10	30,2540D	DW
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	03/12/12 21:00	30,4500CL-D	DE
TPH	ND		mg/l	4.00	--	1	03/14/12 11:00	03/14/12 17:45	74,1664A	JO
Phenolics, Total	0.28		mg/l	0.15	--	5	03/12/12 18:50	03/13/12 01:08	4,420.1	TP
Anions by Ion Chromatography - Westborough Lab										
Chloride	1600		mg/l	50	--	100	-	03/13/12 18:38	44,300.0	AU



Project Name: BOLYSTON WEST

Lab Number: L1204172

Project Number: 4532.9.04

Report Date: 03/16/12

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG522632-1										
Phenolics, Total	ND		mg/l	0.03	--	1	03/12/12 18:50	03/13/12 00:59	4,420.1	TP
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG522641-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	03/12/12 21:00	30,4500CL-D	DE
MCP General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG522665-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	03/13/12 01:15	03/13/12 01:31	97,7196A	DE
MCP General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG522754-3										
Cyanide, Total	ND		mg/l	0.005	--	1	03/13/12 11:00	03/13/12 14:41	97,9014	JO
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG522904-1										
Chloride	ND		mg/l	0.50	--	1	-	03/13/12 16:02	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG523022-2										
TPH	ND		mg/l	4.00	--	1	03/14/12 11:00	03/14/12 17:45	74,1664A	JO
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG523165-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	03/15/12 17:10	30,2540D	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG522632-2								
Phenolics, Total	94		-		82-111	-		12
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG522641-2								
Chlorine, Total Residual	105		-		90-110	-		
MCP General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG522665-2 WG522665-3								
Chromium, Hexavalent	100		103		80-120	3		20
MCP General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG522754-1 WG522754-2								
Cyanide, Total	106		107		80-120	1		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 Batch: WG522904-2								
Chloride	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG523022-1								
TPH	85		-		64-132	-		34

Matrix Spike Analysis **Batch Quality Control**

Project Name: BOLYSTON WEST
Project Number: 4532.9.04

Lab Number: L1204172
Report Date: 03/16/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG522632-3 QC Sample: L1203796-06 Client ID: MS Sample												
Phenolics, Total	ND	0.8	0.72	90		-	-		77-124	-		12
MCP General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG522665-5 QC Sample: L1204172-01 Client ID: B-1 (OW)												
Chromium, Hexavalent	ND	0.1	0.108	108		-	-		75-125	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG522904-3 QC Sample: L1204205-03 Client ID: MS Sample												
Chloride	ND	4	3.9	98		-	-		40-151	-		18
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG523022-3 QC Sample: L1204172-01 Client ID: B-1 (OW)												
TPH	ND	20.4	15.5	76		-	-		64-132	-		34

Lab Duplicate Analysis Batch Quality Control

Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG522632-4 QC Sample: L1203796-07 Client ID: DUP Sample						
Phenolics, Total	ND	ND	mg/l	NC		12
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG522641-3 QC Sample: L1204172-01 Client ID: B-1 (OW)						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
MCP General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG522665-4 QC Sample: L1204172-01 Client ID: B-1 (OW)						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG522904-4 QC Sample: L1204205-03 Client ID: DUP Sample						
Chloride	ND	ND	mg/l	NC		18
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG523022-4 QC Sample: L1204172-02 Client ID: B-103 (OW)						
TPH	ND	ND	mg/l	NC		34
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG523165-2 QC Sample: L1203962-01 Client ID: DUP Sample						
Solids, Total Suspended	340	350	mg/l	3		20

Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

B Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1204172-01A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260SIM-10(14),MCP-8260-10(14)
L1204172-01B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260SIM-10(14),MCP-8260-10(14)
L1204172-01C	Vial Na2S2O3 preserved	A	N/A	3	Y	Absent	504(14)
L1204172-01D	Vial Na2S2O3 preserved	A	N/A	3	Y	Absent	504(14)
L1204172-01E	Amber 1000ml unpreserved	A	7	3	Y	Absent	MCP-8270-10(7),MCP-8270SIM-10(7)
L1204172-01F	Amber 1000ml unpreserved	A	7	3	Y	Absent	MCP-8270-10(7),MCP-8270SIM-10(7)
L1204172-01G	Amber 1000ml unpreserved	A	7	3	Y	Absent	MCP-8270-10(7),MCP-8270SIM-10(7)
L1204172-01H	Amber 1000ml unpreserved	A	7	3	Y	Absent	MCP-8270-10(7),MCP-8270SIM-10(7)
L1204172-01I	Amber 1000ml unpreserved	A	7	3	Y	Absent	PCB-608(7)
L1204172-01J	Amber 1000ml unpreserved	A	7	3	Y	Absent	PCB-608(7)
L1204172-01K	Amber 1000ml HCl preserved	A	N/A	3	Y	Absent	TPH-1664(28)
L1204172-01L	Amber 1000ml HCl preserved	A	N/A	3	Y	Absent	TPH-1664(28)
L1204172-01M	Amber 1000ml H2SO4 preserved	A	<2	3	Y	Absent	TPHENOL-420(28)
L1204172-01N	Plastic 1000ml unpreserved	A	7	3	Y	Absent	TSS-2540(7)
L1204172-01O	Plastic 500ml unpreserved	A	7	3	Y	Absent	CL-300(28),TRC-4500(1)
L1204172-01P	Plastic 500ml unpreserved	A	7	3	Y	Absent	MCP-HEXCR7196-10(1)
L1204172-01Q	Plastic 250ml NaOH preserved	A	>12	3	Y	Absent	MCP-TCN9014-10(14)

*Values in parentheses indicate holding time in days



Project Name: BOLYSTON WEST

Project Number: 4532.9.04

Lab Number: L1204172

Report Date: 03/16/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1204172-01R	Plastic 250ml HNO3 preserved	A	<2	3	Y	Absent	MCP-FE-6010T-10(180),MCP-CR-6020T-10(180),MCP-7470T-10(28),MCP-CU-6020T-10(180),MCP-ZN-6020T-10(180),MCP-AS-6020T-10(180),MCP-NI-6020T-10(180),MCP-AG-6020T-10(180),MCP-CD-6020T-10(180),MCP-SE-6020T-10(180),MCP-PB-6020T-10(180),MCP-SB-6020T-10(180)
L1204172-02A	Vial HCl preserved	B	N/A	4	Y	Absent	MCP-8260SIM-10(14),MCP-8260-10(14)
L1204172-02B	Vial HCl preserved	B	N/A	4	Y	Absent	MCP-8260SIM-10(14),MCP-8260-10(14)
L1204172-02C	Vial Na2S2O3 preserved	B	N/A	4	Y	Absent	504(14)
L1204172-02D	Vial Na2S2O3 preserved	B	N/A	4	Y	Absent	504(14)
L1204172-02E	Amber 1000ml unpreserved	B	7	4	Y	Absent	MCP-8270-10(7),MCP-8270SIM-10(7)
L1204172-02F	Amber 1000ml unpreserved	B	7	4	Y	Absent	MCP-8270-10(7),MCP-8270SIM-10(7)
L1204172-02G	Amber 1000ml unpreserved	B	7	4	Y	Absent	MCP-8270-10(7),MCP-8270SIM-10(7)
L1204172-02H	Amber 1000ml unpreserved	B	7	4	Y	Absent	MCP-8270-10(7),MCP-8270SIM-10(7)
L1204172-02I	Amber 1000ml unpreserved	B	7	4	Y	Absent	PCB-608(7)
L1204172-02J	Amber 1000ml unpreserved	B	7	4	Y	Absent	PCB-608(7)
L1204172-02K	Amber 1000ml HCl preserved	B	N/A	4	Y	Absent	TPH-1664(28)
L1204172-02L	Amber 1000ml HCl preserved	B	N/A	4	Y	Absent	TPH-1664(28)
L1204172-02M	Amber 1000ml H2SO4 preserved	B	<2	4	Y	Absent	TPHENOL-420(28)
L1204172-02N	Plastic 1000ml unpreserved	B	7	4	Y	Absent	TSS-2540(7)
L1204172-02O	Plastic 500ml unpreserved	B	7	4	Y	Absent	CL-300(28),TRC-4500(1)
L1204172-02P	Plastic 500ml unpreserved	B	7	4	Y	Absent	MCP-HEXCR7196-10(1)
L1204172-02Q	Plastic 250ml NaOH preserved	B	>12	4	Y	Absent	MCP-TCN9014-10(14)
L1204172-02R	Plastic 250ml HNO3 preserved	B	<2	4	Y	Absent	MCP-FE-6010T-10(180),MCP-CR-6020T-10(180),MCP-7470T-10(28),MCP-CU-6020T-10(180),MCP-ZN-6020T-10(180),MCP-AS-6020T-10(180),MCP-NI-6020T-10(180),MCP-AG-6020T-10(180),MCP-CD-6020T-10(180),MCP-SE-6020T-10(180),MCP-PB-6020T-10(180),MCP-SB-6020T-10(180)

*Values in parentheses indicate holding time in days



Project Name: BOLYSTON WEST
Project Number: 4532.9.04

Lab Number: L1204172
Report Date: 03/16/12

GLOSSARY

Acronyms

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

Footnotes

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

Terms

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

Data Qualifiers

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

Report Format: Data Usability Report



Project Name: BOLYSTON WEST
Project Number: 4532.9.04

Lab Number: L1204172
Report Date: 03/16/12

Data Qualifiers

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: BOLYSTON WEST
Project Number: 4532.9.04

Lab Number: L1204172
Report Date: 03/16/12

REFERENCES

- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 5 Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).
- 14 Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 74 Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

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

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



Certificate/Approval Program Summary

Last revised January 30, 2012 - Westboro Facility

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

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

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

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

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

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

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

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

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

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

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

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

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

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

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

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

New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

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

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

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

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

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

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

Rhode Island Department of Health Certificate/Lab ID: LAO00065. **NELAP Accredited via NY-DOH.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S²⁻D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

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

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 3005A, 3015, 1312, 6010B, 6010C, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

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

Department of Defense, L-A-B Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

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

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

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

EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625**: 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix, SO₄ in a soil matrix.

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1204172

Instrument ID: Jack.i Calibration Date: 14-MAR-2012 Time: 07:24

Lab File ID: 0314A05 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.67235	.52322	.1	22	20	F
chloromethane	.81628	.72991	.1	11	20	
vinyl chloride	.75023	.78555	.1	-5	20	
bromomethane	.42326	.41276	.1	2	20	
chloroethane	.47256	.49723	.1	-5	20	
trichlorofluoromethane	1.1038	1.2002	.1	-9	20	
ethyl ether	.35236	.35635	.05	-1	20	
1,1,-dichloroethene	.66272	.68579	.1	-3	20	
carbon disulfide	1.4976	1.1369	.1	24	20	F
methylene chloride	.63572	.62262	.1	2	20	
acetone	100	106	.1	-6	20	
trans-1,2-dichloroethene	.63223	.62222	.1	2	20	
methyl tert butyl ether	1.5212	1.4300	.1	6	20	
tert butyl alcohol	.04728	.04825	.05	-2	20	F
Diisopropyl Ether	2.3850	2.3349	.01	2	20	
1,1-dichloroethane	1.1494	1.1560	.2	-1	20	
Ethyl-Tert-Butyl-Ether	1.9424	1.9079	.05	2	20	
cis-1,2-dichloroethene	.677	.65026	.1	4	20	
2,2-dichloropropane	.90978	.87762	.05	4	20	
bromochloromethane	.3184	.30765	.05	3	20	
chloroform	1.1139	1.1024	.2	1	20	
carbontetrachloride	.82818	.8187	.1	1	20	
tetrahydrofuran	.19128	.19064	.05	0	20	
1,1,1-trichloroethane	1.0199	.99488	.1	2	20	
1,1-dichloropropene	.88498	.87978	.05	1	20	
2-butanone	.22584	.22831	.1	-1	20	
benzene	2.5798	2.5597	.5	1	20	
Tertiary-Amyl Methyl Ether	1.5282	1.4888	.05	3	20	
1,2-dichloroethane	.80808	.81533	.1	-1	20	
trichloroethene	.69645	.66335	.2	5	20	
dibromomethane	.31577	.33471	.05	-6	20	
1,2-dichloropropane	.64211	.66663	.1	-4	20	
bromodichloromethane	.75952	.76494	.2	-1	20	
cis-1,3-dichloropropene	.92073	.88975	.2	3	20	
toluene	2.1136	1.9827	.4	6	20	
tetrachloroethene	.88878	.79404	.2	11	20	
4-methyl-2-pentanone	.16538	.15915	.1	4	20	
trans-1,3-dichloropropene	.93189	.95648	.1	-3	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1204172

Instrument ID: Jack.i Calibration Date: 14-MAR-2012 Time: 07:24

Lab File ID: 0314A05 Init. Calib. Date(s): 09-MAR-2 09-MAR-2

Sample No: 8260 CCAL Init. Calib. Times : 13:23 16:40

Compound	RRF	RRF	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,1,2-trichloroethane	.48873	.50854	.1	-4	20
chlorodibromomethane	.63071	.64289	.1	-2	20
1,3-dichloropropane	1.0199	1.0365	.05	-2	20
1,2-dibromoethane	.59853	.60578	.1	-1	20
2-hexanone	.40068	.39776	.1	1	20
chlorobenzene	2.2806	2.1643	.5	5	20
ethyl benzene	3.7380	3.6743	.1	2	20
1,1,1,2-tetrachloroethane	.75205	.71844	.05	4	20
p/m xylene	1.5508	1.4622	.1	6	20
o xylene	1.4966	1.4612	.3	2	20
bromoform	.69352	.57261	.1	17	20
styrene	2.4820	2.4813	.3	0	20
isopropylbenzene	3.5110	3.8301	.1	-9	20
bromobenzene	1.7120	1.4494	.05	15	20
n-propylbenzene	6.6982	5.9962	.05	10	20
1,1,2,2,-tetrachloroethane	1.1880	1.1088	.3	7	20
2-chlorotoluene	4.9745	4.3886	.05	12	20
1,2,3-trichloropropane	.9793	.93937	.05	4	20
1,3,5-trimethylbenzene	4.8855	4.2304	.05	13	20
4-chlorotoluene	4.4701	4.2376	.05	5	20
tert-butylbenzene	3.9586	3.8735	.05	2	20
1,2,4-trimethylbenzene	4.9164	5.0644	.05	-3	20
sec-butylbenzene	5.2118	5.1128	.01	2	20
p-isopropyltoluene	4.3474	4.3955	.05	-1	20
1,3-dichlorobenzene	2.9126	2.9303	.6	-1	20
1,4-dichlorobenzene	2.9892	3.0715	.5	-3	20
n-butylbenzene	3.2747	3.2565	.05	1	20
1,2-dichlorobenzene	2.7074	2.7568	.4	-2	20
1,2-dibromo-3-chloropropane	.13443	.12296	.05	9	20
1,2,4-trichlorobenzene	.9608	.78975	.2	18	20
hexachlorobutadiene	.40073	.31974	.05	20	20
naphthalene	1.8668	1.5487	.05	17	20
1,2,3-trichlorobenzene	.62003	.49766	.05	20	20
=====	=====	=====	=====	=====	=====
dibromofluoromethane	.24783	.24911	.05	-1	20
1,2-dichloroethane-d4	.27528	.2808	.05	-2	20
toluene-d8	1.2495	1.2330	.01	1	20
4-bromofluorobenzene	.86036	.78355	.05	9	20

F

FORM VII MCP-8260-10

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: McPhail Associates	Laboratory Job Number: L0718514
Address: 2269 Massachusetts Avenue	Date Received: 12-DEC-2007
Cambridge, MA 02140	Date Reported: 18-DEC-2007
Attn: Mr. Ambrose Donovan	Delivery Method: Alpha
Project Number: 4532	Site: 1341 BOYLSTON ST.

The following questions pertain only to MCP Analytical Methods

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

- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. **VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? YES

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

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? NO
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? NO

Any answers of NO to the above questions are addressed in the 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 report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____

Technical Representative

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0718514

Date Reported: 18-DEC-2007

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0718514-01	B-1 OW	BOSTON, MA

**ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT**

Laboratory Job Number: L0718514

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Volatile Organics

L0718514-01 has elevated detection limits due to the 2x dilution required by the elevated concentrations of non-target compounds in the sample.

In reference to question E:

The WG305854-1/-2 LCS/LCSD % recoveries for 1,4-Dioxane, a difficult analyte, are above the individual acceptance criteria for the compounds, but within the overall method allowances.

VPH

L0718514-01 has elevated detection limits due to the 2.5x dilution required by the elevated concentrations of non-target compounds in the sample due to strong gasoline smell.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

EPH

Extraction method: 3510C

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0718514-01

B-1 OW

Sample Matrix: WATER

Date Collected: 12-DEC-2007 00:00

Date Received : 12-DEC-2007

Date Reported : 18-DEC-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	1214 21:09 RY	
Methylene chloride	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.5			
Chloroform	ND	ug/l	1.5			
Carbon tetrachloride	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	3.5			
Dibromochloromethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.5			
Tetrachloroethene	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	5.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
Bromodichloromethane	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
1,1-Dichloropropene	ND	ug/l	5.0			
Bromoform	ND	ug/l	4.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Benzene	ND	ug/l	1.0			
Toluene	ND	ug/l	1.5			
Ethylbenzene	ND	ug/l	1.0			
Chloromethane	ND	ug/l	5.0			
Bromomethane	ND	ug/l	2.0			
Vinyl chloride	ND	ug/l	2.0			
Chloroethane	ND	ug/l	2.0			
1,1-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.5			
Trichloroethene	ND	ug/l	1.0			
1,2-Dichlorobenzene	ND	ug/l	5.0			
1,3-Dichlorobenzene	ND	ug/l	5.0			
1,4-Dichlorobenzene	ND	ug/l	5.0			
Methyl tert butyl ether	ND	ug/l	2.0			
p/m-Xylene	ND	ug/l	2.0			
o-Xylene	ND	ug/l	2.0			
cis-1,2-Dichloroethene	1.7	ug/l	1.0			
Dibromomethane	ND	ug/l	10.			
1,2,3-Trichloropropane	ND	ug/l	10.			
Styrene	ND	ug/l	2.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0718514-01
B-1 OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	1214 21:09 RY		
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	5.0				
Tetrahydrofuran	ND	ug/l	20.				
2,2-Dichloropropane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	4.0				
1,3-Dichloropropane	ND	ug/l	5.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	5.0				
n-Butylbenzene	2.1	ug/l	1.0				
sec-Butylbenzene	2.6	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	5.0				
o-Chlorotoluene	ND	ug/l	5.0				
p-Chlorotoluene	ND	ug/l	5.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	1.2				
Isopropylbenzene	4.6	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	6.2	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
Ethyl ether	ND	ug/l	5.0				
Isopropyl Ether	ND	ug/l	4.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	4.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	4.0				
1,4-Dioxane	ND	ug/l	500				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	95.0	%	70-130				
Toluene-d8	97.0	%	70-130				
4-Bromofluorobenzene	102	%	70-130				
Dibromofluoromethane	103	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0718514-01
B-1 OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons	59 VPH-04-1.1	1214 14:12 TT
---------------------------------	---------------	---------------

Quality Control Information

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

C5-C8 Aliphatics, Unadjusted	ND	ug/l	125.
C9-C12 Aliphatics, Unadjusted	396	ug/l	125
C9-C10 Aromatics	298	ug/l	125
C5-C8 Aliphatics, Adjusted	ND	ug/l	125.
C9-C12 Aliphatics, Adjusted	ND	ug/l	125

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	97.0 %	70-130
2,5-Dibromotoluene-FID	89.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0718514-01
 B-1 OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons	61 EPH-04-1	1214 20:00	1217 12:51	AJ
------------------------------------	-------------	------------	------------	----

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	422	ug/l	154
C19-C36 Aliphatics	ND	ug/l	154
C11-C22 Aromatics, Unadjusted	1060	ug/l	154
C11-C22 Aromatics, Adjusted	1060	ug/l	154

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	67.0	%	40-140
o-Terphenyl	76.0	%	40-140
2-Fluorobiphenyl	87.0	%	40-140
2-Bromonaphthalene	85.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0718514

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01 (WG305854-1, WG305854-2)					
Methylene chloride	98	97	1	25	70-130
1,1-Dichloroethane	95	94	1	25	70-130
Chloroform	93	94	1	25	70-130
Carbon tetrachloride	97	98	1	25	70-130
1,2-Dichloropropane	90	91	1	25	70-130
Dibromochloromethane	83	84	1	25	70-130
1,1,2-Trichloroethane	83	85	2	25	70-130
Tetrachloroethene	91	90	1	25	70-130
Chlorobenzene	90	90	0	25	70-130
Trichlorofluoromethane	107	106	1	25	70-130
1,2-Dichloroethane	86	87	1	25	70-130
1,1,1-Trichloroethane	95	94	1	25	70-130
Bromodichloromethane	91	90	1	25	70-130
trans-1,3-Dichloropropene	81	77	5	25	70-130
cis-1,3-Dichloropropene	87	87	0	25	70-130
1,1-Dichloropropene	96	95	1	25	70-130
Bromoform	81	82	1	50	70-130
1,1,2,2-Tetrachloroethane	74	76	3	25	70-130
Benzene	95	94	1	25	70-130
Toluene	91	90	1	25	70-130
Ethylbenzene	92	91	1	25	70-130
Chloromethane	84	84	0	50	70-130
Bromomethane	83	87	5	50	70-130
Vinyl chloride	89	87	2	25	70-130
Chloroethane	89	87	2	25	70-130
1,1-Dichloroethene	97	94	3	25	70-130
trans-1,2-Dichloroethene	100	100	0	25	70-130
Trichloroethene	99	98	1	25	70-130
1,2-Dichlorobenzene	86	88	2	25	70-130
1,3-Dichlorobenzene	90	90	0	25	70-130
1,4-Dichlorobenzene	89	89	0	25	70-130
Methyl tert butyl ether	82	84	2	25	70-130
p/m-Xylene	96	96	0	25	70-130
o-Xylene	95	95	0	25	70-130
cis-1,2-Dichloroethene	101	98	3	25	70-130
Dibromomethane	92	92	0	25	70-130
1,2,3-Trichloropropane	79	82	4	25	70-130
Styrene	93	94	1	25	70-130
Dichlorodifluoromethane	80	81	1	50	70-130
Acetone	103	94	9	50	70-130
Carbon disulfide	78	78	0	25	70-130
2-Butanone	80	85	6	50	70-130
4-Methyl-2-pentanone	87	89	2	50	70-130
2-Hexanone	70	74	6	50	70-130
Bromochloromethane	99	98	1	25	70-130
Tetrahydrofuran	78	90	14	25	70-130
2,2-Dichloropropane	87	89	2	50	70-130
1,2-Dibromoethane	83	84	1	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0718514

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01 (WG305854-1, WG305854-2)					
1,3-Dichloropropane	82	84	2	25	70-130
1,1,1,2-Tetrachloroethane	87	85	2	25	70-130
Bromobenzene	86	87	1	25	70-130
n-Butylbenzene	92	92	0	25	70-130
sec-Butylbenzene	93	93	0	25	70-130
tert-Butylbenzene	90	92	2	25	70-130
o-Chlorotoluene	88	88	0	25	70-130
p-Chlorotoluene	89	89	0	25	70-130
1,2-Dibromo-3-chloropropane	83	81	2	50	70-130
Hexachlorobutadiene	85	86	1	25	70-130
Isopropylbenzene	98	97	1	25	70-130
p-Isopropyltoluene	94	95	1	25	70-130
Naphthalene	82	88	7	25	70-130
n-Propylbenzene	91	92	1	25	70-130
1,2,3-Trichlorobenzene	87	92	6	25	70-130
1,2,4-Trichlorobenzene	88	89	1	25	70-130
1,3,5-Trimethylbenzene	88	90	2	25	70-130
1,2,4-Trimethylbenzene	90	90	0	25	70-130
Ethyl ether	86	87	1	25	70-130
Isopropyl Ether	81	82	1	25	70-130
Ethyl-Tert-Butyl-Ether	86	84	2	25	70-130
Tertiary-Amyl Methyl Ether	83	83	0	25	70-130
1,4-Dioxane	131	145	10	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	94	94	0		70-130
Toluene-d8	98	97	1		70-130
4-Bromofluorobenzene	96	98	2		70-130
Dibromofluoromethane	101	103	2		70-130
Volatile Petroleum Hydrocarbons for sample(s) 01 (WG305718-1, WG305718-2)					
C5-C8 Aliphatics	93	89	4	25	70-130
C9-C12 Aliphatics	90	88	3	25	70-130
C9-C10 Aromatics	97	94	3	25	70-130
Benzene	86	84	3	25	70-130
Toluene	97	94	3	25	70-130
Ethylbenzene	101	98	3	25	70-130
p/m-Xylene	103	100	3	25	70-130
o-Xylene	102	99	3	25	70-130
Methyl tert butyl ether	91	87	4	25	70-130
Naphthalene	106	102	4	25	70-130
1,2,4-Trimethylbenzene	99	95	4	25	70-130
Pentane	89	87	3	25	70-130
2-Methylpentane	83	80	4	25	70-130
2,2,4-Trimethylpentane	88	86	2	25	70-130
n-Nonane	94	92	2	25	30-130
n-Decane	93	89	4	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0718514

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Petroleum Hydrocarbons for sample(s) 01 (WG305718-1, WG305718-2)					
n-Butylcyclohexane	87	87	1	25	70-130
Surrogate(s)					
2,5-Dibromotoluene-PID	106	101	5		70-130
2,5-Dibromotoluene-FID	100	98	2		70-130
Extractable Petroleum Hydrocarbons for sample(s) 01 (WG305936-2, WG305936-3)					
C9-C18 Aliphatics	48	51	6	25	40-140
C19-C36 Aliphatics	62	65	5	25	40-140
C11-C22 Aromatics	80	80	0	25	40-140
Naphthalene	55	66	18	25	40-140
2-Methylnaphthalene	57	64	12	25	40-140
Acenaphthylene	61	67	9	25	40-140
Acenaphthene	66	70	6	25	40-140
Fluorene	72	76	5	25	40-140
Phenanthrene	80	81	1	25	40-140
Anthracene	90	89	1	25	40-140
Fluoranthene	84	83	1	25	40-140
Pyrene	85	84	1	25	40-140
Benzo(a)anthracene	83	82	1	25	40-140
Chrysene	85	83	2	25	40-140
Benzo(b)fluoranthene	83	82	1	25	40-140
Benzo(k)fluoranthene	88	86	2	25	40-140
Benzo(a)pyrene	79	78	1	25	40-140
Indeno(1,2,3-cd)Pyrene	79	77	3	25	40-140
Dibenzo(a,h)anthracene	83	80	4	25	40-140
Benzo(ghi)perylene	83	81	2	25	40-140
Nonane (C9)	34	39	14	25	30-140
Decane (C10)	40	46	14	25	40-140
Dodecane (C12)	46	51	10	25	40-140
Tetradecane (C14)	52	52	0	25	40-140
Hexadecane (C16)	57	58	2	25	40-140
Octadecane (C18)	58	60	3	25	40-140
Nonadecane (C19)	59	61	3	25	40-140
Eicosane (C20)	61	64	5	25	40-140
Docosane (C22)	62	66	6	25	40-140
Tetracosane (C24)	65	70	7	25	40-140
Hexacosane (C26)	62	67	8	25	40-140
Octacosane (C28)	63	68	8	25	40-140
Triacontane (C30)	63	67	6	25	40-140
Hexatriacontane (C36)	66	70	6	25	40-140
Surrogate(s)					
Chloro-Octadecane	52	59	13		40-140
o-Terphenyl	99	91	8		40-140
2-Fluorobiphenyl	82	81	1		40-140
2-Bromonaphthalene	84	82	2		40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0718514

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Extractable Petroleum Hydrocarbons for sample(s) 01 (WG305936-2, WG305936-3)					
% Naphthalene Breakthrough	0	0	NC		
% 2-Methylnaphthalene Breakthrough	0	0	NC		

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE FRACTIONATION CHECK

Laboratory Job Number: L0718514

Parameter	% Recovery	QC Criteria
------------------	-------------------	--------------------

Fractionation Check Standard Recoveries for Lot FISH061149
--

C9-C18 Aliphatics	60	40-140
C19-C36 Aliphatics	72	40-140
C11-C22 Aromatics	83	40-140
Naphthalene	77	40-140
2-Methylnaphthalene	72	40-140
Acenaphthylene	72	40-140
Acenaphthene	74	40-140
Fluorene	74	40-140
Phenanthrene	77	40-140
Anthracene	72	40-140
Fluoranthene	82	40-140
Pyrene	82	40-140
Benzo(a)anthracene	82	40-140
Chrysene	82	40-140
Benzo(b)fluoranthene	81	40-140
Benzo(k)fluoranthene	84	40-140
Benzo(a)pyrene	76	40-140
Indeno(1,2,3-cd)Pyrene	76	40-140
Dibenzo(a,h)anthracene	80	40-140
Benzo(ghi)perylene	80	40-140
Nonane (C9)	54	30-140
Decane (C10)	58	40-140
Dodecane (C12)	62	40-140
Tetradecane (C14)	62	40-140
Hexadecane (C16)	63	40-140
Octadecane (C18)	64	40-140
Nonadecane (C19)	64	40-140
Eicosane (C20)	66	40-140
Docosane (C22)	70	40-140
Tetracosane (C24)	73	40-140
Hexacosane (C26)	76	40-140
Octacosane (C28)	77	40-140
Triacontane (C30)	78	40-140
Hexatriacontane (C36)	82	40-140
Surrogate(s)		
Chloro-Octadecane	52	40-140
o-Terphenyl	77	40-140
2-Fluorobiphenyl	76	40-140
2-Bromonaphthalene	76	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0718514

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 01 (WG305854-3)						
Volatile Organics by MCP 8260B				60 8260B	1214 12:10 RY	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
Tetrahydrofuran	ND	ug/l	10.			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0718514

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Blank Analysis for sample(s) 01 (WG305854-3)							
Volatile Organics by MCP 8260B cont'd							
				60 8260B	1214	12:10	RY
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	95.0	%	70-130				
Toluene-d8	96.0	%	70-130				
4-Bromofluorobenzene	101	%	70-130				
Dibromofluoromethane	103	%	70-130				
Blank Analysis for sample(s) 01 (WG305718-3)							
Volatile Petroleum Hydrocarbons							
				59 VPH-04-1.1	1214	07:18	TT
C5-C8 Aliphatics, Unadjusted	ND	mg/kg	0.100				
C9-C12 Aliphatics, Unadjusted	ND	mg/kg	0.100				
C9-C10 Aromatics	ND	mg/kg	0.100				
C5-C8 Aliphatics, Adjusted	ND	mg/kg	0.100				
C9-C12 Aliphatics, Adjusted	ND	mg/kg	0.100				
Surrogate(s)	Recovery		QC Criteria				
2,5-Dibromotoluene-PID	101	%	70-130				
2,5-Dibromotoluene-FID	100	%	70-130				
Blank Analysis for sample(s) 01 (WG305936-1)							
Extractable Petroleum Hydrocarbons							
				61 EPH-04-1	1214	20:00	1217 13:24 AJ

**ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0718514

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Blank Analysis for sample(s) 01 (WG305936-1)							
Extractable Petroleum Hydrocarbons cont'd				61 EPH-04-1	1214 20:00	1217 13:24	AJ
C9-C18 Aliphatics	ND	ug/l	100				
C19-C36 Aliphatics	ND	ug/l	100				
C11-C22 Aromatics, Unadjusted	ND	ug/l	100				
C11-C22 Aromatics, Adjusted	ND	ug/l	100				
Surrogate(s)	Recovery		QC Criteria				
Chloro-Octadecane	50.0	%	40-140				
o-Terphenyl	63.0	%	40-140				
2-Fluorobiphenyl	77.0	%	40-140				
2-Bromonaphthalene	76.0	%	40-140				

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

59. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
60. Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.
61. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

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

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

ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0718514

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0718514-01A	Vial HCl preserved	A	N/A	4.0C	Y	Absent	MCP-8260-04
L0718514-01B	Vial HCl preserved	A	N/A	4.0C	Y	Absent	MCP-8260-04
L0718514-01C	Vial HCl preserved	A	N/A	4.0C	Y	Absent	VPH-04
L0718514-01D	Vial HCl preserved	A	N/A	4.0C	Y	Absent	VPH-04
L0718514-01E	Amber 1000ml HCl preserved	A	<2	4.0C	Y	Absent	EPH-04

Container Comments

Container ID	Comments
--------------	----------



CHAIN OF CUSTODY

PAGE _____ OF _____

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: MCPHAIL
Address: 2269 MATS AVE
CAMBRIDGE

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: 1325 BOYLSTON STProject Location: BOSTON

Project #:

Project Manager: JOE LOMBARDO

ALPHA Quote #:

Turn-Around Time

☒ Standard☐ RUSH (only confirmed if pre-approved!)Date Due: 12/19/07 Time:Date Rec'd in Lab: 12/12/07ALPHA Job #: LO210514

Report Information - Data Deliverables

☐ FAX☐ EMAIL☐ ADEx☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program

Criteria

MA / MCP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No

Are MCP Analytical Methods Required?

☐ Yes ☒ No

Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

VOC 8260

VPH STAND

EPH STAND

SAMPLE HANDLING

Filtration

☐ Done☐ Not needed☐ Lab to do

Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection

Date

Time

Sample

Matrix

Sampler's

Initials

10514-a1B-1 OW12/12/07H₂ORT-CX X X5

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO: 01-01 (rev. 10-OCT-05)

Container Type

V V A

Preservative

B B B

Relinquished By:

Date/Time

Received By:

Date/Time

Raymond12/12Manuel Amador12/12/07 16:512/12/07 18:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: McPhail Associates	Laboratory Job Number: L0718648
Address: 2269 Massachusetts Avenue	Date Received: 14-DEC-2007
Cambridge, MA 02140	Date Reported: 20-DEC-2007
Attn: Mr. Ambrose Donovan	Delivery Method: Alpha
Project Number: 4532	Site: 1325 BOYLSTON ST.

The following questions pertain only to MCP Analytical Methods

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

- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. **VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? YES

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

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? NO
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? NO

Any answers of NO to the above questions are addressed in the 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 report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by:


Technical Representative

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0718648

Date Reported: 20-DEC-2007

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0718648-01	B-2 OW	BOSTON, MA

**ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT**

Laboratory Job Number: L0718648

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives:

Volatile Organics

In reference to question E:

The WG306334-1 LCS % recovery for 1,4-Dioxane (a difficult analyte) is above the individual acceptance criteria for the compound, but within the overall method allowances.

The WG306334-2 LCSD % recovery for 2-Hexanone (a difficult analyte) is below the individual acceptance criteria for the compound, but within the overall method allowances.

VPH

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

EPH

Extraction method: 3510C

L0718648-01 has elevated detection limits due to limited sample volume submitted.

In reference to question E:

The WG305986-2 LCS % recovery for Decane is below the acceptance criteria for the method.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0718648-01

B-2 OW

Sample Matrix:

WATER

Date Collected: 13-DEC-2007 00:00

Date Received : 14-DEC-2007

Date Reported : 20-DEC-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	1218 14:11 BS	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	1.0	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	7.5	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	4.1	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0718648-01
B-2 OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	1218 14:11 BS		
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	8.9	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	95.0	%	70-130				
Toluene-d8	93.0	%	70-130				
4-Bromofluorobenzene	92.0	%	70-130				
Dibromofluoromethane	105	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0718648-01
B-2 OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons	59 VPH-04-1.1	1217 20:40 TT
---------------------------------	---------------	---------------

Quality Control Information

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

C5-C8 Aliphatics, Unadjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Unadjusted	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	91.0 %	70-130
2,5-Dibromotoluene-FID	84.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0718648-01
B-2 OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	------------------------	----

Extractable Petroleum Hydrocarbons	61	EPH-04-1	1215 11:30	1218 13:47	AJ
------------------------------------	----	----------	------------	------------	----

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	ND	ug/l	133
C19-C36 Aliphatics	180	ug/l	133
C11-C22 Aromatics, Unadjusted	ND	ug/l	133
C11-C22 Aromatics, Adjusted	ND	ug/l	133

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	56.0 %	40-140
o-Terphenyl	68.0 %	40-140
2-Fluorobiphenyl	84.0 %	40-140
2-Bromonaphthalene	83.0 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0718648

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01 (WG306334-1, WG306334-2)					
Methylene chloride	98	99	1	25	70-130
1,1-Dichloroethane	91	88	3	25	70-130
Chloroform	96	93	3	25	70-130
Carbon tetrachloride	106	99	7	25	70-130
1,2-Dichloropropane	87	83	5	25	70-130
Dibromochloromethane	93	89	4	25	70-130
1,1,2-Trichloroethane	87	87	0	25	70-130
Tetrachloroethene	95	90	5	25	70-130
Chlorobenzene	94	88	7	25	70-130
Trichlorofluoromethane	118	114	3	25	70-130
1,2-Dichloroethane	91	91	0	25	70-130
1,1,1-Trichloroethane	100	97	3	25	70-130
Bromodichloromethane	96	92	4	25	70-130
trans-1,3-Dichloropropene	80	78	3	25	70-130
cis-1,3-Dichloropropene	90	87	3	25	70-130
1,1-Dichloropropene	95	88	8	25	70-130
Bromoform	90	88	2	50	70-130
1,1,2,2-Tetrachloroethane	77	77	0	25	70-130
Benzene	95	90	5	25	70-130
Toluene	90	85	6	25	70-130
Ethylbenzene	92	87	6	25	70-130
Chloromethane	90	85	6	50	70-130
Bromomethane	90	87	3	50	70-130
Vinyl chloride	94	88	7	25	70-130
Chloroethane	96	87	10	25	70-130
1,1-Dichloroethene	104	100	4	25	70-130
trans-1,2-Dichloroethene	103	100	3	25	70-130
Trichloroethene	101	93	8	25	70-130
1,2-Dichlorobenzene	90	89	1	25	70-130
1,3-Dichlorobenzene	92	88	4	25	70-130
1,4-Dichlorobenzene	92	88	4	25	70-130
Methyl tert butyl ether	82	83	1	25	70-130
p/m-Xylene	97	91	6	25	70-130
o-Xylene	97	91	6	25	70-130
cis-1,2-Dichloroethene	102	98	4	25	70-130
Dibromomethane	98	98	0	25	70-130
1,2,3-Trichloropropane	82	80	2	25	70-130
Styrene	95	88	8	25	70-130
Dichlorodifluoromethane	113	110	3	50	70-130
Acetone	91	95	4	50	70-130
Carbon disulfide	88	83	6	25	70-130
2-Butanone	81	83	2	50	70-130
4-Methyl-2-pentanone	86	89	3	50	70-130
2-Hexanone	70	67	4	50	70-130
Bromochloromethane	107	106	1	25	70-130
Tetrahydrofuran	77	74	4	25	70-130
2,2-Dichloropropane	92	87	6	50	70-130
1,2-Dibromoethane	90	89	1	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0718648

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01 (WG306334-1, WG306334-2)					
1,3-Dichloropropane	84	82	2	25	70-130
1,1,1,2-Tetrachloroethane	95	90	5	25	70-130
Bromobenzene	88	87	1	25	70-130
n-Butylbenzene	87	84	4	25	70-130
sec-Butylbenzene	88	84	5	25	70-130
tert-Butylbenzene	89	84	6	25	70-130
o-Chlorotoluene	85	80	6	25	70-130
p-Chlorotoluene	87	82	6	25	70-130
1,2-Dibromo-3-chloropropane	85	87	2	50	70-130
Hexachlorobutadiene	88	86	2	25	70-130
Isopropylbenzene	100	94	6	25	70-130
p-Isopropyltoluene	94	88	7	25	70-130
Naphthalene	94	98	4	25	70-130
n-Propylbenzene	86	80	7	25	70-130
1,2,3-Trichlorobenzene	94	94	0	25	70-130
1,2,4-Trichlorobenzene	92	92	0	25	70-130
1,3,5-Trimethylbenzene	88	83	6	25	70-130
1,2,4-Trimethylbenzene	89	85	5	25	70-130
Ethyl ether	85	88	3	25	70-130
Isopropyl Ether	74	72	3	25	70-130
Ethyl-Tert-Butyl-Ether	80	76	5	25	70-130
Tertiary-Amyl Methyl Ether	84	83	1	25	70-130
1,4-Dioxane	134	112	18	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	95	96	1		70-130
Toluene-d8	92	95	3		70-130
4-Bromofluorobenzene	90	91	1		70-130
Dibromofluoromethane	104	106	2		70-130
Volatile Petroleum Hydrocarbons for sample(s) 01 (WG305861-1, WG305861-2)					
C5-C8 Aliphatics	106	93	13	25	70-130
C9-C12 Aliphatics	98	97	0	25	70-130
C9-C10 Aromatics	104	98	6	25	70-130
Benzene	104	90	15	25	70-130
Toluene	107	100	7	25	70-130
Ethylbenzene	108	103	5	25	70-130
p/m-Xylene	108	103	5	25	70-130
o-Xylene	109	104	5	25	70-130
Methyl tert butyl ether	105	97	8	25	70-130
Naphthalene	112	112	0	25	70-130
1,2,4-Trimethylbenzene	105	99	6	25	70-130
Pentane	95	85	12	25	70-130
2-Methylpentane	94	82	14	25	70-130
2,2,4-Trimethylpentane	103	93	11	25	70-130
n-Nonane	104	101	3	25	30-130
n-Decane	102	101	1	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0718648

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Petroleum Hydrocarbons for sample(s) 01 (WG305861-1, WG305861-2)					
n-Butylcyclohexane	95	95	0	25	70-130
Surrogate(s)					
2,5-Dibromotoluene-PID	111	104	7		70-130
2,5-Dibromotoluene-FID	108	101	7		70-130
Extractable Petroleum Hydrocarbons for sample(s) 01 (WG305986-2, WG305986-3)					
C9-C18 Aliphatics	48	50	4	25	40-140
C19-C36 Aliphatics	66	62	6	25	40-140
C11-C22 Aromatics	77	73	5	25	40-140
Naphthalene	68	64	6	25	40-140
2-Methylnaphthalene	67	63	6	25	40-140
Acenaphthylene	66	61	8	25	40-140
Acenaphthene	72	67	7	25	40-140
Fluorene	74	69	7	25	40-140
Phenanthrene	81	75	8	25	40-140
Anthracene	83	77	8	25	40-140
Fluoranthene	83	77	8	25	40-140
Pyrene	84	78	7	25	40-140
Benzo(a)anthracene	80	75	6	25	40-140
Chrysene	82	77	6	25	40-140
Benzo(b)fluoranthene	82	78	5	25	40-140
Benzo(k)fluoranthene	81	76	6	25	40-140
Benzo(a)pyrene	75	71	5	25	40-140
Indeno(1,2,3-cd)Pyrene	73	70	4	25	40-140
Dibenzo(a,h)anthracene	74	72	3	25	40-140
Benzo(ghi)perylene	78	74	5	25	40-140
Nonane (C9)	32	36	12	25	30-140
Decane (C10)	39	43	10	25	40-140
Dodecane (C12)	49	52	6	25	40-140
Tetradecane (C14)	54	55	2	25	40-140
Hexadecane (C16)	58	57	2	25	40-140
Octadecane (C18)	60	58	3	25	40-140
Nonadecane (C19)	62	59	5	25	40-140
Eicosane (C20)	65	62	5	25	40-140
Docosane (C22)	67	63	6	25	40-140
Tetracosane (C24)	72	67	7	25	40-140
Hexacosane (C26)	69	65	6	25	40-140
Octacosane (C28)	69	66	4	25	40-140
triacontane (C30)	69	65	6	25	40-140
Hexatriacontane (C36)	67	64	5	25	40-140
Surrogate(s)					
Chloro-Octadecane	66	63	5		40-140
o-Terphenyl	84	79	6		40-140
2-Fluorobiphenyl	91	86	6		40-140
2-Bromonaphthalene	90	85	6		40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0718648

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Extractable Petroleum Hydrocarbons for sample(s) 01 (WG305986-2, WG305986-3)					
% Naphthalene Breakthrough	0	0	NC		
% 2-Methylnaphthalene Breakthrough	0	0	NC		

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE FRACTIONATION CHECK

Laboratory Job Number: L0718648

Parameter	% Recovery	QC Criteria
-----------	------------	-------------

Fractionation Check Standard Recoveries for Lot FISH061149
--

C9-C18 Aliphatics	60	40-140
C19-C36 Aliphatics	72	40-140
C11-C22 Aromatics	83	40-140
Naphthalene	77	40-140
2-Methylnaphthalene	72	40-140
Acenaphthylene	72	40-140
Acenaphthene	74	40-140
Fluorene	74	40-140
Phenanthrene	77	40-140
Anthracene	72	40-140
Fluoranthene	82	40-140
Pyrene	82	40-140
Benzo(a)anthracene	82	40-140
Chrysene	82	40-140
Benzo(b)fluoranthene	81	40-140
Benzo(k)fluoranthene	84	40-140
Benzo(a)pyrene	76	40-140
Indeno(1,2,3-cd)Pyrene	76	40-140
Dibenzo(a,h)anthracene	80	40-140
Benzo(ghi)perylene	80	40-140
Nonane (C9)	54	30-140
Decane (C10)	58	40-140
Dodecane (C12)	62	40-140
Tetradecane (C14)	62	40-140
Hexadecane (C16)	63	40-140
Octadecane (C18)	64	40-140
Nonadecane (C19)	64	40-140
Eicosane (C20)	66	40-140
Docosane (C22)	70	40-140
Tetracosane (C24)	73	40-140
Hexacosane (C26)	76	40-140
Octacosane (C28)	77	40-140
Triacontane (C30)	78	40-140
Hexatriacontane (C36)	82	40-140
Surrogate(s)		
Chloro-Octadecane	52	40-140
o-Terphenyl	77	40-140
2-Fluorobiphenyl	76	40-140
2-Bromonaphthalene	76	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0718648

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 01 (WG306334-3)						
Volatile Organics by MCP 8260B				60 8260B	1218 13:32 BS	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
Tetrahydrofuran	ND	ug/l	10.			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0718648

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 01 (WG306334-3)						
Volatile Organics by MCP 8260B cont'd						
				60 8260B	1218 13:32 BS	
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	0.60			
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	ND	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
Ethyl ether	ND	ug/l	2.5			
Isopropyl Ether	ND	ug/l	2.0			
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0			
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0			
1,4-Dioxane	ND	ug/l	250			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	95.0	%	70-130			
Toluene-d8	91.0	%	70-130			
4-Bromofluorobenzene	94.0	%	70-130			
Dibromofluoromethane	107	%	70-130			
Blank Analysis for sample(s) 01 (WG305861-3)						
Volatile Petroleum Hydrocarbons						
				59 VPH-04-1.1	1217 09:33 TT	
C5-C8 Aliphatics, Unadjusted	ND	ug/l	50.0			
C9-C12 Aliphatics, Unadjusted	ND	ug/l	50.0			
C9-C10 Aromatics	ND	ug/l	50.0			
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0			
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0			
Surrogate(s)	Recovery		QC Criteria			
2,5-Dibromotoluene-PID	104	%	70-130			
2,5-Dibromotoluene-FID	102	%	70-130			
Blank Analysis for sample(s) 01 (WG305986-1)						
Extractable Petroleum Hydrocarbons						
				61 EPH-04-1	1215 11:30 1218 10:46 AJ	

**ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0718648

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG305986-1)							
Extractable Petroleum Hydrocarbons cont'd				61 EPH-04-1	1215 11:30	1218 10:46	AJ
C9-C18 Aliphatics	ND	ug/l	100				
C19-C36 Aliphatics	ND	ug/l	100				
C11-C22 Aromatics, Unadjusted	ND	ug/l	100				
C11-C22 Aromatics, Adjusted	ND	ug/l	100				
Surrogate(s)	Recovery		QC Criteria				
Chloro-Octadecane	54.0	%	40-140				
o-Terphenyl	66.0	%	40-140				
2-Fluorobiphenyl	86.0	%	40-140				
2-Bromonaphthalene	83.0	%	40-140				

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

59. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
60. Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.
61. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

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

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

ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0718648

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0718648-01A	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0718648-01B	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0718648-01C	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	VPH-04
L0718648-01D	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	VPH-04
L0718648-01E	Amber 1000ml HCl preserved	A	<2	2.7 C	Y	Absent	EPH-04
L0718648-01F	Amber 1000ml HCl preserved	A	<2	2.7 C	Y	Absent	EPH-04

Container Comments

Container ID	Comments
--------------	----------

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: McPhail Associates	Laboratory Job Number: L0718792
Address: 2269 Massachusetts Avenue	Date Received: 18-DEC-2007
Cambridge, MA 02140	Date Reported: 19-DEC-2007
Attn: Mr. Ambrose Donovan	Delivery Method: Alpha
Project Number: 4532.9.02	Site: 1325 BOYLSTON ST

The following questions pertain only to MCP Analytical Methods

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

- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. **VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? YES

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

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? NO
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? NO

Any answers of NO to the above questions are addressed in the 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 report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____

Technical Representative

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0718792

Date Reported: 19-DEC-2007

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0718792-01	B-3 OW	BOSTON, MA

**ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT**

Laboratory Job Number: L0718792

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Volatile Organics

L0718792-01 has elevated detection limits due to the 2x dilution required by the elevated concentrations of target compounds in the sample. The Acetone concentration should be considered estimated due to high recoveries in the LCS/LCSD.

In reference to question E:

The WG306392-1/2 LCS/LCSD % recoveries for Acetone, a difficult analyte, as well as the LCS % recovery for trans-1,2-Dichloroethene, are above, and the LCS/LCSD % recoveries for Dichlorodifluoromethane, a difficult analyte, are below, the individual acceptance criteria for the compounds, but within the overall method allowances.

VPH

L0718792-01 has elevated detection limits due to the 2.5x dilution required by the elevated concentrations of non-target compounds in the sample.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

EPH by method EPH-04-1

Extraction method: 3510C

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0718792-01

B-3 OW

Sample Matrix:

WATER

Date Collected: 17-DEC-2007 00:00

Date Received : 18-DEC-2007

Date Reported : 19-DEC-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ID ANAL
Volatile Organics by MCP 8260B				60 8260B	1219 14:08	BS
Methylene chloride	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.5			
Chloroform	ND	ug/l	1.5			
Carbon tetrachloride	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	3.5			
Dibromochloromethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.5			
Tetrachloroethene	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	5.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
Bromodichloromethane	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
1,1-Dichloropropene	ND	ug/l	5.0			
Bromoform	ND	ug/l	4.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Benzene	4.7	ug/l	1.0			
Toluene	ND	ug/l	1.5			
Ethylbenzene	ND	ug/l	1.0			
Chloromethane	ND	ug/l	5.0			
Bromomethane	ND	ug/l	2.0			
Vinyl chloride	ND	ug/l	2.0			
Chloroethane	ND	ug/l	2.0			
1,1-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.5			
Trichloroethene	ND	ug/l	1.0			
1,2-Dichlorobenzene	ND	ug/l	5.0			
1,3-Dichlorobenzene	ND	ug/l	5.0			
1,4-Dichlorobenzene	ND	ug/l	5.0			
Methyl tert butyl ether	160	ug/l	2.0			
p/m-Xylene	ND	ug/l	2.0			
o-Xylene	ND	ug/l	2.0			
cis-1,2-Dichloroethene	5.2	ug/l	1.0			
Dibromomethane	ND	ug/l	10.			
1,2,3-Trichloropropane	ND	ug/l	10.			
Styrene	ND	ug/l	2.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0718792-01
B-3 OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	1219 14:08 BS		
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	62	ug/l	10				
Carbon disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	10				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	5.0				
Tetrahydrofuran	ND	ug/l	20.				
2,2-Dichloropropane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	4.0				
1,3-Dichloropropane	ND	ug/l	5.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	5.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	5.0				
o-Chlorotoluene	ND	ug/l	5.0				
p-Chlorotoluene	ND	ug/l	5.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	1.2				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
Ethyl ether	ND	ug/l	5.0				
Isopropyl Ether	ND	ug/l	4.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	4.0				
Tertiary-Amyl Methyl Ether	6.1	ug/l	4.0				
1,4-Dioxane	ND	ug/l	500				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	103	%	70-130				
Toluene-d8	93.0	%	70-130				
4-Bromofluorobenzene	98.0	%	70-130				
Dibromofluoromethane	106	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0718792-01
B-3 OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ID ANAL
-----------	--------	-------	-----	------------	--------------	------------

Volatile Petroleum Hydrocarbons	59 VPH-04-1.1	1219 11:23 TT
---------------------------------	---------------	---------------

Quality Control Information

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

C5-C8 Aliphatics, Unadjusted	203	ug/l	125
C9-C12 Aliphatics, Unadjusted	ND	ug/l	125.
C9-C10 Aromatics	ND	ug/l	125.
C5-C8 Aliphatics, Adjusted	ND	ug/l	125
C9-C12 Aliphatics, Adjusted	ND	ug/l	125.

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	100	70-130
2,5-Dibromotoluene-FID	96.0	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0718792-01
B-3 OW

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	------------------------	----

Extractable Petroleum Hydrocarbons	61	EPH-04-1	1218	21:00	1219	12:58 AJ
------------------------------------	----	----------	------	-------	------	----------

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	ND	ug/l	118
C19-C36 Aliphatics	ND	ug/l	118
C11-C22 Aromatics, Unadjusted	ND	ug/l	118
C11-C22 Aromatics, Adjusted	ND	ug/l	118

Surrogate(s)	Recovery	%	QC Criteria
Chloro-Octadecane	58.0	%	40-140
o-Terphenyl	69.0	%	40-140
2-Fluorobiphenyl	79.0	%	40-140
2-Bromonaphthalene	79.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0718792

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01 (WG306392-1, WG306392-2)					
Methylene chloride	124	123	1	25	70-130
1,1-Dichloroethane	109	106	3	25	70-130
Chloroform	116	112	4	25	70-130
Carbon tetrachloride	110	106	4	25	70-130
1,2-Dichloropropane	114	110	4	25	70-130
Dibromochloromethane	93	91	2	25	70-130
1,1,2-Trichloroethane	101	100	1	25	70-130
Tetrachloroethene	98	94	4	25	70-130
Chlorobenzene	96	94	2	25	70-130
Trichlorofluoromethane	128	125	2	25	70-130
1,2-Dichloroethane	117	115	2	25	70-130
1,1,1-Trichloroethane	117	113	3	25	70-130
Bromodichloromethane	112	110	2	25	70-130
trans-1,3-Dichloropropene	91	93	2	25	70-130
cis-1,3-Dichloropropene	112	110	2	25	70-130
1,1-Dichloropropene	120	114	5	25	70-130
Bromoform	84	86	2	50	70-130
1,1,2,2-Tetrachloroethane	104	104	0	25	70-130
Benzene	111	106	5	25	70-130
Toluene	94	92	2	25	70-130
Ethylbenzene	99	98	1	25	70-130
Chloromethane	97	95	2	50	70-130
Bromomethane	125	119	5	50	70-130
Vinyl chloride	105	101	4	25	70-130
Chloroethane	108	100	8	25	70-130
1,1-Dichloroethene	120	117	3	25	70-130
trans-1,2-Dichloroethene	140	119	16	25	70-130
Trichloroethene	110	106	4	25	70-130
1,2-Dichlorobenzene	104	103	1	25	70-130
1,3-Dichlorobenzene	93	91	2	25	70-130
1,4-Dichlorobenzene	93	91	2	25	70-130
Methyl tert butyl ether	96	97	1	25	70-130
p/m-Xylene	97	95	2	25	70-130
o-Xylene	96	94	2	25	70-130
cis-1,2-Dichloroethene	108	106	2	25	70-130
Dibromomethane	118	116	2	25	70-130
1,2,3-Trichloropropane	108	106	2	25	70-130
Styrene	99	99	0	25	70-130
Dichlorodifluoromethane	67	64	5	50	70-130
Acetone	152	148	3	50	70-130
Carbon disulfide	108	103	5	25	70-130
2-Butanone	109	108	1	50	70-130
4-Methyl-2-pentanone	118	116	2	50	70-130
2-Hexanone	89	91	2	50	70-130
Bromochloromethane	117	113	3	25	70-130
Tetrahydrofuran	98	101	3	25	70-130
2,2-Dichloropropane	118	112	5	50	70-130
1,2-Dibromoethane	98	97	1	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0718792

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01 (WG306392-1, WG306392-2)					
1,3-Dichloropropane	102	102	0	25	70-130
1,1,1,2-Tetrachloroethane	90	93	3	25	70-130
Bromobenzene	96	92	4	25	70-130
n-Butylbenzene	94	93	1	25	70-130
sec-Butylbenzene	94	91	3	25	70-130
tert-Butylbenzene	90	87	3	25	70-130
o-Chlorotoluene	92	90	2	25	70-130
p-Chlorotoluene	95	92	3	25	70-130
1,2-Dibromo-3-chloropropane	82	88	7	50	70-130
Hexachlorobutadiene	92	91	1	25	70-130
Isopropylbenzene	105	103	2	25	70-130
p-Isopropyltoluene	95	91	4	25	70-130
Naphthalene	90	91	1	25	70-130
n-Propylbenzene	98	95	3	25	70-130
1,2,3-Trichlorobenzene	93	91	2	25	70-130
1,2,4-Trichlorobenzene	87	86	1	25	70-130
1,3,5-Trimethylbenzene	91	87	4	25	70-130
1,2,4-Trimethylbenzene	92	90	2	25	70-130
Ethyl ether	104	102	2	25	70-130
Isopropyl Ether	95	94	1	25	70-130
Ethyl-Tert-Butyl-Ether	97	97	0	25	70-130
Tertiary-Amyl Methyl Ether	99	98	1	25	70-130
1,4-Dioxane	101	92	9	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	102	104	2		70-130
Toluene-d8	91	93	2		70-130
4-Bromofluorobenzene	98	98	0		70-130
Dibromofluoromethane	107	107	0		70-130
Volatile Petroleum Hydrocarbons for sample(s) 01 (WG306234-1, WG306234-2)					
C5-C8 Aliphatics	86	92	7	25	70-130
C9-C12 Aliphatics	98	101	4	25	70-130
C9-C10 Aromatics	98	106	8	25	70-130
Benzene	94	100	6	25	70-130
Toluene	103	107	4	25	70-130
Ethylbenzene	105	109	4	25	70-130
p/m-Xylene	106	109	3	25	70-130
o-Xylene	106	109	3	25	70-130
Methyl tert butyl ether	96	104	8	25	70-130
Naphthalene	106	115	8	25	70-130
1,2,4-Trimethylbenzene	100	107	7	25	70-130
Pentane	74	77	5	25	70-130
2-Methylpentane	74	80	8	25	70-130
2,2,4-Trimethylpentane	89	94	5	25	70-130
n-Nonane	100	104	4	25	30-130
n-Decane	101	104	3	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0718792

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Petroleum Hydrocarbons for sample(s) 01 (WG306234-1, WG306234-2)					
n-Butylcyclohexane	96	100	4	25	70-130
Surrogate(s)					
2,5-Dibromotoluene-PID	103	111	7		70-130
2,5-Dibromotoluene-FID	98	108	10		70-130
Extractable Petroleum Hydrocarbons for sample(s) 01 (WG306313-2, WG306313-3)					
C9-C18 Aliphatics	53	53	0	25	40-140
C19-C36 Aliphatics	60	61	2	25	40-140
C11-C22 Aromatics	70	79	12	25	40-140
Naphthalene	58	68	16	25	40-140
2-Methylnaphthalene	57	67	16	25	40-140
Acenaphthylene	58	66	13	25	40-140
Acenaphthene	62	71	14	25	40-140
Fluorene	64	72	12	25	40-140
Phenanthrene	68	77	12	25	40-140
Anthracene	76	85	11	25	40-140
Fluoranthene	73	80	9	25	40-140
Pyrene	73	81	10	25	40-140
Benzo(a)anthracene	74	80	8	25	40-140
Chrysene	75	82	9	25	40-140
Benzo(b)fluoranthene	77	83	8	25	40-140
Benzo(k)fluoranthene	80	88	10	25	40-140
Benzo(a)pyrene	73	79	8	25	40-140
Indeno(1,2,3-cd)Pyrene	72	79	9	25	40-140
Dibenzo(a,h)anthracene	76	82	8	25	40-140
Benzo(ghi)perylene	77	84	9	25	40-140
Nonane (C9)	44	43	2	25	30-140
Decane (C10)	51	51	0	25	40-140
Dodecane (C12)	55	56	2	25	40-140
Tetradecane (C14)	54	56	4	25	40-140
Hexadecane (C16)	56	57	2	25	40-140
Octadecane (C18)	56	58	4	25	40-140
Nonadecane (C19)	57	59	3	25	40-140
Eicosane (C20)	58	60	3	25	40-140
Docosane (C22)	59	60	2	25	40-140
Tetracosane (C24)	62	64	3	25	40-140
Hexacosane (C26)	59	61	3	25	40-140
Octacosane (C28)	60	61	2	25	40-140
Triacontane (C30)	59	61	3	25	40-140
Hexatriacontane (C36)	61	63	3	25	40-140
Surrogate(s)					
Chloro-Octadecane	57	56	2		40-140
o-Terphenyl	76	87	13		40-140
2-Fluorobiphenyl	69	81	16		40-140
2-Bromonaphthalene	68	80	16		40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0718792

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Extractable Petroleum Hydrocarbons for sample(s) 01 (WG306313-2, WG306313-3)					
% Naphthalene Breakthrough	0	0	NC		
% 2-Methylnaphthalene Breakthrough	0	0	NC		

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE FRACTIONATION CHECK

Laboratory Job Number: L0718792

Parameter	% Recovery	QC Criteria
------------------	-------------------	--------------------

Fractionation Check Standard Recoveries for Lot FISH061149
--

C9-C18 Aliphatics	60	40-140
C19-C36 Aliphatics	72	40-140
C11-C22 Aromatics	83	40-140
Naphthalene	77	40-140
2-Methylnaphthalene	72	40-140
Acenaphthylene	72	40-140
Acenaphthene	74	40-140
Fluorene	74	40-140
Phenanthrene	77	40-140
Anthracene	72	40-140
Fluoranthene	82	40-140
Pyrene	82	40-140
Benzo(a)anthracene	82	40-140
Chrysene	82	40-140
Benzo(b)fluoranthene	81	40-140
Benzo(k)fluoranthene	84	40-140
Benzo(a)pyrene	76	40-140
Indeno(1,2,3-cd)Pyrene	76	40-140
Dibenzo(a,h)anthracene	80	40-140
Benzo(ghi)perylene	80	40-140
Nonane (C9)	54	30-140
Decane (C10)	58	40-140
Dodecane (C12)	62	40-140
Tetradecane (C14)	62	40-140
Hexadecane (C16)	63	40-140
Octadecane (C18)	64	40-140
Nonadecane (C19)	64	40-140
Eicosane (C20)	66	40-140
Docosane (C22)	70	40-140
Tetracosane (C24)	73	40-140
Hexacosane (C26)	76	40-140
Octacosane (C28)	77	40-140
Triacontane (C30)	78	40-140
Hexatriacontane (C36)	82	40-140
Surrogate(s)		
Chloro-Octadecane	52	40-140
o-Terphenyl	77	40-140
2-Fluorobiphenyl	76	40-140
2-Bromonaphthalene	76	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0718792

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 01 (WG306392-3)						
Volatile Organics by MCP 8260B				60 8260B	1219 13:27 BS	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
Tetrahydrofuran	ND	ug/l	10.			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0718792

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 01 (WG306392-3)						
Volatile Organics by MCP 8260B cont'd						
				60 8260B	1219 13:27	BS
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	0.60			
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	ND	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
Ethyl ether	ND	ug/l	2.5			
Isopropyl Ether	ND	ug/l	2.0			
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0			
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0			
1,4-Dioxane	ND	ug/l	250			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	104	%	70-130			
Toluene-d8	92.0	%	70-130			
4-Bromofluorobenzene	99.0	%	70-130			
Dibromofluoromethane	102	%	70-130			
Blank Analysis for sample(s) 01 (WG306234-3)						
Volatile Petroleum Hydrocarbons						
				59 VPH-04-1.1	1219 07:24	TT
C5-C8 Aliphatics, Unadjusted	ND	ug/l	50.0			
C9-C12 Aliphatics, Unadjusted	ND	ug/l	50.0			
C9-C10 Aromatics	ND	ug/l	50.0			
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0			
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0			
Surrogate(s)	Recovery		QC Criteria			
2,5-Dibromotoluene-PID	106	%	70-130			
2,5-Dibromotoluene-FID	101	%	70-130			
Blank Analysis for sample(s) 01 (WG306313-1)						
Extractable Petroleum Hydrocarbons						
				61 EPH-04-1	1218 21:00	1219 11:18 AJ

**ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0718792

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG306313-1)							
Extractable Petroleum Hydrocarbons cont'd			61 EPH-04-1	1218 21:00	1219 11:18	AJ	
C9-C18 Aliphatics	ND	mg/kg	0.100				
C19-C36 Aliphatics	ND	mg/kg	0.100				
C11-C22 Aromatics, Unadjusted	ND	mg/kg	0.100				
C11-C22 Aromatics, Adjusted	ND	mg/kg	0.100				
Surrogate(s)	Recovery		QC Criteria				
Chloro-Octadecane	62.0	%	40-140				
o-Terphenyl	64.0	%	40-140				
2-Fluorobiphenyl	78.0	%	40-140				
2-Bromonaphthalene	78.0	%	40-140				

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

59. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
60. Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.
61. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

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

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

ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0718792

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0718792-01A	Vial HCl preserved	A	N/A	4C	Y	Absent	MCP-8260-04
L0718792-01B	Vial HCl preserved	A	N/A	4C	Y	Absent	MCP-8260-04
L0718792-01C	Vial HCl preserved	A	N/A	4C	Y	Absent	VPH-04
L0718792-01D	Amber 1000ml HCl preserved	A	<2	4C	Y	Absent	EPH-04
L0718792-01E	Amber 1000ml HCl preserved	A	<2	4C	Y	Absent	EPH-04

Container Comments

Container ID	Comments
L0718792-01A	Temp Probe
L0718792-01B	Temp Probe
L0718792-01C	Temp Probe
L0718792-01D	Temp Probe
L0718792-01E	Temp Probe



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE ____ OF ____

Date Rec'd in Lab: 12/18/07

ALPHA Job #: 20710792

Client Information

Client: MCPHAIL
Address: 2269 MASS AVE

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

24 TOT Phase

Project Information

Project Name: 1325 BOYLSTON
Project Location: Boston
Project #: 4532.902
Project Manager: JOE LOMBARDO
ALPHA Quote #:

Turn-Around Time

☒ Standard ☒ RUSH (only confirmed if pre-approved)

Date Due: 12/19/07 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria
MA / MCP RCB-2

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS	VOC 8260	VPH 515	EPH 515	SAMPLE HANDLING		TOTAL # BOTTLES
				Filtration	Preservation	
				☐ Done	☐ Lab to do	5
				☐ Not needed	☐ Lab to do	
				(Please specify below)		

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
--------------------------------	-----------	--------------------	------	------------------	-----------------------

10712-01 B-3 aw

12/17

H2O RSL X X X

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

Relinquished By: [Signature] 12/17/07

Received By: [Signature] 12/18/07 16:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: McPhail Associates	Laboratory Job Number: L0719220
Address: 2269 Massachusetts Avenue	Date Received: 28-DEC-2007
Cambridge, MA 02140	Date Reported: 02-JAN-2008
Attn: Mr. Ambrose Donovan	Delivery Method: Alpha
Project Number: 4532	Site: 1325 BOYLSTON ST.

The following questions pertain only to MCP Analytical Methods

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

- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. **VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? YES

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

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? NO
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? YES

Any answers of NO to the above questions are addressed in the 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 report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____

Technical Representative

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0719220

Date Reported: 02-JAN-2008

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0719220-01	B-4 (OW)	BOSTON, MA
L0719220-02	B-5 (OW)	BOSTON, MA

**ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT**

Laboratory Job Number: L0719220

Report Submission

This report replaces the preliminary report issued on December 31, 2007. The report has been amended to include the results for all requested compounds.

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

VPH

L0719220-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question E:

The surrogate % recovery for 2,5-Dibromotoluene-FID is above method acceptance criteria on L0719220-01, due to coelution with unresolved complex mixture. The chromatogram of the sample is provided as an attachment to this report.

EPH by method EPH-04-1

Extraction method: 3510C

L0719220-01 has elevated detection limits due to the 10x dilution required by the matrix interferences encountered during the concentration of the sample and the 20x dilution required by the elevated concentrations of target compounds in the samples (total dilution 200x).

In reference to question E:

The extraction surrogates could not be recovered on L0719220-01, due to the dilutions required to quantitate the samples.

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0719220-01

B-4 (OW)

Date Collected: 28-DEC-2007 16:30

Date Received : 28-DEC-2007

Sample Matrix: WATER

Date Reported : 02-JAN-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1	1230 13:45 TT	
---------------------------------	--	--	--	---------------	---------------	--

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous preservative:

Laboratory Provided Preserved Container

Sample temperature upon receipt:

Received on Ice

C5-C8 Aliphatics	17400	ug/l	10000
C9-C12 Aliphatics	300000	ug/l	10000
C9-C10 Aromatics	175000	ug/l	10000
C5-C8 Aliphatics, Adjusted	17400	ug/l	10000
C9-C12 Aliphatics, Adjusted	124000	ug/l	10000
Benzene	ND	ug/l	400.
Toluene	ND	ug/l	400.
Ethylbenzene	ND	ug/l	400.
p/m-Xylene	ND	ug/l	400.
o-Xylene	ND	ug/l	400.
Methyl tert butyl ether	ND	ug/l	600.
Naphthalene	ND	ug/l	2000

Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	108	%	70-130
2,5-Dibromotoluene-FID	149	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0719220-01
B-4 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

Extractable Petroleum Hydrocarbons	61 EPH-04-1	1231 08:50	1231 14:06	AJ
------------------------------------	-------------	------------	------------	----

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	2570000	ug/l	20200
C19-C36 Aliphatics	312000	ug/l	20200
C11-C22 Aromatics	2260000	ug/l	20200
C11-C22 Aromatics, Adjusted	2230000	ug/l	20200
Naphthalene	3130	ug/l	2020
2-Methylnaphthalene	12200	ug/l	2020
Acenaphthylene	ND	ug/l	2020
Acenaphthene	5460	ug/l	2020
Fluorene	9880	ug/l	2020
Phenanthrene	8650	ug/l	2020
Anthracene	ND	ug/l	2020
Fluoranthene	ND	ug/l	2020
Pyrene	ND	ug/l	2020
Benzo(a)anthracene	ND	ug/l	2020
Chrysene	ND	ug/l	2020
Benzo(b)fluoranthene	ND	ug/l	2020
Benzo(k)fluoranthene	ND	ug/l	2020
Benzo(a)pyrene	ND	ug/l	2020
Indeno(1,2,3-cd)Pyrene	ND	ug/l	2020
Dibenzo(a,h)anthracene	ND	ug/l	2020
Benzo(ghi)perylene	ND	ug/l	2020

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	ND %	40-140
o-Terphenyl	ND %	40-140
2-Fluorobiphenyl	90.0 %	40-140
2-Bromonaphthalene	93.0 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0719220-02	Date Collected: 28-DEC-2007 17:00
B-5 (OW)	Date Received : 28-DEC-2007
Sample Matrix: WATER	Date Reported : 02-JAN-2008
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Amber,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Petroleum Hydrocarbons				59 VPH-04-1.1	1230 12:55 TT	

Quality Control Information

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

C5-C8 Aliphatics	1030	ug/l	250
C9-C12 Aliphatics	4110	ug/l	250
C9-C10 Aromatics	2350	ug/l	250
C5-C8 Aliphatics, Adjusted	1010	ug/l	250
C9-C12 Aliphatics, Adjusted	1750	ug/l	250
Benzene	17.8	ug/l	10.0
Toluene	ND	ug/l	10.0
Ethylbenzene	ND	ug/l	10.0
p/m-Xylene	ND	ug/l	10.0
o-Xylene	ND	ug/l	10.0
Methyl tert butyl ether	ND	ug/l	15.0
Naphthalene	69.0	ug/l	50.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	106	%	70-130
2,5-Dibromotoluene-FID	101	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0719220-02
B-5 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons	61 EPH-04-1	1231 08:50 1231 14:41 AJ
------------------------------------	-------------	--------------------------

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	13900	ug/l	103
C19-C36 Aliphatics	1030	ug/l	103
C11-C22 Aromatics	6130	ug/l	103
C11-C22 Aromatics, Adjusted	5930	ug/l	103
Naphthalene	58.0	ug/l	10.3
2-Methylnaphthalene	100	ug/l	10.3
Acenaphthylene	ND	ug/l	10.3
Acenaphthene	15.6	ug/l	10.3
Fluorene	12.4	ug/l	10.3
Phenanthrene	20.5	ug/l	10.3
Anthracene	ND	ug/l	10.3
Fluoranthene	ND	ug/l	10.3
Pyrene	ND	ug/l	10.3
Benzo(a)anthracene	ND	ug/l	10.3
Chrysene	ND	ug/l	10.3
Benzo(b)fluoranthene	ND	ug/l	10.3
Benzo(k)fluoranthene	ND	ug/l	10.3
Benzo(a)pyrene	ND	ug/l	10.3
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.3
Dibenzo(a,h)anthracene	ND	ug/l	10.3
Benzo(ghi)perylene	ND	ug/l	10.3

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	48.0	%	40-140
o-Terphenyl	91.0	%	40-140
2-Fluorobiphenyl	90.0	%	40-140
2-Bromonaphthalene	92.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0719220

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Petroleum Hydrocarbons for sample(s) 01-02 (WG307272-1, WG307272-2)					
C5-C8 Aliphatics	105	99	6	25	70-130
C9-C12 Aliphatics	103	98	5	25	70-130
C9-C10 Aromatics	104	99	5	25	70-130
Benzene	94	92	1	25	70-130
Toluene	108	105	3	25	70-130
Ethylbenzene	111	107	4	25	70-130
p/m-Xylene	112	109	3	25	70-130
o-Xylene	112	108	4	25	70-130
Methyl tert butyl ether	101	97	4	25	70-130
Naphthalene	112	110	2	25	70-130
1,2,4-Trimethylbenzene	107	101	6	25	70-130
Pentane	102	93	9	25	70-130
2-Methylpentane	91	86	6	25	70-130
2,2,4-Trimethylpentane	103	96	7	25	70-130
n-Nonane	106	102	4	25	30-130
n-Decane	109	104	5	25	70-130
n-Butylcyclohexane	102	95	7	25	70-130
Surrogate(s)					
2,5-Dibromotoluene-PID	110	105	5		70-130
2,5-Dibromotoluene-FID	112	104	7		70-130
Extractable Petroleum Hydrocarbons for sample(s) 01-02 (WG307303-2, WG307303-3)					
C9-C18 Aliphatics	62	62	0	25	40-140
C19-C36 Aliphatics	76	72	5	25	40-140
C11-C22 Aromatics	75	76	1	25	40-140
Naphthalene	68	71	4	25	40-140
2-Methylnaphthalene	66	70	6	25	40-140
Acenaphthylene	65	68	5	25	40-140
Acenaphthene	70	72	3	25	40-140
Fluorene	73	73	0	25	40-140
Phenanthrene	81	81	0	25	40-140
Anthracene	81	81	0	25	40-140
Fluoranthene	80	80	0	25	40-140
Pyrene	81	80	1	25	40-140
Benzo(a)anthracene	77	77	0	25	40-140
Chrysene	79	78	1	25	40-140
Benzo(b)fluoranthene	79	79	0	25	40-140
Benzo(k)fluoranthene	79	78	1	25	40-140
Benzo(a)pyrene	72	72	0	25	40-140
Indeno(1,2,3-cd)Pyrene	71	72	1	25	40-140
Dibenzo(a,h)anthracene	71	72	1	25	40-140
Benzo(ghi)perylene	76	76	0	25	40-140
Nonane (C9)	49	50	2	25	30-140
Decane (C10)	57	58	2	25	40-140
Dodecane (C12)	64	64	0	25	40-140
Tetradecane (C14)	66	65	2	25	40-140
Hexadecane (C16)	69	67	3	25	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0719220

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Extractable Petroleum Hydrocarbons for sample(s) 01-02 (WG307303-2, WG307303-3)					
Octadecane (C18)	71	68	4	25	40-140
Nonadecane (C19)	73	70	4	25	40-140
Eicosane (C20)	76	72	5	25	40-140
Docosane (C22)	78	74	5	25	40-140
Tetracosane (C24)	83	78	6	25	40-140
Hexacosane (C26)	80	76	5	25	40-140
Octacosane (C28)	80	76	5	25	40-140
triacontane (C30)	80	76	5	25	40-140
Hexatriacontane (C36)	79	75	5	25	40-140
Surrogate(s)					
Chloro-Octadecane	70	65	7		40-140
o-Terphenyl	77	77	0		40-140
2-Fluorobiphenyl	71	77	8		40-140
2-Bromonaphthalene	72	77	7		40-140
% Naphthalene Breakthrough	0	0	NC		
% 2-Methylnaphthalene Breakthrough	0	0	NC		

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE FRACTIONATION CHECK

Laboratory Job Number: L0719220

Parameter	% Recovery	QC Criteria
-----------	------------	-------------

Fractionation Check Standard Recoveries for Lot FISH061149
--

C9-C18 Aliphatics	60	40-140
C19-C36 Aliphatics	72	40-140
C11-C22 Aromatics	83	40-140
Naphthalene	77	40-140
2-Methylnaphthalene	72	40-140
Acenaphthylene	72	40-140
Acenaphthene	74	40-140
Fluorene	74	40-140
Phenanthrene	77	40-140
Anthracene	72	40-140
Fluoranthene	82	40-140
Pyrene	82	40-140
Benzo(a)anthracene	82	40-140
Chrysene	82	40-140
Benzo(b)fluoranthene	81	40-140
Benzo(k)fluoranthene	84	40-140
Benzo(a)pyrene	76	40-140
Indeno(1,2,3-cd)Pyrene	76	40-140
Dibenzo(a,h)anthracene	80	40-140
Benzo(ghi)perylene	80	40-140
Nonane (C9)	54	30-140
Decane (C10)	58	40-140
Dodecane (C12)	62	40-140
Tetradecane (C14)	62	40-140
Hexadecane (C16)	63	40-140
Octadecane (C18)	64	40-140
Nonadecane (C19)	64	40-140
Eicosane (C20)	66	40-140
Docosane (C22)	70	40-140
Tetracosane (C24)	73	40-140
Hexacosane (C26)	76	40-140
Octacosane (C28)	77	40-140
Triacontane (C30)	78	40-140
Hexatriacontane (C36)	82	40-140
Surrogate(s)		
Chloro-Octadecane	52	40-140
o-Terphenyl	77	40-140
2-Fluorobiphenyl	76	40-140
2-Bromonaphthalene	76	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0719220

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02 (WG307272-3)							
Volatile Petroleum Hydrocarbons				59 VPH-04-1.1	1230	10:11	TT
C5-C8 Aliphatics	ND	ug/l	50.0				
C9-C12 Aliphatics	ND	ug/l	50.0				
C9-C10 Aromatics	ND	ug/l	50.0				
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0				
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0				
Benzene	ND	ug/l	2.00				
Toluene	ND	ug/l	2.00				
Ethylbenzene	ND	ug/l	2.00				
p/m-Xylene	ND	ug/l	2.00				
o-Xylene	ND	ug/l	2.00				
Methyl tert butyl ether	ND	ug/l	3.00				
Naphthalene	ND	ug/l	10.0				
Surrogate(s)	Recovery		QC Criteria				
2,5-Dibromotoluene-PID	107	%	70-130				
2,5-Dibromotoluene-FID	105	%	70-130				
Blank Analysis for sample(s) 01-02 (WG307303-1)							
Extractable Petroleum Hydrocarbons				61 EPH-04-1	1231	08:50	1231 14:10 AJ
C9-C18 Aliphatics	ND	ug/l	100				
C19-C36 Aliphatics	ND	ug/l	100				
C11-C22 Aromatics	ND	ug/l	100				
C11-C22 Aromatics, Adjusted	ND	ug/l	100				
Naphthalene	ND	ug/l	10.0				
2-Methylnaphthalene	ND	ug/l	10.0				
Acenaphthylene	ND	ug/l	10.0				
Acenaphthene	ND	ug/l	10.0				
Fluorene	ND	ug/l	10.0				
Phenanthrene	ND	ug/l	10.0				
Anthracene	ND	ug/l	10.0				
Fluoranthene	ND	ug/l	10.0				
Pyrene	ND	ug/l	10.0				
Benzo(a)anthracene	ND	ug/l	10.0				
Chrysene	ND	ug/l	10.0				
Benzo(b)fluoranthene	ND	ug/l	10.0				
Benzo(k)fluoranthene	ND	ug/l	10.0				
Benzo(a)pyrene	ND	ug/l	10.0				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0				
Dibenzo(a,h)anthracene	ND	ug/l	10.0				
Benzo(ghi)perylene	ND	ug/l	10.0				
Surrogate(s)	Recovery		QC Criteria				
Chloro-Octadecane	51.0	%	40-140				
o-Terphenyl	67.0	%	40-140				
2-Fluorobiphenyl	74.0	%	40-140				
2-Bromonaphthalene	71.0	%	40-140				

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

59. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH).
Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004,
Revision 1.1.
61. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH).
Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004,
Revision 1.1.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

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

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

ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0719220

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0719220-01A	Vial HCl preserved	A	N/A	3.4C	Y	Absent	VPH-DELUX-04
L0719220-01B	Vial HCl preserved	A	N/A	3.4C	Y	Absent	VPH-DELUX-04
L0719220-01C	Amber 1000ml HCl preserved	A	<2	3.4C	Y	Absent	EPH-DELUX-04
L0719220-02A	Vial HCl preserved	A	N/A	3.4C	Y	Absent	VPH-DELUX-04
L0719220-02B	Vial HCl preserved	A	N/A	3.4C	Y	Absent	VPH-DELUX-04
L0719220-02C	Amber 1000ml HCl preserved	A	<2	3.4C	Y	Absent	EPH-DELUX-04

Container Comments

Container ID	Comments
--------------	----------

Data File: \\0rgserv2\ff\chem\GC\0A\Nvph.i\071230alirange.b\14nb006.d

Date : 30-DEC-2007 13:45

Client ID: 10719220-01 200X

Sample Info: 10719220-01.vphd04-1,.025

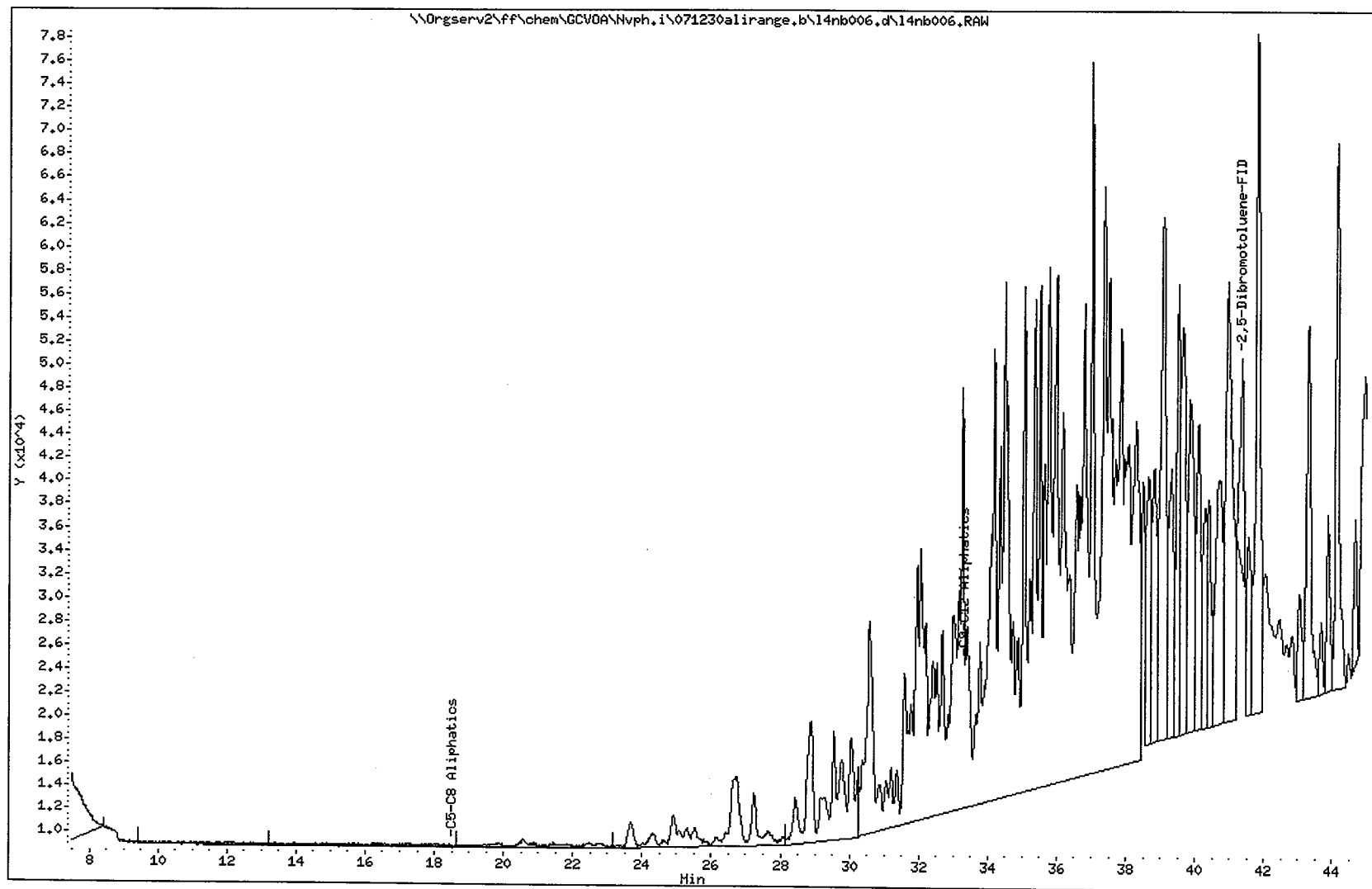
Page 3

Instrument: Nvph.i

Operator: tt

Column diameter: 2.00

Column phase:



ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: McPhail Associates	Laboratory Job Number: L0800184
Address: 2269 Massachusetts Avenue	Date Received: 07-JAN-2008
Cambridge, MA 02140	Date Reported: 09-JAN-2008
Attn: Mr. Ambrose Donovan	Delivery Method: Client
Project Number: 4532.9.01	Site: 1325 BOYLSTON ST

The following questions pertain only to MCP Analytical Methods

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

- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. **VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? YES

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

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? NO
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? NO

Any answers of NO to the above questions are addressed in the 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 report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Michelle M. Morris
Technical Representative

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0800184

Date Reported: 09-JAN-2008

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0800184-01	B-9 (OW)	BOSTON, MA
L0800184-02	B-8 (OW)	BOSTON, MA
L0800184-03	B-5 (OW)	BOSTON, MA
L0800184-04	B-7 (OW)	BOSTON, MA

**ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT**

Laboratory Job Number: L0800184

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Volatile Organics

L0800184-01 through -04 were processed against a calibration curve that utilized a quadratic fit for Chloroethane.

L0800184-02 required re-analysis on a 10x dilution in order to quantitate the sample within the range of the calibration. The result is reported as a greater than value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the range of the calibration.

In reference to question E:

The WG307933-1/2 LCS/LCSD % recoveries for Trichlorofluoromethane are above the individual acceptance criteria for the compound, but within the overall method allowances.

VPH

L0800184-04 has elevated detection limits due to the 2.5x dilution required by the elevated concentrations of target compounds in the sample.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

EPH by method EPH-04-1

Extraction method: 3510C

In reference to question E:

The WG307887-2/3 LCS/LCSD % recoveries for Nonane and Decane are below method acceptance criteria. The LCS meets acceptance criteria for all reported ranges and target polynuclear aromatic hydrocarbons. No further action was taken.

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0800184-01

B-9 (OW)

Date Collected: 07-JAN-2008 15:15

Date Received : 07-JAN-2008

Sample Matrix: WATER

Date Reported : 09-JAN-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0108 16:44 BS	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0800184-01
B-9 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0108 16:44 BS		
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	17	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	1.9	ug/l	0.50				
sec-Butylbenzene	2.1	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				
Isopropylbenzene	4.3	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	5.8	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	122	%	70-130				
Toluene-d8	90.0	%	70-130				
4-Bromofluorobenzene	93.0	%	70-130				
Dibromofluoromethane	121	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0800184-01
B-9 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons	59 VPH-04-1.1	0108 21:29 TT
---------------------------------	---------------	---------------

Quality Control Information

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

C5-C8 Aliphatics, Unadjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Unadjusted	268	ug/l	50.0
C9-C10 Aromatics	173	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	95.1	ug/l	50.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	89.0 %	70-130
2,5-Dibromotoluene-FID	84.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0800184-01
B-9 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

Extractable Petroleum Hydrocarbons	61 EPH-04-1	0108 04:00 0108 14:27 AJ
------------------------------------	-------------	--------------------------

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	1910	ug/l	103
C19-C36 Aliphatics	346	ug/l	103
C11-C22 Aromatics	1570	ug/l	103
C11-C22 Aromatics, Adjusted	1570	ug/l	103
Naphthalene	ND	ug/l	10.3
2-Methylnaphthalene	ND	ug/l	10.3
Acenaphthylene	ND	ug/l	10.3
Acenaphthene	ND	ug/l	10.3
Fluorene	ND	ug/l	10.3
Phenanthrene	ND	ug/l	10.3
Anthracene	ND	ug/l	10.3
Fluoranthene	ND	ug/l	10.3
Pyrene	ND	ug/l	10.3
Benzo(a)anthracene	ND	ug/l	10.3
Chrysene	ND	ug/l	10.3
Benzo(b)fluoranthene	ND	ug/l	10.3
Benzo(k)fluoranthene	ND	ug/l	10.3
Benzo(a)pyrene	ND	ug/l	10.3
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.3
Dibenzo(a,h)anthracene	ND	ug/l	10.3
Benzo(ghi)perylene	ND	ug/l	10.3

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	44.0 %	40-140
o-Terphenyl	65.0 %	40-140
2-Fluorobiphenyl	74.0 %	40-140
2-Bromonaphthalene	89.0 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0800184-02

B-8 (OW)

Date Collected: 07-JAN-2008 15:30

Date Received : 07-JAN-2008

Sample Matrix: WATER

Date Reported : 09-JAN-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0108 17:22 BS	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	3.6	ug/l	0.75			
Ethylbenzene	2.7	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	1.6	ug/l	1.0			
p/m-Xylene	8.6	ug/l	1.0			
o-Xylene	3.5	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0800184-02
B-8 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B cont'd				60 8260B	0108 17:22 BS	
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	>200	ug/l	5			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	7.5	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
Tetrahydrofuran	ND	ug/l	10.			
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	0.63	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	0.60			
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	11	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
Ethyl ether	ND	ug/l	2.5			
Isopropyl Ether	ND	ug/l	2.0			
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0			
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0			
1,4-Dioxane	ND	ug/l	250			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	113	%	70-130			
Toluene-d8	91.0	%	70-130			
4-Bromofluorobenzene	94.0	%	70-130			
Dibromofluoromethane	111	%	70-130			
Volatile Organics by MCP 8260B				60 8260B	0109 11:21 BS	
Acetone	460	ug/l	50			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	106	%	70-130			
Toluene-d8	99.0	%	70-130			
4-Bromofluorobenzene	98.0	%	70-130			
Dibromofluoromethane	105	%	70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0800184-02
B-8 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	------------------------	----

Volatile Petroleum Hydrocarbons	59 VPH-04-1.1	0108 22:19 TT
---------------------------------	---------------	---------------

Quality Control Information

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

C5-C8 Aliphatics, Unadjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Unadjusted	141	ug/l	50.0
C9-C10 Aromatics	96.0	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0

Surrogate(s)	Recovery	%	QC Criteria
2,5-Dibromotoluene-PID	93.0	%	70-130
2,5-Dibromotoluene-FID	91.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0800184-02
B-8 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	------------------------	----

Extractable Petroleum Hydrocarbons	61 EPH-04-1	0108 04:00	0108 12:41	AJ
------------------------------------	-------------	------------	------------	----

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	300	ug/l	102
C19-C36 Aliphatics	ND	ug/l	102
C11-C22 Aromatics	724	ug/l	102
C11-C22 Aromatics, Adjusted	708	ug/l	102
Naphthalene	15.5	ug/l	10.2
2-Methylnaphthalene	ND	ug/l	10.2
Acenaphthylene	ND	ug/l	10.2
Acenaphthene	ND	ug/l	10.2
Fluorene	ND	ug/l	10.2
Phenanthrene	ND	ug/l	10.2
Anthracene	ND	ug/l	10.2
Fluoranthene	ND	ug/l	10.2
Pyrene	ND	ug/l	10.2
Benzo(a)anthracene	ND	ug/l	10.2
Chrysene	ND	ug/l	10.2
Benzo(b)fluoranthene	ND	ug/l	10.2
Benzo(k)fluoranthene	ND	ug/l	10.2
Benzo(a)pyrene	ND	ug/l	10.2
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.2
Dibenzo(a,h)anthracene	ND	ug/l	10.2
Benzo(ghi)perylene	ND	ug/l	10.2

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	57.0 %	40-140
o-Terphenyl	72.0 %	40-140
2-Fluorobiphenyl	79.0 %	40-140
2-Bromonaphthalene	82.0 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0800184-03

B-5 (OW)

Date Collected: 07-JAN-2008 15:45

Date Received : 07-JAN-2008

Sample Matrix: WATER

Date Reported : 09-JAN-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0108 18:01 BS	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	7.4	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	8.8	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	1.1	ug/l	1.0			
p/m-Xylene	1.7	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0800184-03
B-5 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0108 18:01 BS		
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	2.2	ug/l	0.50				
sec-Butylbenzene	3.0	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				
Isopropylbenzene	31	ug/l	0.50				
p-Isopropyltoluene	1.9	ug/l	0.50				
Naphthalene	36	ug/l	2.5				
n-Propylbenzene	51	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	2.5	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	109	%	70-130				
Toluene-d8	96.0	%	70-130				
4-Bromofluorobenzene	102	%	70-130				
Dibromofluoromethane	100	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0800184-03
 B-5 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons	59 VPH-04-1.1	0108 23:10 TT
---------------------------------	---------------	---------------

Quality Control Information

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

C5-C8 Aliphatics, Unadjusted	236	ug/l	50.0
C9-C12 Aliphatics, Unadjusted	618	ug/l	50.0
C9-C10 Aromatics	435	ug/l	50.0
C5-C8 Aliphatics, Adjusted	232	ug/l	50.0
C9-C12 Aliphatics, Adjusted	176	ug/l	50.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	87.0 %	70-130
2,5-Dibromotoluene-FID	82.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0800184-03
B-5 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons	61 EPH-04-1	0108 04:00 0108 13:16 AJ
------------------------------------	-------------	--------------------------

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	ND	ug/l	100
C19-C36 Aliphatics	ND	ug/l	100
C11-C22 Aromatics	149	ug/l	100
C11-C22 Aromatics, Adjusted	112	ug/l	100
Naphthalene	25.9	ug/l	10.0
2-Methylnaphthalene	11.0	ug/l	10.0
Acenaphthylene	ND	ug/l	10.0
Acenaphthene	ND	ug/l	10.0
Fluorene	ND	ug/l	10.0
Phenanthrene	ND	ug/l	10.0
Anthracene	ND	ug/l	10.0
Fluoranthene	ND	ug/l	10.0
Pyrene	ND	ug/l	10.0
Benzo(a)anthracene	ND	ug/l	10.0
Chrysene	ND	ug/l	10.0
Benzo(b)fluoranthene	ND	ug/l	10.0
Benzo(k)fluoranthene	ND	ug/l	10.0
Benzo(a)pyrene	ND	ug/l	10.0
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0
Dibenzo(a,h)anthracene	ND	ug/l	10.0
Benzo(ghi)perylene	ND	ug/l	10.0

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	58.0	%	40-140
o-Terphenyl	73.0	%	40-140
2-Fluorobiphenyl	82.0	%	40-140
2-Bromonaphthalene	83.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0800184-04

B-7 (OW)

Date Collected: 07-JAN-2008 16:00

Date Received : 07-JAN-2008

Sample Matrix: WATER

Date Reported : 09-JAN-2008

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0108 18:40 BS	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0800184-04
B-7 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0108 18:40 BS		
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	11	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	4.6	ug/l	0.50				
sec-Butylbenzene	4.1	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				
Isopropylbenzene	5.4	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	8.0	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	111	%	70-130				
Toluene-d8	92.0	%	70-130				
4-Bromofluorobenzene	111	%	70-130				
Dibromofluoromethane	114	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0800184-04
B-7 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ID ANAL
-----------	--------	-------	-----	------------	--------------	------------

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1	0109 00:00	TT
---------------------------------	--	--	--	---------------	------------	----

Quality Control Information

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

C5-C8 Aliphatics, Unadjusted	ND	ug/l	125.
C9-C12 Aliphatics, Unadjusted	513	ug/l	125
C9-C10 Aromatics	290	ug/l	125
C5-C8 Aliphatics, Adjusted	ND	ug/l	125.
C9-C12 Aliphatics, Adjusted	223	ug/l	125

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	89.0 %	70-130
2,5-Dibromotoluene-FID	86.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0800184-04
B-7 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

Extractable Petroleum Hydrocarbons	61 EPH-04-1	0108 04:00 0108 13:51 AJ
------------------------------------	-------------	--------------------------

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	7140	ug/l	103
C19-C36 Aliphatics	1070	ug/l	103
C11-C22 Aromatics	5390	ug/l	103
C11-C22 Aromatics, Adjusted	5300	ug/l	103
Naphthalene	ND	ug/l	10.3
2-Methylnaphthalene	35.6	ug/l	10.3
Acenaphthylene	ND	ug/l	10.3
Acenaphthene	15.6	ug/l	10.3
Fluorene	11.9	ug/l	10.3
Phenanthrene	20.0	ug/l	10.3
Anthracene	ND	ug/l	10.3
Fluoranthene	ND	ug/l	10.3
Pyrene	ND	ug/l	10.3
Benzo(a)anthracene	ND	ug/l	10.3
Chrysene	ND	ug/l	10.3
Benzo(b)fluoranthene	ND	ug/l	10.3
Benzo(k)fluoranthene	ND	ug/l	10.3
Benzo(a)pyrene	ND	ug/l	10.3
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.3
Dibenzo(a,h)anthracene	ND	ug/l	10.3
Benzo(ghi)perylene	ND	ug/l	10.3

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	66.0 %	40-140
o-Terphenyl	73.0 %	40-140
2-Fluorobiphenyl	89.0 %	40-140
2-Bromonaphthalene	114 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0800184

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-04 (WG307933-1, WG307933-2)					
Methylene chloride	118	120	2	25	70-130
1,1-Dichloroethane	113	116	3	25	70-130
Chloroform	117	120	3	25	70-130
Carbon tetrachloride	122	126	3	25	70-130
1,2-Dichloropropane	106	113	6	25	70-130
Dibromochloromethane	105	116	10	25	70-130
1,1,2-Trichloroethane	90	103	13	25	70-130
Tetrachloroethene	97	98	1	25	70-130
Chlorobenzene	98	104	6	25	70-130
Trichlorofluoromethane	136	136	0	25	70-130
1,2-Dichloroethane	116	126	8	25	70-130
1,1,1-Trichloroethane	114	114	0	25	70-130
Bromodichloromethane	113	125	10	25	70-130
trans-1,3-Dichloropropene	81	93	14	25	70-130
cis-1,3-Dichloropropene	100	108	8	25	70-130
1,1-Dichloropropene	112	112	0	25	70-130
Bromoform	99	111	11	50	70-130
1,1,2,2-Tetrachloroethane	93	108	15	25	70-130
Benzene	110	111	1	25	70-130
Toluene	98	102	4	25	70-130
Ethylbenzene	100	104	4	25	70-130
Chloromethane	107	108	1	50	70-130
Bromomethane	119	125	5	50	70-130
Vinyl chloride	106	106	0	25	70-130
Chloroethane	126	118	7	25	70-130
1,1-Dichloroethene	115	108	6	25	70-130
trans-1,2-Dichloroethene	111	108	3	25	70-130
Trichloroethene	106	106	0	25	70-130
1,2-Dichlorobenzene	92	100	8	25	70-130
1,3-Dichlorobenzene	95	102	7	25	70-130
1,4-Dichlorobenzene	94	102	8	25	70-130
Methyl tert butyl ether	110	119	8	25	70-130
p/m-Xylene	104	109	5	25	70-130
o-Xylene	103	109	6	25	70-130
cis-1,2-Dichloroethene	112	112	0	25	70-130
Dibromomethane	111	122	9	25	70-130
1,2,3-Trichloropropane	96	111	14	25	70-130
Styrene	103	109	6	25	70-130
Dichlorodifluoromethane	99	101	2	50	70-130
Acetone	98	96	2	50	70-130
Carbon disulfide	89	84	6	25	70-130
2-Butanone	97	114	16	50	70-130
4-Methyl-2-pentanone	86	100	15	50	70-130
2-Hexanone	77	91	17	50	70-130
Bromochloromethane	112	120	7	25	70-130
Tetrahydrofuran	104	121	15	25	70-130
2,2-Dichloropropane	110	112	2	50	70-130
1,2-Dibromoethane	87	100	14	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0800184

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-04 (WG307933-1, WG307933-2)					
1,3-Dichloropropane	91	101	10	25	70-130
1,1,1,2-Tetrachloroethane	89	96	8	25	70-130
Bromobenzene	93	98	5	25	70-130
n-Butylbenzene	103	100	3	25	70-130
sec-Butylbenzene	101	100	1	25	70-130
tert-Butylbenzene	97	96	1	25	70-130
o-Chlorotoluene	94	98	4	25	70-130
p-Chlorotoluene	96	102	6	25	70-130
1,2-Dibromo-3-chloropropane	96	111	14	50	70-130
Hexachlorobutadiene	97	98	1	25	70-130
Isopropylbenzene	109	111	2	25	70-130
p-Isopropyltoluene	103	103	0	25	70-130
Naphthalene	81	93	14	25	70-130
n-Propylbenzene	99	100	1	25	70-130
1,2,3-Trichlorobenzene	90	102	13	25	70-130
1,2,4-Trichlorobenzene	92	103	11	25	70-130
1,3,5-Trimethylbenzene	95	98	3	25	70-130
1,2,4-Trimethylbenzene	97	100	3	25	70-130
Ethyl ether	109	117	7	25	70-130
Isopropyl Ether	103	108	5	25	70-130
Ethyl-Tert-Butyl-Ether	99	107	8	25	70-130
Tertiary-Amyl Methyl Ether	92	101	9	25	70-130
1,4-Dioxane	100	118	17	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	111	112	1		70-130
Toluene-d8	94	94	0		70-130
4-Bromofluorobenzene	93	96	3		70-130
Dibromofluoromethane	113	115	2		70-130
Volatile Organics by MCP 8260B for sample(s) 02 (WG307933-4, WG307933-5)					
Methylene chloride	113	108	5	25	70-130
1,1-Dichloroethane	106	100	6	25	70-130
Chloroform	109	103	6	25	70-130
Carbon tetrachloride	115	111	4	25	70-130
1,2-Dichloropropane	100	95	5	25	70-130
Dibromochloromethane	113	112	1	25	70-130
1,1,2-Trichloroethane	93	94	1	25	70-130
Tetrachloroethene	94	89	5	25	70-130
Chlorobenzene	101	98	3	25	70-130
Trichlorofluoromethane	119	110	8	25	70-130
1,2-Dichloroethane	109	100	9	25	70-130
1,1,1-Trichloroethane	106	97	9	25	70-130
Bromodichloromethane	110	106	4	25	70-130
trans-1,3-Dichloropropene	86	88	2	25	70-130
cis-1,3-Dichloropropene	95	94	1	25	70-130
1,1-Dichloropropene	100	95	5	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0800184

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 02 (WG307933-4, WG307933-5)					
Bromoform	110	116	5	50	70-130
1,1,2,2-Tetrachloroethane	99	100	1	25	70-130
Benzene	100	95	5	25	70-130
Toluene	100	97	3	25	70-130
Ethylbenzene	102	99	3	25	70-130
Chloromethane	94	86	9	50	70-130
Bromomethane	124	129	4	50	70-130
Vinyl chloride	93	84	10	25	70-130
Chloroethane	113	100	12	25	70-130
1,1-Dichloroethene	105	94	11	25	70-130
trans-1,2-Dichloroethene	105	97	8	25	70-130
Trichloroethene	96	90	6	25	70-130
1,2-Dichlorobenzene	100	95	5	25	70-130
1,3-Dichlorobenzene	104	100	4	25	70-130
1,4-Dichlorobenzene	101	99	2	25	70-130
Methyl tert butyl ether	108	106	2	25	70-130
p/m-Xylene	104	100	4	25	70-130
o-Xylene	108	106	2	25	70-130
cis-1,2-Dichloroethene	99	95	4	25	70-130
Dibromomethane	103	100	3	25	70-130
1,2,3-Trichloropropane	100	102	2	25	70-130
Styrene	108	105	3	25	70-130
Dichlorodifluoromethane	79	74	7	50	70-130
Acetone	94	82	14	50	70-130
Carbon disulfide	78	72	8	25	70-130
2-Butanone	93	85	9	50	70-130
4-Methyl-2-pentanone	82	80	2	50	70-130
2-Hexanone	79	82	4	50	70-130
Bromochloromethane	105	96	9	25	70-130
Tetrahydrofuran	100	96	4	25	70-130
2,2-Dichloropropane	98	92	6	50	70-130
1,2-Dibromoethane	89	93	4	25	70-130
1,3-Dichloropropane	94	94	0	25	70-130
1,1,1,2-Tetrachloroethane	96	94	2	25	70-130
Bromobenzene	99	97	2	25	70-130
n-Butylbenzene	103	99	4	25	70-130
sec-Butylbenzene	101	98	3	25	70-130
tert-Butylbenzene	99	96	3	25	70-130
o-Chlorotoluene	100	98	2	25	70-130
p-Chlorotoluene	104	103	1	25	70-130
1,2-Dibromo-3-chloropropane	106	104	2	50	70-130
Hexachlorobutadiene	106	98	8	25	70-130
Isopropylbenzene	108	103	5	25	70-130
p-Isopropyltoluene	105	102	3	25	70-130
Naphthalene	86	86	0	25	70-130
n-Propylbenzene	101	98	3	25	70-130
1,2,3-Trichlorobenzene	94	94	0	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0800184

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 02 (WG307933-4, WG307933-5)					
1,2,4-Trichlorobenzene	96	96	0	25	70-130
1,3,5-Trimethylbenzene	101	98	3	25	70-130
1,2,4-Trimethylbenzene	103	99	4	25	70-130
Ethyl ether	111	103	7	25	70-130
Isopropyl Ether	101	98	3	25	70-130
Ethyl-Tert-Butyl-Ether	97	96	1	25	70-130
Tertiary-Amyl Methyl Ether	89	89	0	25	70-130
1,4-Dioxane	101	90	12	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	107	104	3		70-130
Toluene-d8	98	99	1		70-130
4-Bromofluorobenzene	95	97	2		70-130
Dibromofluoromethane	106	107	1		70-130
Volatile Petroleum Hydrocarbons for sample(s) 01-04 (WG307928-1, WG307928-2)					
C5-C8 Aliphatics	90	106	16	25	70-130
C9-C12 Aliphatics	85	102	18	25	70-130
C9-C10 Aromatics	91	108	17	25	70-130
Benzene	78	90	14	25	70-130
Toluene	90	110	20	25	70-130
Ethylbenzene	94	114	19	25	70-130
p/m-Xylene	96	114	17	25	70-130
o-Xylene	96	114	17	25	70-130
Methyl tert butyl ether	84	98	15	25	70-130
Naphthalene	99	115	15	25	70-130
1,2,4-Trimethylbenzene	92	108	16	25	70-130
Pentane	87	99	12	25	70-130
2-Methylpentane	78	95	20	25	70-130
2,2,4-Trimethylpentane	83	105	23	25	70-130
n-Nonane	89	110	21	25	30-130
n-Decane	88	105	18	25	70-130
n-Butylcyclohexane	84	102	20	25	70-130
Surrogate(s)					
2,5-Dibromotoluene-PID	97	114	16		70-130
2,5-Dibromotoluene-FID	100	113	12		70-130
Extractable Petroleum Hydrocarbons for sample(s) 01-04 (WG307887-2, WG307887-3)					
C9-C18 Aliphatics	47	51	8	25	40-140
C19-C36 Aliphatics	64	70	9	25	40-140
C11-C22 Aromatics	63	68	8	25	40-140
Naphthalene	55	58	5	25	40-140
2-Methylnaphthalene	55	58	5	25	40-140
Acenaphthylene	55	58	5	25	40-140
Acenaphthene	60	64	6	25	40-140
Fluorene	60	63	5	25	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0800184

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Extractable Petroleum Hydrocarbons for sample(s) 01-04 (WG307887-2, WG307887-3)					
Phenanthrene	65	70	7	25	40-140
Anthracene	72	76	5	25	40-140
Fluoranthene	65	70	7	25	40-140
Pyrene	67	73	9	25	40-140
Benzo(a)anthracene	61	67	9	25	40-140
Chrysene	62	69	11	25	40-140
Benzo(b)fluoranthene	59	67	13	25	40-140
Benzo(k)fluoranthene	66	72	9	25	40-140
Benzo(a)pyrene	58	65	11	25	40-140
Indeno(1,2,3-cd)Pyrene	55	62	12	25	40-140
Dibenzo(a,h)anthracene	58	67	14	25	40-140
Benzo(ghi)perylene	58	65	11	25	40-140
Nonane (C9)	25	29	15	25	30-140
Decane (C10)	32	37	14	25	40-140
Dodecane (C12)	46	50	8	25	40-140
Tetradecane (C14)	56	61	9	25	40-140
Hexadecane (C16)	61	66	8	25	40-140
Octadecane (C18)	62	67	8	25	40-140
Nonadecane (C19)	62	68	9	25	40-140
Eicosane (C20)	64	69	8	25	40-140
Docosane (C22)	64	69	8	25	40-140
Tetracosane (C24)	68	73	7	25	40-140
Hexacosane (C26)	65	70	7	25	40-140
Octacosane (C28)	66	70	6	25	40-140
Triacontane (C30)	65	70	7	25	40-140
Hexatriacontane (C36)	66	72	9	25	40-140
Surrogate(s)					
Chloro-Octadecane	55	62	12		40-140
o-Terphenyl	74	75	1		40-140
2-Fluorobiphenyl	70	71	1		40-140
2-Bromonaphthalene	71	72	1		40-140
% Naphthalene Breakthrough	0	0	NC		
% 2-Methylnaphthalene Breakthrough	0	0	NC		

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE FRACTIONATION CHECK

Laboratory Job Number: L0800184

Parameter	% Recovery	QC Criteria
------------------	-------------------	--------------------

Fractionation Check Standard Recoveries for Lot FISH061149
--

C9-C18 Aliphatics	60	40-140
C19-C36 Aliphatics	72	40-140
C11-C22 Aromatics	83	40-140
Naphthalene	77	40-140
2-Methylnaphthalene	72	40-140
Acenaphthylene	72	40-140
Acenaphthene	74	40-140
Fluorene	74	40-140
Phenanthrene	77	40-140
Anthracene	72	40-140
Fluoranthene	82	40-140
Pyrene	82	40-140
Benzo(a)anthracene	82	40-140
Chrysene	82	40-140
Benzo(b)fluoranthene	81	40-140
Benzo(k)fluoranthene	84	40-140
Benzo(a)pyrene	76	40-140
Indeno(1,2,3-cd)Pyrene	76	40-140
Dibenzo(a,h)anthracene	80	40-140
Benzo(ghi)perylene	80	40-140
Nonane (C9)	54	30-140
Decane (C10)	58	40-140
Dodecane (C12)	62	40-140
Tetradecane (C14)	62	40-140
Hexadecane (C16)	63	40-140
Octadecane (C18)	64	40-140
Nonadecane (C19)	64	40-140
Eicosane (C20)	66	40-140
Docosane (C22)	70	40-140
Tetracosane (C24)	73	40-140
Hexacosane (C26)	76	40-140
Octacosane (C28)	77	40-140
Triacontane (C30)	78	40-140
Hexatriacontane (C36)	82	40-140
Surrogate(s)		
Chloro-Octadecane	52	40-140
o-Terphenyl	77	40-140
2-Fluorobiphenyl	76	40-140
2-Bromonaphthalene	76	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0800184

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-04 (WG307933-3)							
Volatile Organics by MCP 8260B				60 8260B	0108 10:53 BS		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0800184

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 01-04 (WG307933-3)						
Volatile Organics by MCP 8260B cont'd						
				60 8260B	0108 10:53 BS	
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	0.60			
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	ND	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
Ethyl ether	ND	ug/l	2.5			
Isopropyl Ether	ND	ug/l	2.0			
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0			
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0			
1,4-Dioxane	ND	ug/l	250			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	116	%	70-130			
Toluene-d8	93.0	%	70-130			
4-Bromofluorobenzene	94.0	%	70-130			
Dibromofluoromethane	113	%	70-130			
Blank Analysis for sample(s) 02 (WG307933-6)						
Volatile Organics by MCP 8260B						
				60 8260B	0109 10:42 BS	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0800184

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 02 (WG307933-6)						
Volatile Organics by MCP 8260B cont'd				60 8260B	0109 10:42 BS	
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
Tetrahydrofuran	ND	ug/l	10.			
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	0.60			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0800184

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 02 (WG307933-6)						
Volatile Organics by MCP 8260B cont'd						
				60 8260B	0109 10:42 BS	
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	ND	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
Ethyl ether	ND	ug/l	2.5			
Isopropyl Ether	ND	ug/l	2.0			
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0			
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0			
1,4-Dioxane	ND	ug/l	250			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	104	%	70-130			
Toluene-d8	99.0	%	70-130			
4-Bromofluorobenzene	97.0	%	70-130			
Dibromofluoromethane	103	%	70-130			
Blank Analysis for sample(s) 01-04 (WG307928-3)						
Volatile Petroleum Hydrocarbons						
				59 VPH-04-1.1	0108 08:31 TT	
C5-C8 Aliphatics, Unadjusted	ND	ug/l	50.0			
C9-C12 Aliphatics, Unadjusted	ND	ug/l	50.0			
C9-C10 Aromatics	ND	ug/l	50.0			
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0			
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0			
Surrogate(s)	Recovery		QC Criteria			
2,5-Dibromotoluene-PID	90.0	%	70-130			
2,5-Dibromotoluene-FID	88.0	%	70-130			
Blank Analysis for sample(s) 01-04 (WG307887-1)						
Extractable Petroleum Hydrocarbons						
				61 EPH-04-1	0108 04:00 0108 10:52 AJ	
C9-C18 Aliphatics	ND	ug/l	100			
C19-C36 Aliphatics	ND	ug/l	100			
C11-C22 Aromatics	ND	ug/l	100			
C11-C22 Aromatics, Adjusted	ND	ug/l	100			
Naphthalene	ND	ug/l	10.0			
2-Methylnaphthalene	ND	ug/l	10.0			
Acenaphthylene	ND	ug/l	10.0			
Acenaphthene	ND	ug/l	10.0			
Fluorene	ND	ug/l	10.0			
Phenanthrene	ND	ug/l	10.0			
Anthracene	ND	ug/l	10.0			
Fluoranthene	ND	ug/l	10.0			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0800184

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-04 (WG307887-1)							
Extractable Petroleum Hydrocarbons cont'd				61 EPH-04-1	0108 04:00	0108 10:52	AJ
Pyrene	ND	ug/l	10.0				
Benzo(a)anthracene	ND	ug/l	10.0				
Chrysene	ND	ug/l	10.0				
Benzo(b)fluoranthene	ND	ug/l	10.0				
Benzo(k)fluoranthene	ND	ug/l	10.0				
Benzo(a)pyrene	ND	ug/l	10.0				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0				
Dibenzo(a,h)anthracene	ND	ug/l	10.0				
Benzo(ghi)perylene	ND	ug/l	10.0				
Surrogate(s)	Recovery		QC Criteria				
Chloro-Octadecane	64.0	%	40-140				
o-Terphenyl	58.0	%	40-140				
2-Fluorobiphenyl	76.0	%	40-140				
2-Bromonaphthalene	75.0	%	40-140				

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

59. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
60. Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.
61. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

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

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

**ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION**

Laboratory Job Number: L0800184

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0800184-01A	Vial HCl preserved	A	N/A	6 C	Y	Absent	MCP-8260-04
L0800184-01B	Vial HCl preserved	A	N/A	6 C	Y	Absent	MCP-8260-04
L0800184-01C	Vial HCl preserved	A	N/A	6 C	Y	Absent	VPH-04
L0800184-01D	Vial HCl preserved	A	N/A	6 C	Y	Absent	VPH-04
L0800184-01E	Amber 1000ml HCl preserved	A	<2	6 C	Y	Absent	EPH-DELUX-04
L0800184-02A	Vial HCl preserved	A	N/A	6 C	Y	Absent	MCP-8260-04
L0800184-02B	Vial HCl preserved	A	N/A	6 C	Y	Absent	MCP-8260-04
L0800184-02C	Vial HCl preserved	A	N/A	6 C	Y	Absent	VPH-04
L0800184-02D	Vial HCl preserved	A	N/A	6 C	Y	Absent	VPH-04
L0800184-02E	Amber 1000ml HCl preserved	A	<2	6 C	Y	Absent	EPH-DELUX-04
L0800184-03A	Vial HCl preserved	A	N/A	6 C	Y	Absent	MCP-8260-04
L0800184-03B	Vial HCl preserved	A	N/A	6 C	Y	Absent	MCP-8260-04
L0800184-03C	Vial HCl preserved	A	N/A	6 C	Y	Absent	VPH-04
L0800184-03D	Vial HCl preserved	A	N/A	6 C	Y	Absent	VPH-04
L0800184-03E	Amber 1000ml HCl preserved	A	<2	6 C	Y	Absent	EPH-DELUX-04
L0800184-04A	Vial HCl preserved	A	N/A	6 C	Y	Absent	MCP-8260-04
L0800184-04B	Vial HCl preserved	A	N/A	6 C	Y	Absent	MCP-8260-04
L0800184-04C	Vial HCl preserved	A	N/A	6 C	Y	Absent	VPH-04
L0800184-04D	Vial HCl preserved	A	N/A	6 C	Y	Absent	VPH-04
L0800184-04E	Amber 1000ml HCl preserved	A	<2	6 C	Y	Absent	EPH-DELUX-04

Container Comments

Container ID	Comments
--------------	----------

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: McPhail Associates	Laboratory Job Number: L0801098
Address: 2269 Massachusetts Avenue	Date Received: 24-JAN-2008
Cambridge, MA 02140	Date Reported: 30-JAN-2008
Attn: Mr. Ambrose Donovan	Delivery Method: Alpha
Project Number: 4532.9.01	Site: 1325 BOYSTON ST

The following questions pertain only to MCP Analytical Methods

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

- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. **VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? YES

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

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? NO
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? YES

Any answers of NO to the above questions are addressed in the 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 report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____

Technical Representative

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0801098

Date Reported: 30-JAN-2008

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0801098-01	B-5 (OW)	BOSTON, MA

**ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT**

Laboratory Job Number: L0801098

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

VPH

L0801098-01 has elevated detection limits due to the 2.5x dilution required by the elevated concentrations of target compounds in the sample.

EPH by method EPH-04-1

Extraction method: 3510C

In reference to question E:

The WG309719-2/3 LCS/LCSD RPD for Nonane is above method acceptance criteria.

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0801098-01	Date Collected: 22-JAN-2008 16:00
B-5 (OW)	Date Received : 24-JAN-2008
Sample Matrix: WATER	Date Reported : 30-JAN-2008
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Amber,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1	0125 23:55 TT	
---------------------------------	--	--	--	---------------	---------------	--

Quality Control Information

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

C5-C8 Aliphatics	910	ug/l	125
C9-C12 Aliphatics	2760	ug/l	125
C9-C10 Aromatics	1630	ug/l	125
C5-C8 Aliphatics, Adjusted	880	ug/l	125
C9-C12 Aliphatics, Adjusted	1100	ug/l	125
Benzene	17.8	ug/l	5.00
Toluene	ND	ug/l	5.00
Ethylbenzene	26.4	ug/l	5.00
p/m-Xylene	ND	ug/l	5.00
o-Xylene	ND	ug/l	5.00
Methyl tert butyl ether	11.8	ug/l	7.50
Naphthalene	43.0	ug/l	25.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	91.0 %	70-130
2,5-Dibromotoluene-FID	91.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0801098-01
B-5 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons	61 EPH-04-1	0125 12:00	0129 13:06	RT
------------------------------------	-------------	------------	------------	----

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	1610	ug/l	103
C19-C36 Aliphatics	189	ug/l	103
C11-C22 Aromatics	466	ug/l	103
C11-C22 Aromatics, Adjusted	401	ug/l	103
Naphthalene	31.4	ug/l	10.3
2-Methylnaphthalene	34.0	ug/l	10.3
Acenaphthylene	ND	ug/l	10.3
Acenaphthene	ND	ug/l	10.3
Fluorene	ND	ug/l	10.3
Phenanthrene	ND	ug/l	10.3
Anthracene	ND	ug/l	10.3
Fluoranthene	ND	ug/l	10.3
Pyrene	ND	ug/l	10.3
Benzo(a)anthracene	ND	ug/l	10.3
Chrysene	ND	ug/l	10.3
Benzo(b)fluoranthene	ND	ug/l	10.3
Benzo(k)fluoranthene	ND	ug/l	10.3
Benzo(a)pyrene	ND	ug/l	10.3
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.3
Dibenzo(a,h)anthracene	ND	ug/l	10.3
Benzo(ghi)perylene	ND	ug/l	10.3

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	44.0	%	40-140
o-Terphenyl	66.0	%	40-140
2-Fluorobiphenyl	75.0	%	40-140
2-Bromonaphthalene	72.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0801098

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Petroleum Hydrocarbons for sample(s) 01 (WG309434-1, WG309434-2)					
C5-C8 Aliphatics	104	108	4	25	70-130
C9-C12 Aliphatics	107	110	3	25	70-130
C9-C10 Aromatics	98	106	8	25	70-130
Benzene	102	103	1	25	70-130
Toluene	102	103	1	25	70-130
Ethylbenzene	101	100	1	25	70-130
p/m-Xylene	99	105	6	25	70-130
o-Xylene	100	104	4	25	70-130
Methyl tert butyl ether	98	100	2	25	70-130
Naphthalene	94	102	8	25	70-130
1,2,4-Trimethylbenzene	100	107	7	25	70-130
Pentane	106	108	2	25	70-130
2-Methylpentane	103	108	5	25	70-130
2,2,4-Trimethylpentane	105	108	3	25	70-130
n-Nonane	106	110	4	25	30-130
n-Decane	109	111	2	25	70-130
n-Butylcyclohexane	106	110	4	25	70-130
Surrogate(s)					
2,5-Dibromotoluene-PID	96	108	12		70-130
2,5-Dibromotoluene-FID	97	109	12		70-130
Extractable Petroleum Hydrocarbons for sample(s) 01 (WG309719-2, WG309719-3)					
C9-C18 Aliphatics	59	50	17	25	40-140
C19-C36 Aliphatics	81	80	1	25	40-140
C11-C22 Aromatics	80	76	5	25	40-140
Naphthalene	71	70	1	25	40-140
2-Methylnaphthalene	70	70	0	25	40-140
Acenaphthylene	72	70	3	25	40-140
Acenaphthene	75	73	3	25	40-140
Fluorene	76	72	5	25	40-140
Phenanthrene	83	79	5	25	40-140
Anthracene	86	82	5	25	40-140
Fluoranthene	86	81	6	25	40-140
Pyrene	87	83	5	25	40-140
Benzo(a)anthracene	84	78	7	25	40-140
Chrysene	86	81	6	25	40-140
Benzo(b)fluoranthene	84	79	6	25	40-140
Benzo(k)fluoranthene	85	79	7	25	40-140
Benzo(a)pyrene	78	74	5	25	40-140
Indeno(1,2,3-cd)Pyrene	77	72	7	25	40-140
Dibenzo(a,h)anthracene	80	75	6	25	40-140
Benzo(ghi)perylene	79	75	5	25	40-140
Nonane (C9)	43	33	26	25	30-140
Decane (C10)	52	42	21	25	40-140
Dodecane (C12)	59	50	17	25	40-140
Tetradecane (C14)	62	53	16	25	40-140
Hexadecane (C16)	68	61	11	25	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0801098

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Extractable Petroleum Hydrocarbons for sample(s) 01 (WG309719-2, WG309719-3)					
Octadecane (C18)	72	66	9	25	40-140
Nonadecane (C19)	75	70	7	25	40-140
Eicosane (C20)	80	75	6	25	40-140
Docosane (C22)	83	81	2	25	40-140
Tetracosane (C24)	88	88	0	25	40-140
Hexacosane (C26)	85	86	1	25	40-140
Octacosane (C28)	85	87	2	25	40-140
triacontane (C30)	84	86	2	25	40-140
Hexatriacontane (C36)	85	85	0	25	40-140
Surrogate(s)					
Chloro-Octadecane	68	63	8		40-140
o-Terphenyl	82	74	10		40-140
2-Fluorobiphenyl	83	77	8		40-140
2-Bromonaphthalene	82	77	6		40-140
% Naphthalene Breakthrough	0	0	NC		
% 2-Methylnaphthalene Breakthrough	0	0	NC		

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE FRACTIONATION CHECK

Laboratory Job Number: L0801098

Parameter	% Recovery	QC Criteria
------------------	-------------------	--------------------

Fractionation Check Standard Recoveries for Lot FISH061149
--

C9-C18 Aliphatics	60	40-140
C19-C36 Aliphatics	72	40-140
C11-C22 Aromatics	83	40-140
Naphthalene	77	40-140
2-Methylnaphthalene	72	40-140
Acenaphthylene	72	40-140
Acenaphthene	74	40-140
Fluorene	74	40-140
Phenanthrene	77	40-140
Anthracene	72	40-140
Fluoranthene	82	40-140
Pyrene	82	40-140
Benzo(a)anthracene	82	40-140
Chrysene	82	40-140
Benzo(b)fluoranthene	81	40-140
Benzo(k)fluoranthene	84	40-140
Benzo(a)pyrene	76	40-140
Indeno(1,2,3-cd)Pyrene	76	40-140
Dibenzo(a,h)anthracene	80	40-140
Benzo(ghi)perylene	80	40-140
Nonane (C9)	54	30-140
Decane (C10)	58	40-140
Dodecane (C12)	62	40-140
Tetradecane (C14)	62	40-140
Hexadecane (C16)	63	40-140
Octadecane (C18)	64	40-140
Nonadecane (C19)	64	40-140
Eicosane (C20)	66	40-140
Docosane (C22)	70	40-140
Tetracosane (C24)	73	40-140
Hexacosane (C26)	76	40-140
Octacosane (C28)	77	40-140
Triacontane (C30)	78	40-140
Hexatriacontane (C36)	82	40-140
Surrogate(s)		
Chloro-Octadecane	52	40-140
o-Terphenyl	77	40-140
2-Fluorobiphenyl	76	40-140
2-Bromonaphthalene	76	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0801098

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 01 (WG309434-3)						
Volatile Petroleum Hydrocarbons 59 VPH-04-1.1 0125 05:59 TT						
C5-C8 Aliphatics	ND	ug/l	50.0			
C9-C12 Aliphatics	ND	ug/l	50.0			
C9-C10 Aromatics	ND	ug/l	50.0			
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0			
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0			
Benzene	ND	ug/l	2.00			
Toluene	ND	ug/l	2.00			
Ethylbenzene	ND	ug/l	2.00			
p/m-Xylene	ND	ug/l	2.00			
o-Xylene	ND	ug/l	2.00			
Methyl tert butyl ether	ND	ug/l	3.00			
Naphthalene	ND	ug/l	10.0			
Surrogate(s)	Recovery		QC Criteria			
2,5-Dibromotoluene-PID	95.0	%	70-130			
2,5-Dibromotoluene-FID	96.0	%	70-130			
Blank Analysis for sample(s) 01 (WG309719-1)						
Extractable Petroleum Hydrocarbons 61 EPH-04-1 0125 12:00 0128 17:17 RT						
C9-C18 Aliphatics	ND	ug/l	100			
C19-C36 Aliphatics	ND	ug/l	100			
C11-C22 Aromatics	ND	ug/l	100			
C11-C22 Aromatics, Adjusted	ND	ug/l	100			
Naphthalene	ND	ug/l	10.0			
2-Methylnaphthalene	ND	ug/l	10.0			
Acenaphthylene	ND	ug/l	10.0			
Acenaphthene	ND	ug/l	10.0			
Fluorene	ND	ug/l	10.0			
Phenanthrene	ND	ug/l	10.0			
Anthracene	ND	ug/l	10.0			
Fluoranthene	ND	ug/l	10.0			
Pyrene	ND	ug/l	10.0			
Benzo(a)anthracene	ND	ug/l	10.0			
Chrysene	ND	ug/l	10.0			
Benzo(b)fluoranthene	ND	ug/l	10.0			
Benzo(k)fluoranthene	ND	ug/l	10.0			
Benzo(a)pyrene	ND	ug/l	10.0			
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0			
Dibenzo(a,h)anthracene	ND	ug/l	10.0			
Benzo(ghi)perylene	ND	ug/l	10.0			
Surrogate(s)	Recovery		QC Criteria			
Chloro-Octadecane	56.0	%	40-140			
o-Terphenyl	65.0	%	40-140			
2-Fluorobiphenyl	81.0	%	40-140			
2-Bromonaphthalene	80.0	%	40-140			

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

59. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH).
Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004,
Revision 1.1.
61. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH).
Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004,
Revision 1.1.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

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

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

ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0801098

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0801098-01A	Vial HCl preserved	A	NA	2.8C	Y	Absent	VPH-DELUX-04
L0801098-01B	Vial HCl preserved	A	NA	2.8C	Y	Absent	VPH-DELUX-04
L0801098-01C	Amber 1000ml HCl preserved	A	<2	2.8C	Y	Absent	EPH-DELUX-04
L0801098-01D	Amber 1000ml HCl preserved	A	<2	2.8C	Y	Absent	EPH-DELUX-04

Container Comments

Container ID	Comments
--------------	----------

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: McPhail Associates

Laboratory Job Number: L0609324

Address: 30 Norfolk Street

Cambridge, MA 02139

Date Received: 30-JUN-2006

Attn: Mr. Ambrose Donovan

Date Reported: 11-JUL-2006

Project Number: 4532

Delivery Method: Alpha

Site: 1341 BOYLSTON, ST

The following questions pertain only to MCP Analytical Methods

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

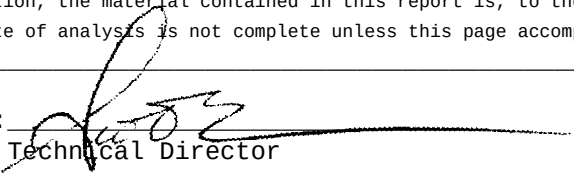
- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. **VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? YES

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

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? NO
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? NO

Any answers of NO to the above questions are addressed in the 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 report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: 
Technical Director

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0609324

Date Reported: 11-JUL-2006

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0609324-01	B-1 (OW)	BOSTON, MA
L0609324-02	B-3 (OW)	BOSTON, MA
L0609324-03	B-11 (OW)	BOSTON, MA
L0609324-04	B-12 (OW)	BOSTON, MA
L0609324-05	B-14 (OW)	BOSTON, MA

**ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT**

Laboratory Job Number: L0609324

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives:

Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Volatile Organics

L0609324-01 has elevated limits of detection due to the 2x dilutions required by the elevated concentrations of target compounds in the sample.

In reference to question E:

The WG245792-1/2 LCS/LCSD have high recoveries for trichlorofluoromethane, 1,4-dioxane and the LCSD has a low recovery for carbon disulfide.

The WG245302-13/14 LCS/LCSD have high recoveries for trichlorofluoromethane, acetone, 1,2-dichloroethane and 1,4-dioxane.

VPH

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

EPH

WG245208:

Extraction method 3510C

L0609324-01 has the surrogate % recovery for 1 chloro octadecane below the acceptance criteria for the method. The sample was re-extracted and results were confirmed. Both sets of data are being reported.

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0609324-01

Date Collected: 30-JUN-2006 12:00

B-1 (OW)

Date Received : 30-JUN-2006

Sample Matrix: WATER

Date Reported : 11-JUL-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0711 01:33 BT	
Methylene chloride	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.5			
Chloroform	ND	ug/l	1.5			
Carbon tetrachloride	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	3.5			
Dibromochloromethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.5			
Tetrachloroethene	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	5.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
Bromodichloromethane	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
1,1-Dichloropropene	ND	ug/l	5.0			
Bromoform	ND	ug/l	4.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Benzene	ND	ug/l	1.0			
Toluene	ND	ug/l	1.5			
Ethylbenzene	ND	ug/l	1.0			
Chloromethane	ND	ug/l	5.0			
Bromomethane	ND	ug/l	2.0			
Vinyl chloride	ND	ug/l	2.0			
Chloroethane	ND	ug/l	2.0			
1,1-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.5			
Trichloroethene	ND	ug/l	1.0			
1,2-Dichlorobenzene	ND	ug/l	5.0			
1,3-Dichlorobenzene	ND	ug/l	5.0			
1,4-Dichlorobenzene	ND	ug/l	5.0			
Methyl tert butyl ether	76	ug/l	2.0			
p/m-Xylene	ND	ug/l	2.0			
o-Xylene	ND	ug/l	2.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
Dibromomethane	ND	ug/l	10.			
1,2,3-Trichloropropane	ND	ug/l	10.			
Styrene	ND	ug/l	2.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-01
B-1 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0711 01:33 BT		
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	10	ug/l	10				
Carbon disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	5.0				
Tetrahydrofuran	ND	ug/l	20.				
2,2-Dichloropropane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	4.0				
1,3-Dichloropropane	ND	ug/l	5.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	5.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	5.0				
o-Chlorotoluene	ND	ug/l	5.0				
p-Chlorotoluene	ND	ug/l	5.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	1.2				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
Ethyl ether	ND	ug/l	5.0				
Isopropyl Ether	9.7	ug/l	4.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	4.0				
Tertiary-Amyl Methyl Ether	63	ug/l	4.0				
1,4-Dioxane	ND	ug/l	500				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	119	%	70-130				
Toluene-d8	87.0	%	70-130				
4-Bromofluorobenzene	103	%	70-130				
Dibromofluoromethane	104	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-01
 B-1 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons	59 VPH-04-1.1	0706 20:08 TT
---------------------------------	---------------	---------------

Quality Control Information

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

C5-C8 Aliphatics, Unadjusted	136	ug/l	50.0
C9-C12 Aliphatics, Unadjusted	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	64.4	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	84.0 %	70-130
2,5-Dibromotoluene-FID	77.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-01
B-1 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	----------------------	----

Extractable Petroleum Hydrocarbons	61 EPH-04-1	0705 16:00 0707 20:39 BN
------------------------------------	-------------	--------------------------

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	ND	ug/l	105
C19-C36 Aliphatics	ND	ug/l	105.
C11-C22 Aromatics	ND	ug/l	105
C11-C22 Aromatics, Adjusted	ND	ug/l	105
Naphthalene	ND	ug/l	10.5
2-Methylnaphthalene	ND	ug/l	10.5
Acenaphthylene	ND	ug/l	10.5
Acenaphthene	ND	ug/l	10.5
Fluorene	ND	ug/l	10.5
Phenanthrene	ND	ug/l	10.5
Anthracene	ND	ug/l	10.5
Fluoranthene	ND	ug/l	10.5
Pyrene	ND	ug/l	10.5
Benzo(a)anthracene	ND	ug/l	10.5
Chrysene	ND	ug/l	10.5
Benzo(b)fluoranthene	ND	ug/l	10.5
Benzo(k)fluoranthene	ND	ug/l	10.5
Benzo(a)pyrene	ND	ug/l	10.5
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.5
Dibenzo(a,h)anthracene	ND	ug/l	10.5
Benzo(ghi)perylene	ND	ug/l	10.5

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	29.0 %	40-140
o-Terphenyl	49.0 %	40-140
2-Fluorobiphenyl	96.0 %	40-140
2-Bromonaphthalene	98.0 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0609324-01
B-1 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons	61 EPH-04-1	0710 11:30	0710 19:39	BN
------------------------------------	-------------	------------	------------	----

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	ND	ug/l	105
C19-C36 Aliphatics	ND	ug/l	105.
C11-C22 Aromatics	ND	ug/l	105
C11-C22 Aromatics, Adjusted	ND	ug/l	105
Naphthalene	ND	ug/l	10.5
2-Methylnaphthalene	ND	ug/l	10.5
Acenaphthylene	ND	ug/l	10.5
Acenaphthene	ND	ug/l	10.5
Fluorene	ND	ug/l	10.5
Phenanthrene	ND	ug/l	10.5
Anthracene	ND	ug/l	10.5
Fluoranthene	ND	ug/l	10.5
Pyrene	ND	ug/l	10.5
Benzo(a)anthracene	ND	ug/l	10.5
Chrysene	ND	ug/l	10.5
Benzo(b)fluoranthene	ND	ug/l	10.5
Benzo(k)fluoranthene	ND	ug/l	10.5
Benzo(a)pyrene	ND	ug/l	10.5
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.5
Dibenzo(a,h)anthracene	ND	ug/l	10.5
Benzo(ghi)perylene	ND	ug/l	10.5

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	37.0	%	40-140
o-Terphenyl	59.0	%	40-140
2-Fluorobiphenyl	77.0	%	40-140
2-Bromonaphthalene	75.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0609324-02	Date Collected: 30-JUN-2006 12:00
Sample Matrix: B-3 (OW) WATER	Date Received : 30-JUN-2006
	Date Reported : 11-JUL-2006
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Amber,1-Plastic,4-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Antimony, Dissolved	ND	mg/l	0.050	60 6010B	0705 20:00 0710 13:51	CF
Arsenic, Dissolved	ND	mg/l	0.005	60 6010B	0705 20:00 0710 13:51	CF
Beryllium, Dissolved	ND	mg/l	0.005	60 6010B	0705 20:00 0710 13:51	CF
Cadmium, Dissolved	ND	mg/l	0.004	60 6010B	0705 20:00 0710 13:51	CF
Chromium, Dissolved	ND	mg/l	0.01	60 6010B	0705 20:00 0710 13:51	CF
Copper, Dissolved	ND	mg/l	0.01	60 6010B	0705 20:00 0710 13:51	CF
Lead, Dissolved	ND	mg/l	0.010	60 6010B	0705 20:00 0710 13:51	CF
Mercury, Dissolved	ND	mg/l	0.0002	64 7470A	0707 18:00 0710 11:52	DM
Nickel, Dissolved	ND	mg/l	0.025	60 6010B	0705 20:00 0710 13:51	CF
Selenium, Dissolved	ND	mg/l	0.010	60 6010B	0705 20:00 0710 13:51	CF
Silver, Dissolved	ND	mg/l	0.007	60 6010B	0705 20:00 0710 13:51	CF
Thallium, Dissolved	ND	mg/l	0.005	60 6010B	0705 20:00 0710 13:51	CF
Zinc, Dissolved	ND	mg/l	0.05	60 6010B	0705 20:00 0710 13:51	CF
Volatile Organics by MCP 8260B				60 8260B	0711 02:10	BT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-02
B-3 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0711 02:10 BT		
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-02
B-3 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0711 02:10 BT		
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	125	%	70-130				
Toluene-d8	86.0	%	70-130				
4-Bromofluorobenzene	94.0	%	70-130				
Dibromofluoromethane	108	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-02
 B-3 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons	59 VPH-04-1.1	0706 20:58 TT
---------------------------------	---------------	---------------

Quality Control Information

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

C5-C8 Aliphatics, Unadjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Unadjusted	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	84.0 %	70-130
2,5-Dibromotoluene-FID	88.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-02
B-3 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons	61 EPH-04-1	0705 16:00 0707 22:52 BN
------------------------------------	-------------	--------------------------

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	ND	ug/l	104
C19-C36 Aliphatics	ND	ug/l	104
C11-C22 Aromatics	ND	ug/l	104
C11-C22 Aromatics, Adjusted	ND	ug/l	104
Naphthalene	ND	ug/l	10.4
2-Methylnaphthalene	ND	ug/l	10.4
Acenaphthylene	ND	ug/l	10.4
Acenaphthene	ND	ug/l	10.4
Fluorene	ND	ug/l	10.4
Phenanthrene	ND	ug/l	10.4
Anthracene	ND	ug/l	10.4
Fluoranthene	ND	ug/l	10.4
Pyrene	ND	ug/l	10.4
Benzo(a)anthracene	ND	ug/l	10.4
Chrysene	ND	ug/l	10.4
Benzo(b)fluoranthene	ND	ug/l	10.4
Benzo(k)fluoranthene	ND	ug/l	10.4
Benzo(a)pyrene	ND	ug/l	10.4
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.4
Dibenzo(a,h)anthracene	ND	ug/l	10.4
Benzo(ghi)perylene	ND	ug/l	10.4

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	44.0	%	40-140
o-Terphenyl	76.0	%	40-140
2-Fluorobiphenyl	71.0	%	40-140
2-Bromonaphthalene	72.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0609324-03

Date Collected: 30-JUN-2006 12:00

B-11 (OW)

Date Received : 30-JUN-2006

Sample Matrix: WATER

Date Reported : 11-JUL-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0711 13:42 BT	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-03
B-11 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0711 13:42 BT		
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	0.63	ug/l	0.60				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	116	%	70-130				
Toluene-d8	85.0	%	70-130				
4-Bromofluorobenzene	94.0	%	70-130				
Dibromofluoromethane	104	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0609324-03
B-11 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons	59 VPH-04-1.1	0706 21:49 TT
---------------------------------	---------------	---------------

Quality Control Information

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

C5-C8 Aliphatics, Unadjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Unadjusted	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	87.0 %	70-130
2,5-Dibromotoluene-FID	91.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-03
B-11 (0W)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons	61 EPH-04-1	0705 16:00 0707 21:13 BN
------------------------------------	-------------	--------------------------

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	ND	ug/l	103
C19-C36 Aliphatics	ND	ug/l	103
C11-C22 Aromatics	ND	ug/l	103
C11-C22 Aromatics, Adjusted	ND	ug/l	103
Naphthalene	ND	ug/l	10.3
2-Methylnaphthalene	ND	ug/l	10.3
Acenaphthylene	ND	ug/l	10.3
Acenaphthene	ND	ug/l	10.3
Fluorene	ND	ug/l	10.3
Phenanthrene	ND	ug/l	10.3
Anthracene	ND	ug/l	10.3
Fluoranthene	ND	ug/l	10.3
Pyrene	ND	ug/l	10.3
Benzo(a)anthracene	ND	ug/l	10.3
Chrysene	ND	ug/l	10.3
Benzo(b)fluoranthene	ND	ug/l	10.3
Benzo(k)fluoranthene	ND	ug/l	10.3
Benzo(a)pyrene	ND	ug/l	10.3
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.3
Dibenzo(a,h)anthracene	ND	ug/l	10.3
Benzo(ghi)perylene	ND	ug/l	10.3

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	46.0	%	40-140
o-Terphenyl	73.0	%	40-140
2-Fluorobiphenyl	74.0	%	40-140
2-Bromonaphthalene	75.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0609324-04	Date Collected: 30-JUN-2006 12:00
	Date Received : 30-JUN-2006
Sample Matrix: B-12 (OW) WATER	Date Reported : 11-JUL-2006
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Amber,4-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0711 14:18 BT	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	46	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	1.5	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	1.6	ug/l	1.0			
p/m-Xylene	4.6	ug/l	1.0			
o-Xylene	1.0	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-04
B-12 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0711 14:18 BT		
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	12	ug/l	0.50				
sec-Butylbenzene	9.8	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				
Isopropylbenzene	20	ug/l	0.50				
p-Isopropyltoluene	7.4	ug/l	0.50				
Naphthalene	3.8	ug/l	2.5				
n-Propylbenzene	33	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	12	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	100	%	70-130				
Toluene-d8	96.0	%	70-130				
4-Bromofluorobenzene	110	%	70-130				
Dibromofluoromethane	105	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-04
B-12 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons	59 VPH-04-1.1	0706 22:40 TT
---------------------------------	---------------	---------------

Quality Control Information

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

C5-C8 Aliphatics, Unadjusted	1380	ug/l	50.0
C9-C12 Aliphatics, Unadjusted	980	ug/l	50.0
C9-C10 Aromatics	579	ug/l	50.0
C5-C8 Aliphatics, Adjusted	1330	ug/l	50.0
C9-C12 Aliphatics, Adjusted	397	ug/l	50.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	82.0 %	70-130
2,5-Dibromotoluene-FID	75.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-04
B-12 (0W)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	----------------------	----

Extractable Petroleum Hydrocarbons	61 EPH-04-1	0705 16:00 0707 21:46 BN
------------------------------------	-------------	--------------------------

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	ND	ug/l	104
C19-C36 Aliphatics	ND	ug/l	104
C11-C22 Aromatics	249	ug/l	104
C11-C22 Aromatics, Adjusted	249	ug/l	104
Naphthalene	ND	ug/l	10.4
2-Methylnaphthalene	ND	ug/l	10.4
Acenaphthylene	ND	ug/l	10.4
Acenaphthene	ND	ug/l	10.4
Fluorene	ND	ug/l	10.4
Phenanthrene	ND	ug/l	10.4
Anthracene	ND	ug/l	10.4
Fluoranthene	ND	ug/l	10.4
Pyrene	ND	ug/l	10.4
Benzo(a)anthracene	ND	ug/l	10.4
Chrysene	ND	ug/l	10.4
Benzo(b)fluoranthene	ND	ug/l	10.4
Benzo(k)fluoranthene	ND	ug/l	10.4
Benzo(a)pyrene	ND	ug/l	10.4
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.4
Dibenzo(a,h)anthracene	ND	ug/l	10.4
Benzo(ghi)perylene	ND	ug/l	10.4

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	50.0 %	40-140
o-Terphenyl	79.0 %	40-140
2-Fluorobiphenyl	80.0 %	40-140
2-Bromonaphthalene	80.0 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0609324-05	Date Collected: 30-JUN-2006 12:00
Sample Matrix: B-14 (OW)	Date Received : 30-JUN-2006
Condition of Sample: Satisfactory	Date Reported : 11-JUL-2006
Field Prep: None	
Number & Type of Containers: 2-Amber,1-Plastic,4-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Antimony, Dissolved	ND	mg/l	0.050	60 6010B	0705 20:00 0710 14:15	CF
Arsenic, Dissolved	ND	mg/l	0.005	60 6010B	0705 20:00 0710 14:15	CF
Beryllium, Dissolved	ND	mg/l	0.005	60 6010B	0705 20:00 0710 14:15	CF
Cadmium, Dissolved	ND	mg/l	0.004	60 6010B	0705 20:00 0710 14:15	CF
Chromium, Dissolved	ND	mg/l	0.01	60 6010B	0705 20:00 0710 14:15	CF
Copper, Dissolved	0.03	mg/l	0.01	60 6010B	0705 20:00 0710 14:15	CF
Lead, Dissolved	ND	mg/l	0.010	60 6010B	0705 20:00 0710 14:15	CF
Mercury, Dissolved	ND	mg/l	0.0002	64 7470A	0707 18:00 0710 11:54	DM
Nickel, Dissolved	ND	mg/l	0.025	60 6010B	0705 20:00 0710 14:15	CF
Selenium, Dissolved	ND	mg/l	0.010	60 6010B	0705 20:00 0710 14:15	CF
Silver, Dissolved	ND	mg/l	0.007	60 6010B	0705 20:00 0710 14:15	CF
Thallium, Dissolved	ND	mg/l	0.005	60 6010B	0705 20:00 0710 14:15	CF
Zinc, Dissolved	ND	mg/l	0.05	60 6010B	0705 20:00 0710 14:15	CF
Volatile Organics by MCP 8260B				60 8260B	0711 14:56	BT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-05
B-14 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0711 14:56 BT		
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	1.0	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				
Isopropylbenzene	0.94	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	0.73	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-05
B-14 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0711 14:56 BT		
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	119	%	70-130				
Toluene-d8	86.0	%	70-130				
4-Bromofluorobenzene	92.0	%	70-130				
Dibromofluoromethane	104	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-05
 B-14 (OW)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons	59 VPH-04-1.1	0706 23:30 TT
---------------------------------	---------------	---------------

Quality Control Information

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

C5-C8 Aliphatics, Unadjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Unadjusted	58.0	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	58.0	ug/l	50.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	90.0 %	70-130
2,5-Dibromotoluene-FID	87.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0609324-05
B-14 (0W)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	------------------------	----

Extractable Petroleum Hydrocarbons	61 EPH-04-1	0705 16:00 0707 22:19 BN
------------------------------------	-------------	--------------------------

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method

C9-C18 Aliphatics	121	ug/l	104
C19-C36 Aliphatics	ND	ug/l	104
C11-C22 Aromatics	154	ug/l	104
C11-C22 Aromatics, Adjusted	154	ug/l	104
Naphthalene	ND	ug/l	10.4
2-Methylnaphthalene	ND	ug/l	10.4
Acenaphthylene	ND	ug/l	10.4
Acenaphthene	ND	ug/l	10.4
Fluorene	ND	ug/l	10.4
Phenanthrene	ND	ug/l	10.4
Anthracene	ND	ug/l	10.4
Fluoranthene	ND	ug/l	10.4
Pyrene	ND	ug/l	10.4
Benzo(a)anthracene	ND	ug/l	10.4
Chrysene	ND	ug/l	10.4
Benzo(b)fluoranthene	ND	ug/l	10.4
Benzo(k)fluoranthene	ND	ug/l	10.4
Benzo(a)pyrene	ND	ug/l	10.4
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.4
Dibenzo(a,h)anthracene	ND	ug/l	10.4
Benzo(ghi)perylene	ND	ug/l	10.4

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	49.0 %	40-140
o-Terphenyl	85.0 %	40-140
2-Fluorobiphenyl	82.0 %	40-140
2-Bromonaphthalene	86.0 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0609324

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Dissolved Metals by MCP 6000/7000 series for sample(s) 02,05 (WG245234-2, WG245234-3)					
Antimony, Dissolved	98	102	4	20	80-120
Arsenic, Dissolved	104	107	3	20	80-120
Beryllium, Dissolved	101	103	2	20	80-120
Cadmium, Dissolved	101	104	3	20	80-120
Chromium, Dissolved	100	100	0	20	80-120
Copper, Dissolved	92	92	0	20	80-120
Lead, Dissolved	102	105	3	20	80-120
Nickel, Dissolved	95	97	2	20	80-120
Selenium, Dissolved	110	112	2	20	80-120
Silver, Dissolved	100	102	2	20	80-120
Thallium, Dissolved	103	108	5	20	80-120
Zinc, Dissolved	102	106	4	20	80-120
Dissolved Metals by MCP 6000/7000 series for sample(s) 02,05 (WG245524-2, WG245524-3)					
Mercury, Dissolved	103	101	2	20	80-120
Volatile Organics by MCP 8260B for sample(s) 03-05 (WG245302-13, WG245302-14)					
Methylene chloride	90	88	2	25	70-130
1,1-Dichloroethane	99	100	1	25	70-130
Chloroform	119	117	2	25	70-130
Carbon tetrachloride	126	132	5	25	70-130
1,2-Dichloropropane	86	83	4	25	70-130
Dibromochloromethane	108	112	4	25	70-130
1,1,2-Trichloroethane	92	96	4	25	70-130
Tetrachloroethene	104	110	6	25	70-130
Chlorobenzene	94	102	8	25	70-130
Trichlorofluoromethane	146	150	3	25	70-130
1,2-Dichloroethane	137	137	0	25	70-130
1,1,1-Trichloroethane	126	129	2	25	70-130
Bromodichloromethane	110	111	1	25	70-130
trans-1,3-Dichloropropene	92	101	9	25	70-130
cis-1,3-Dichloropropene	90	91	1	25	70-130
1,1-Dichloropropene	101	103	2	25	70-130
Bromoform	108	113	5	50	70-130
1,1,2,2-Tetrachloroethane	84	86	2	25	70-130
Benzene	91	93	2	25	70-130
Toluene	94	99	5	25	70-130
Ethylbenzene	99	105	6	25	70-130
Chloromethane	80	81	1	50	70-130
Bromomethane	70	81	15	50	70-130
Vinyl chloride	80	82	2	25	70-130
Chloroethane	90	89	1	25	70-130
1,1-Dichloroethene	95	93	2	25	70-130
trans-1,2-Dichloroethene	96	93	3	25	70-130
Trichloroethene	104	104	0	25	70-130
1,2-Dichlorobenzene	98	100	2	25	70-130
1,3-Dichlorobenzene	99	101	2	25	70-130
1,4-Dichlorobenzene	98	100	2	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0609324

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 03-05 (WG245302-13, WG245302-14)					
Methyl tert butyl ether	88	87	1	25	70-130
p/m-Xylene	101	106	5	25	70-130
o-Xylene	97	101	4	25	70-130
cis-1,2-Dichloroethene	98	102	4	25	70-130
Dibromomethane	108	112	4	25	70-130
1,2,3-Trichloropropane	100	96	4	25	70-130
Styrene	98	102	4	25	70-130
Dichlorodifluoromethane	88	84	5	50	70-130
Acetone	145	129	12	50	70-130
Carbon disulfide	94	92	2	25	70-130
2-Butanone	124	128	3	50	70-130
4-Methyl-2-pentanone	96	91	5	50	70-130
2-Hexanone	98	104	6	50	70-130
Bromochloromethane	109	112	3	25	70-130
Tetrahydrofuran	96	89	8	25	70-130
2,2-Dichloropropane	104	105	1	50	70-130
1,2-Dibromoethane	99	101	2	25	70-130
1,3-Dichloropropane	93	98	5	25	70-130
1,1,1,2-Tetrachloroethane	110	117	6	25	70-130
Bromobenzene	99	101	2	25	70-130
n-Butylbenzene	91	92	1	25	70-130
sec-Butylbenzene	92	94	2	25	70-130
tert-Butylbenzene	95	98	3	25	70-130
o-Chlorotoluene	90	92	2	25	70-130
p-Chlorotoluene	94	96	2	25	70-130
1,2-Dibromo-3-chloropropane	101	100	1	50	70-130
Hexachlorobutadiene	111	111	0	25	70-130
Isopropylbenzene	108	114	5	25	70-130
p-Isopropyltoluene	98	100	2	25	70-130
Naphthalene	84	89	6	25	70-130
n-Propylbenzene	90	92	2	25	70-130
1,2,3-Trichlorobenzene	97	101	4	25	70-130
1,2,4-Trichlorobenzene	90	93	3	25	70-130
1,3,5-Trimethylbenzene	98	99	1	25	70-130
1,2,4-Trimethylbenzene	97	98	1	25	70-130
Ethyl ether	82	84	2	25	70-130
Isopropyl Ether	93	94	1	25	70-130
Ethyl-Tert-Butyl-Ether	95	94	1	25	70-130
Tertiary-Amyl Methyl Ether	92	93	1	25	70-130
1,4-Dioxane	149	154	3	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	128	127	1		70-130
Toluene-d8	86	87	1		70-130
4-Bromofluorobenzene	82	83	1		70-130
Dibromofluoromethane	109	112	3		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0609324

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-02 (WG245792-1, WG245792-2)					
Methylene chloride	100	92	8	25	70-130
1,1-Dichloroethane	99	94	5	25	70-130
Chloroform	115	112	3	25	70-130
Carbon tetrachloride	123	118	4	25	70-130
1,2-Dichloropropane	87	82	6	25	70-130
Dibromochloromethane	102	103	1	25	70-130
1,1,2-Trichloroethane	92	88	4	25	70-130
Tetrachloroethene	110	103	7	25	70-130
Chlorobenzene	100	95	5	25	70-130
Trichlorofluoromethane	150	141	6	25	70-130
1,2-Dichloroethane	129	122	6	25	70-130
1,1,1-Trichloroethane	124	116	7	25	70-130
Bromodichloromethane	103	104	1	25	70-130
trans-1,3-Dichloropropene	93	88	6	25	70-130
cis-1,3-Dichloropropene	88	84	5	25	70-130
1,1-Dichloropropene	104	98	6	25	70-130
Bromoform	100	106	6	50	70-130
1,1,2,2-Tetrachloroethane	81	87	7	25	70-130
Benzene	93	85	9	25	70-130
Toluene	97	91	6	25	70-130
Ethylbenzene	102	98	4	25	70-130
Chloromethane	87	80	8	50	70-130
Bromomethane	86	85	1	50	70-130
Vinyl chloride	90	79	13	25	70-130
Chloroethane	93	87	7	25	70-130
1,1-Dichloroethene	100	94	6	25	70-130
trans-1,2-Dichloroethene	98	90	9	25	70-130
Trichloroethene	108	102	6	25	70-130
1,2-Dichlorobenzene	100	100	0	25	70-130
1,3-Dichlorobenzene	100	101	1	25	70-130
1,4-Dichlorobenzene	100	101	1	25	70-130
Methyl tert butyl ether	88	86	2	25	70-130
p/m-Xylene	106	99	7	25	70-130
o-Xylene	102	98	4	25	70-130
cis-1,2-Dichloroethene	99	94	5	25	70-130
Dibromomethane	105	103	2	25	70-130
1,2,3-Trichloropropane	98	99	1	25	70-130
Styrene	103	97	6	25	70-130
Dichlorodifluoromethane	97	88	10	50	70-130
Acetone	115	114	1	50	70-130
Carbon disulfide	70	63	11	25	70-130
2-Butanone	109	111	2	50	70-130
4-Methyl-2-pentanone	85	88	3	50	70-130
2-Hexanone	97	92	5	50	70-130
Bromochloromethane	98	105	7	25	70-130
Tetrahydrofuran	85	85	0	25	70-130
2,2-Dichloropropane	101	99	2	50	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0609324

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-02 (WG245792-1, WG245792-2)					
1,2-Dibromoethane	97	95	2	25	70-130
1,3-Dichloropropane	95	88	8	25	70-130
1,1,1,2-Tetrachloroethane	109	106	3	25	70-130
Bromobenzene	101	104	3	25	70-130
n-Butylbenzene	94	93	1	25	70-130
sec-Butylbenzene	95	96	1	25	70-130
tert-Butylbenzene	100	98	2	25	70-130
o-Chlorotoluene	93	93	0	25	70-130
p-Chlorotoluene	97	96	1	25	70-130
1,2-Dibromo-3-chloropropane	92	92	0	50	70-130
Hexachlorobutadiene	115	111	4	25	70-130
Isopropylbenzene	113	107	5	25	70-130
p-Isopropyltoluene	102	102	0	25	70-130
Naphthalene	81	86	6	25	70-130
n-Propylbenzene	96	94	2	25	70-130
1,2,3-Trichlorobenzene	95	99	4	25	70-130
1,2,4-Trichlorobenzene	89	93	4	25	70-130
1,3,5-Trimethylbenzene	100	100	0	25	70-130
1,2,4-Trimethylbenzene	99	100	1	25	70-130
Ethyl ether	85	83	2	25	70-130
Isopropyl Ether	97	92	5	25	70-130
Ethyl-Tert-Butyl-Ether	98	94	4	25	70-130
Tertiary-Amyl Methyl Ether	93	89	4	25	70-130
1,4-Dioxane	135	133	1	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	123	117	5		70-130
Toluene-d8	85	86	1		70-130
4-Bromofluorobenzene	82	85	4		70-130
Dibromofluoromethane	108	107	1		70-130
Volatile Petroleum Hydrocarbons for sample(s) 01-05 (WG245423-1, WG245423-2)					
C5-C8 Aliphatics	86	88	3	25	70-130
C9-C12 Aliphatics	92	100	8	25	70-130
C9-C10 Aromatics	93	99	6	25	70-130
Benzene	84	80	4	25	70-130
Toluene	94	100	5	25	70-130
Ethylbenzene	95	102	7	25	70-130
p/m-Xylene	97	105	8	25	70-130
o-Xylene	97	105	8	25	70-130
Methyl tert butyl ether	85	82	4	25	70-130
Naphthalene	101	105	4	25	70-130
Surrogate(s)					
2,5-Dibromotoluene-PID	101	106	5		70-130
2,5-Dibromotoluene-FID	102	110	8		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0609324

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Extractable Petroleum Hydrocarbons for sample(s) 01-05 (WG245208-2, WG245208-3)					
C9-C18 Aliphatics	46	48	4	25	40-140
C19-C36 Aliphatics	59	62	5	25	40-140
C11-C22 Aromatics	78	74	5	25	40-140
Naphthalene	62	55	12	25	40-140
2-Methylnaphthalene	63	55	14	25	40-140
Acenaphthylene	66	59	11	25	40-140
Acenaphthene	69	62	11	25	40-140
Fluorene	70	63	11	25	40-140
Phenanthrene	74	70	6	25	40-140
Anthracene	72	76	5	25	40-140
Fluoranthene	76	74	3	25	40-140
Pyrene	79	77	3	25	40-140
Benzo(a)anthracene	78	79	1	25	40-140
Chrysene	80	81	1	25	40-140
Benzo(b)fluoranthene	79	82	4	25	40-140
Benzo(k)fluoranthene	78	82	5	25	40-140
Benzo(a)pyrene	77	81	5	25	40-140
Indeno(1,2,3-cd)Pyrene	75	81	8	25	40-140
Dibenzo(a,h)anthracene	77	81	5	25	40-140
Benzo(ghi)perylene	79	84	6	25	40-140
Nonane (C9)	33	35	6	25	30-140
Decane (C10)	40	42	5	25	40-140
Dodecane (C12)	46	48	4	25	40-140
Tetradecane (C14)	50	52	4	25	40-140
Hexadecane (C16)	54	56	4	25	40-140
Octadecane (C18)	55	58	5	25	40-140
Nonadecane (C19)	57	59	3	25	40-140
Eicosane (C20)	58	61	5	25	40-140
Docosane (C22)	60	63	5	25	40-140
Tetracosane (C24)	60	63	5	25	40-140
Hexacosane (C26)	60	63	5	25	40-140
Octacosane (C28)	60	63	5	25	40-140
triacontane (C30)	60	64	6	25	40-140
Hexatriacontane (C36)	65	68	5	25	40-140
Surrogate(s)					
Chloro-Octadecane	45	51	13		40-140
o-Terphenyl	88	76	15		40-140
2-Fluorobiphenyl	72	64	12		40-140
2-Bromonaphthalene	71	63	12		40-140
% Naphthalene Breakthrough	0	0	NC		
% 2-Methylnaphthalene Breakthrough	0	0	NC		

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE FRACTIONATION CHECK

Laboratory Job Number: L0609324

Parameter	% Recovery	QC Criteria
------------------	-------------------	--------------------

Fractionation Check Standard Recoveries for Lot FISH52618

C9-C18 Aliphatics	62	40-140
C19-C36 Aliphatics	71	40-140
C11-C22 Aromatics	80	40-140
Naphthalene	74	40-140
2-Methylnaphthalene	70	40-140
Acenaphthylene	69	40-140
Acenaphthene	72	40-140
Fluorene	72	40-140
Phenanthrene	72	40-140
Anthracene	77	40-140
Fluoranthene	75	40-140
Pyrene	75	40-140
Benzo(a)anthracene	74	40-140
Chrysene	88	40-140
Benzo(b)fluoranthene	72	40-140
Benzo(k)fluoranthene	74	40-140
Benzo(a)pyrene	73	40-140
Indeno(1,2,3-cd)Pyrene	72	40-140
Dibenzo(a,h)anthracene	73	40-140
Benzo(ghi)perylene	73	40-140
Nonane (C9)	57	30-140
Decane (C10)	62	40-140
Dodecane (C12)	65	40-140
Tetradecane (C14)	63	40-140
Hexadecane (C16)	64	40-140
Octadecane (C18)	64	40-140
Nonadecane (C19)	64	40-140
Eicosane (C20)	67	40-140
Docosane (C22)	71	40-140
Tetracosane (C24)	72	40-140
Hexacosane (C26)	72	40-140
Octacosane (C28)	73	40-140
Triacontane (C30)	73	40-140
Hexatriacontane (C36)	76	40-140
Surrogate(s)		
Chloro-Octadecane	57	40-140
o-Terphenyl	78	40-140
2-Fluorobiphenyl	72	40-140
2-Bromonaphthalene	72	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0609324

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 02,05 (WG245234-1)						
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Antimony, Dissolved	ND	mg/l	0.050	60 6010B	0705 20:00 0710 13:09 CF	
Arsenic, Dissolved	ND	mg/l	0.005	60 6010B	0705 20:00 0710 13:09 CF	
Beryllium, Dissolved	ND	mg/l	0.005	60 6010B	0705 20:00 0710 13:09 CF	
Cadmium, Dissolved	ND	mg/l	0.004	60 6010B	0705 20:00 0710 13:09 CF	
Chromium, Dissolved	ND	mg/l	0.01	60 6010B	0705 20:00 0710 13:09 CF	
Copper, Dissolved	ND	mg/l	0.01	60 6010B	0705 20:00 0710 13:09 CF	
Lead, Dissolved	ND	mg/l	0.010	60 6010B	0705 20:00 0710 13:09 CF	
Nickel, Dissolved	ND	mg/l	0.025	60 6010B	0705 20:00 0710 13:09 CF	
Selenium, Dissolved	ND	mg/l	0.010	60 6010B	0705 20:00 0710 13:09 CF	
Silver, Dissolved	ND	mg/l	0.007	60 6010B	0705 20:00 0710 13:09 CF	
Thallium, Dissolved	ND	mg/l	0.005	60 6010B	0705 20:00 0710 13:09 CF	
Zinc, Dissolved	ND	mg/l	0.05	60 6010B	0705 20:00 0710 13:09 CF	
Blank Analysis for sample(s) 02,05 (WG245524-1)						
Dissolved Metals by MCP 6000/7000 series						
Mercury, Dissolved	ND	mg/l	0.0002	64 7470A	0707 18:00 0710 11:26 DM	
Blank Analysis for sample(s) 03-05 (WG245302-15)						
Volatile Organics by MCP 8260B				60 8260B	0711 09:20 BT	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0609324

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 03-05 (WG245302-15)						
Volatile Organics by MCP 8260B cont'd				60 8260B	0711 09:20 BT	
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
Tetrahydrofuran	ND	ug/l	10.			
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	0.60			
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	ND	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
Ethyl ether	ND	ug/l	2.5			
Isopropyl Ether	ND	ug/l	2.0			
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0			
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0			
1,4-Dioxane	ND	ug/l	250			

**ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0609324

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 03-05 (WG245302-15)						
Volatile Organics by MCP 8260B cont'd				60 8260B	0711 09:20 BT	
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	126	%	70-130			
Toluene-d8	87.0	%	70-130			
4-Bromofluorobenzene	97.0	%	70-130			
Dibromofluoromethane	112	%	70-130			
Blank Analysis for sample(s) 01-02 (WG245792-3)						
Volatile Organics by MCP 8260B				60 8260B	0710 16:23 BT	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0609324

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 01-02 (WG245792-3)						
Volatile Organics by MCP 8260B cont'd						
				60 8260B	0710 16:23 BT	
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
Tetrahydrofuran	ND	ug/l	10.			
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	0.60			
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	ND	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
Ethyl ether	ND	ug/l	2.5			
Isopropyl Ether	ND	ug/l	2.0			
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0			
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0			
1,4-Dioxane	ND	ug/l	250			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	119	%	70-130			
Toluene-d8	85.0	%	70-130			
4-Bromofluorobenzene	97.0	%	70-130			
Dibromofluoromethane	105	%	70-130			
Blank Analysis for sample(s) 01-05 (WG245423-3)						
Volatile Petroleum Hydrocarbons						
				59 VPH-04-1.1	0706 08:53 TT	
C5-C8 Aliphatics, Unadjusted	ND	ug/l	50.0			
C9-C12 Aliphatics, Unadjusted	ND	ug/l	50.0			
C9-C10 Aromatics	ND	ug/l	50.0			
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0609324

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 01-05 (WG245423-3)						
Volatile Petroleum Hydrocarbons cont'd				59 VPH-04-1.1	0706 08:53	TT
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0			
Surrogate(s)	Recovery		QC Criteria			
2,5-Dibromotoluene-PID	101	%	70-130			
2,5-Dibromotoluene-FID	101	%	70-130			
Blank Analysis for sample(s) 01-05 (WG245208-1)						
Extractable Petroleum Hydrocarbons				61 EPH-04-1	0705 16:00	0707 14:54 BN
C9-C18 Aliphatics	ND	ug/l	100			
C19-C36 Aliphatics	ND	ug/l	100			
C11-C22 Aromatics	ND	ug/l	100			
C11-C22 Aromatics, Adjusted	ND	ug/l	100			
Naphthalene	ND	ug/l	10.0			
2-Methylnaphthalene	ND	ug/l	10.0			
Acenaphthylene	ND	ug/l	10.0			
Acenaphthene	ND	ug/l	10.0			
Fluorene	ND	ug/l	10.0			
Phenanthrene	ND	ug/l	10.0			
Anthracene	ND	ug/l	10.0			
Fluoranthene	ND	ug/l	10.0			
Pyrene	ND	ug/l	10.0			
Benzo(a)anthracene	ND	ug/l	10.0			
Chrysene	ND	ug/l	10.0			
Benzo(b)fluoranthene	ND	ug/l	10.0			
Benzo(k)fluoranthene	ND	ug/l	10.0			
Benzo(a)pyrene	ND	ug/l	10.0			
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0			
Dibenzo(a,h)anthracene	ND	ug/l	10.0			
Benzo(ghi)perylene	ND	ug/l	10.0			
Surrogate(s)	Recovery		QC Criteria			
Chloro-Octadecane	59.0	%	40-140			
o-Terphenyl	72.0	%	40-140			
2-Fluorobiphenyl	78.0	%	40-140			
2-Bromonaphthalene	77.0	%	40-140			

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

59. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
60. Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.
61. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.
64. Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). August 2004.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

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

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

**ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION**

Laboratory Job Number: L0609324

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0609324-01A	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	MCP-8260-04
L0609324-01B	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	MCP-8260-04
L0609324-01C	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	VPH-04
L0609324-01D	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	VPH-04
L0609324-01E	Amber 1000ml HCl preserved	B	<2	1.4 C	Y	Absent	EPH-DELUX-04
L0609324-01F	Amber 1000ml HCl preserved	B	<2	1.4 C	Y	Absent	EPH-DELUX-04
L0609324-02A	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	MCP-8260-04
L0609324-02B	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	MCP-8260-04
L0609324-02C	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	VPH-04
L0609324-02D	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	VPH-04
L0609324-02E	Amber 1000ml HCl preserved	B	<2	1.4 C	Y	Absent	EPH-DELUX-04
L0609324-02F	Amber 1000ml HCl preserved	B	<2	1.4 C	Y	Absent	EPH-DELUX-04
L0609324-02M	Plastic 1000ml unpreserved	A	=7	2.1 C	Y	Absent	PREPS
L0609324-02N	Plastic 250ml HNO3 preserved spl	A	<2	2.1 C	Y	Absent	MCP-7470S, MCP-AG-6010S, MCP-AS-6010S, MCP-BE-6010S, MCP-CD-6010S, MCP-CR-6010S, MCP-CU-6010S, MCP-NI-6010S, MCP-PB-6010S, MCP-SB-6010S, MCP-SE-6010S, MCP-TL-6010S, MCP-ZN-6010S
L0609324-03A	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	MCP-8260-04
L0609324-03B	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	MCP-8260-04
L0609324-03C	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	VPH-04
L0609324-03D	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	VPH-04
L0609324-03E	Amber 1000ml HCl preserved	B	<2	1.4 C	Y	Absent	EPH-DELUX-04
L0609324-03F	Amber 1000ml HCl preserved	B	<2	1.4 C	Y	Absent	EPH-DELUX-04
L0609324-04A	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	MCP-8260-04
L0609324-04B	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	MCP-8260-04
L0609324-04C	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	VPH-04
L0609324-04D	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	VPH-04
L0609324-04E	Amber 1000ml HCl preserved	A	<2	2.1 C	Y	Absent	EPH-DELUX-04
L0609324-04F	Amber 1000ml HCl preserved	A	<2	2.1 C	Y	Absent	EPH-DELUX-04
L0609324-05A	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	MCP-8260-04
L0609324-05B	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	MCP-8260-04
L0609324-05C	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	VPH-04
L0609324-05D	Vial HCl preserved	B	N/A	1.4 C	Y	Absent	VPH-04
L0609324-05E	Amber 1000ml HCl preserved	A	<2	2.1 C	Y	Absent	EPH-DELUX-04
L0609324-05F	Amber 1000ml HCl preserved	A	<2	2.1 C	Y	Absent	EPH-DELUX-04

ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0609324

Continued

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0609324-05M	Plastic 1000ml unpreserved	A	=7	2.1 C	Y	Absent	PREPS
L0609324-05N	Plastic 250ml HN03 preserved spl	A	<2	2.1 C	Y	Absent	MCP-7470S, MCP-AG-6010S, MCP-AS-6010S, MCP-BE-6010S, MCP-CD-6010S, MCP-CR-6010S, MCP-CU-6010S, MCP-NI-6010S, MCP-PB-6010S, MCP-SB-6010S, MCP-SE-6010S, MCP-TL-6010S, MCP-ZN-6010S

Container Comments

Container ID	Comments
--------------	----------

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com
MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: McPhail Associates	Laboratory Job Number: L0717559
Address: 2269 Massachusetts Avenue	Date Received: 27-NOV-2007
Cambridge, MA 02140	Date Reported: 28-NOV-2007
Attn: Mr. Ambrose Donovan	Delivery Method: Alpha
Project Number: 4532	Site: 1341 BOYLSTON ST.

The following questions pertain only to MCP Analytical Methods

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

- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. **VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? YES

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

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? YES
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? NO

Any answers of NO to the above questions are addressed in the 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 report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____

Technical Representative

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0717559

Date Reported: 28-NOV-2007

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0717559-01	B-12 (OW)	1341 BOYLSTON ST

**ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT**

Laboratory Job Number: L0717559

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives:

VPH

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0717559-01

B-12 (OW)

Sample Matrix: WATER

Date Collected: 27-NOV-2007 12:30

Date Received : 27-NOV-2007

Date Reported : 28-NOV-2007

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
-----------	--------	-------	-----	------------	--------------	--------------	----

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		1128 11:23	TT
---------------------------------	--	--	--	---------------	--	------------	----

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous preservative:

Laboratory Provided Preserved Container

Sample temperature upon receipt:

Received on Ice

C5-C8 Aliphatics, Unadjusted	660	ug/l	50.0
C9-C12 Aliphatics, Unadjusted	497	ug/l	50.0
C9-C10 Aromatics	295	ug/l	50.0
C5-C8 Aliphatics, Adjusted	639	ug/l	50.0
C9-C12 Aliphatics, Adjusted	193	ug/l	50.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	101 %	70-130
2,5-Dibromotoluene-FID	92.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0717559

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Petroleum Hydrocarbons for sample(s) 01 (WG303458-1, WG303458-2)					
C5-C8 Aliphatics	100	117	16	25	70-130
C9-C12 Aliphatics	101	115	13	25	70-130
C9-C10 Aromatics	108	120	11	25	70-130
Benzene	97	116	18	25	70-130
Toluene	108	119	10	25	70-130
Ethylbenzene	112	121	8	25	70-130
p/m-Xylene	114	120	5	25	70-130
o-Xylene	113	120	6	25	70-130
Methyl tert butyl ether	99	114	14	25	70-130
Naphthalene	115	126	9	25	70-130
1,2,4-Trimethylbenzene	110	122	10	25	70-130
Pentane	94	108	14	25	70-130
2-Methylpentane	88	109	21	25	70-130
2,2,4-Trimethylpentane	99	113	13	25	70-130
n-Nonane	104	119	13	25	30-130
n-Decane	104	117	12	25	70-130
n-Butylcyclohexane	97	112	14	25	70-130
Surrogate(s)					
2,5-Dibromotoluene-PID	112	119	6		70-130
2,5-Dibromotoluene-FID	107	115	7		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0717559

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG303458-3)							
Volatile Petroleum Hydrocarbons				59 VPH-04-1.1	1128 08:33		TT
C5-C8 Aliphatics, Unadjusted	ND	ug/l	50.0				
C9-C12 Aliphatics, Unadjusted	ND	ug/l	50.0				
C9-C10 Aromatics	ND	ug/l	50.0				
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0				
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0				
Surrogate(s)	Recovery		QC Criteria				
2,5-Dibromotoluene-PID	107	%	70-130				
2,5-Dibromotoluene-FID	103	%	70-130				

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

59. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH).
Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004,
Revision 1.1.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

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

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

ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0717559

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0717559-01A	Vial HCl preserved	A	N/A	2.2 C	Y	Absent	VPH-04
L0717559-01B	Vial HCl preserved	A	N/A	2.2 C	Y	Absent	VPH-04
L0717559-01C	Vial HCl preserved	A	N/A	2.2 C	Y	Absent	VPH-04
L0717559-01D	Vial HCl preserved	A	N/A	2.2 C	Y	Absent	VPH-04

Container Comments

Container ID	Comments
--------------	----------



APPENDIX D

AREAS OF CRITICAL CONCERN, ENDANGERED AND THREATENED SPECIES

The Boylston West subject site located at 80-90 Van Ness Street and 1325 and 1345 Boylston Street is located south of the Charles River, in the Back Bay Fenway area of Boston, Massachusetts. Based on a review of Massachusetts Geographic Information Systems DEP Priority Resources' Map, there are no drinking water supplies, no Areas of Critical Environmental Concern, no Sole Source Aquifers, no fish habitats, and no habitats of Species of Special Concern or Threatened or Endangered Species at or within 500-feet of the subject site. Protected Open Space is located approximately 1,000 feet to the southwest of the subject property, along the Muddy River. A 100-year flood zone is also indicated along the Muddy River to the southwest of the property.

There are no surface water bodies located within the site boundaries. The Muddy River is located approximately 1,000 feet to the southwest, south and southeast of the subject site. Further, the Charles River is located approximately 2,500 feet to the north of the subject site.

A review of the most recent federal listing of threatened and endangered species published by the U.S. Fish and Wildlife Service identified no threatened and/or endangered species or critical habitats at or in the vicinity of the discharge location and/or discharge outfall. In addition, a review of the Massachusetts Division of Fisheries and Wildlife on-line database identified no threatened or endangered species at the point of discharge and/or the discharge outfall.

Based upon the above, the site is considered criterion A pursuant to Appendix VII of the RGP.

MassDEP - Bureau of Waste Site Cleanup

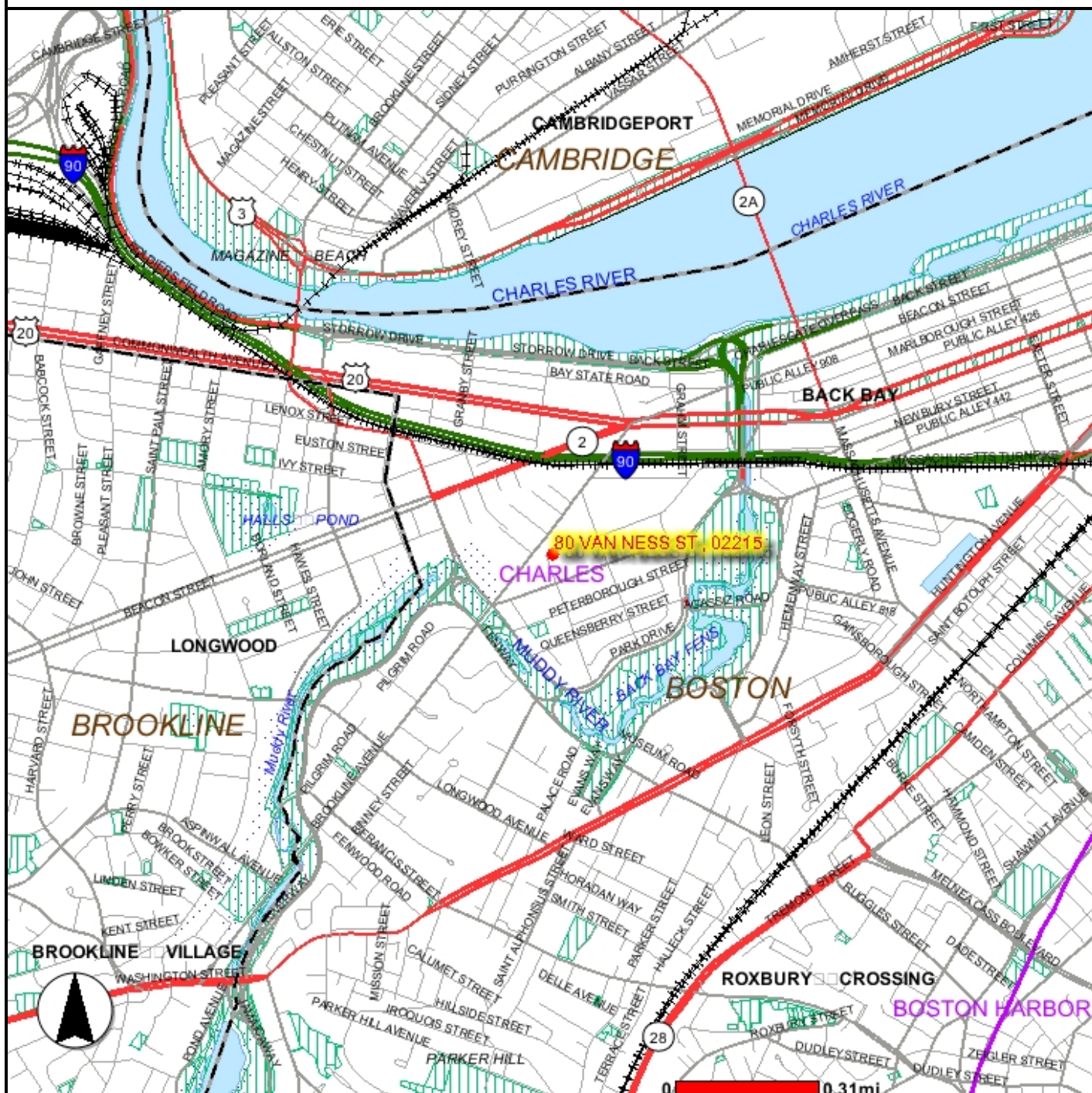
MCP Numerical Ranking System Map: 500 feet & 0.5 Mile Radii

Site Name:Boylston West
Boston, MA**RTN:**NAD83 MA Coordinates:
232925mE, 899460mN

April 11, 2012



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



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, Sub; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source.....

Non Potential Drinking Water Source Area: Medium, High (Yield)...

PWS Protection Areas: Zone II, IWPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

FEMA 100yr Floodplain; Protected Open Space; ACEC

NHESP: Est Rare Wetland Habitat, Certified Vernal Pool

DEP Permitted Solid Waste Landfill.....

MASSACHUSETTS AREAS OF CRITICAL ENVIRONMENTAL CONCERN

June 2009

Total Approximate Acreage: 268,000 acres

Approximate acreage and designation date follow ACEC names below.

Bourne Back River

(1,850 acres, 1989) Bourne

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

Cedar Swamp

(1,650 acres, 1975) Hopkinton and Westborough

Central Nashua River Valley

(12,900 acres, 1996) Bolton, Harvard, Lancaster, and Leominster

Cranberry Brook Watershed

(1,050 acres, 1983) Braintree and Holbrook

Ellisville Harbor

(600 acres, 1980) Plymouth

Fowl Meadow and Ponkapoag Bog

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

Golden Hills

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

Great Marsh (originally designated as Parker River/Essex Bay)

(25,500 acres, 1979) Essex, Gloucester, Ipswich, Newbury, and Rowley

Herring River Watershed

(4,450 acres, 1991) Bourne and Plymouth

Hinsdale Flats Watershed

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

Hockomock Swamp

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

Inner Cape Cod Bay

(2,600 acres, 1985) Brewster, Eastham, and Orleans

Kampoosa Bog Drainage Basin

(1,350 acres, 1995) Lee and Stockbridge

Karner Brook Watershed

(7,000 acres, 1992) Egremont and Mount Washington

Miscoe, Warren, and Whitehall Watersheds

(8,700 acres, 2000) Grafton, Hopkinton, and Upton

Neponset River Estuary

(1,300 acres, 1995) Boston, Milton, and Quincy

Petapawag

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

Pleasant Bay

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

Pocasset River

(160 acres, 1980) Bourne

Rumney Marshes

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

Sandy Neck Barrier Beach System

(9,130 acres, 1978) Barnstable and Sandwich

Schenob Brook Drainage Basin

(13,750 acres, 1990) Mount Washington and Sheffield

Squannassit

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

Three Mile River Watershed

(14,280 acres, 2008) Dighton, Norton, Taunton

Upper Housatonic River

(12,280 acres, 2009) Lee, Lenox, Pittsfield, Washington

Waquoit Bay

(2,580 acres, 1979) Falmouth and Mashpee

Weir River

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

Wellfleet Harbor

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

Weymouth Back River

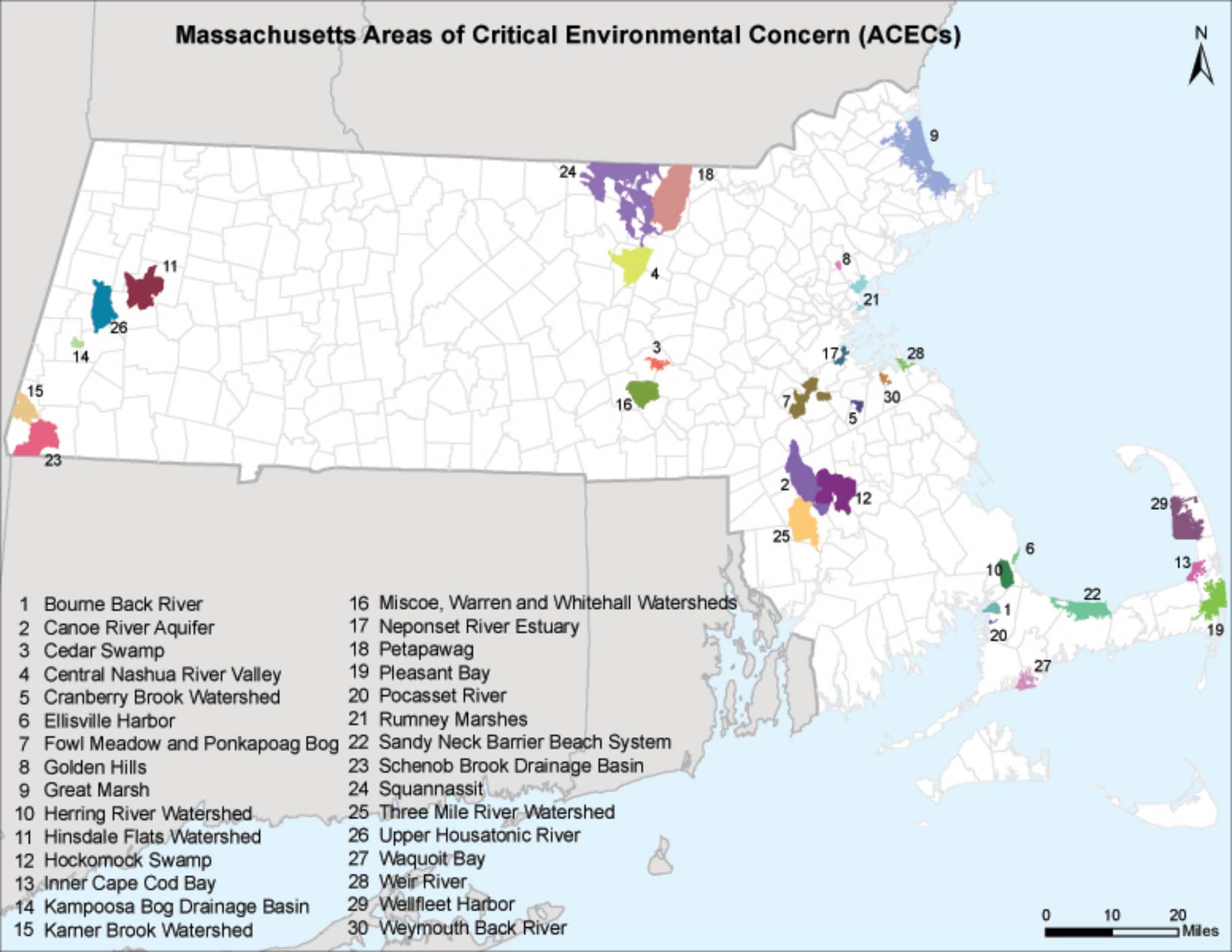
(800 acres, 1982) Hingham and Weymouth

Towns with ACECs within their Boundaries

June 2009

TOWN	ACEC	TOWN	ACEC
Ashby	Squannassit	Mt. Washington	Karner Brook Watershed
Ayer	Petapawag		Schenob Brook
	Squannassit	Newbury	Great Marsh
Barnstable	Sandy Neck Barrier Beach System	Norton	Hockomock Swamp
Bolton	Central Nashua River Valley		Canoe River Aquifer
Boston	Rumney Marshes		Three Mile River Watershed
	Fowl Meadow and Ponkapoag Bog	Norwood	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary	Orleans	Inner Cape Cod Bay
Bourne	Pocasset River		Pleasant Bay
	Bourne Back River	Pepperell	Petapawag
	Herring River Watershed		Squannassit
Braintree	Cranberry Brook Watershed	Peru	Hinsdale Flats Watershed
Brewster	Pleasant Bay	Pittsfield	Upper Housatonic River
	Inner Cape Cod Bay	Plymouth	Herring River Watershed
Bridgewater	Hockomock Swamp		Ellisville Harbor
Canton	Fowl Meadow and Ponkapoag Bog	Quincy	Neponset River Estuary
Chatham	Pleasant Bay	Randolph	Fowl Meadow and Ponkapoag Bog
Cohasset	Weir River	Raynham	Hockomock Swamp
Dalton	Hinsdale Flats Watershed	Revere	Rumney Marshes
Dedham	Fowl Meadow and Ponkapoag Bog	Rowley	Great Marsh
Dighton	Three Mile River Watershed	Sandwich	Sandy Neck Barrier Beach System
Dunstable	Petapawag	Saugus	Rumney Marshes
Eastham	Inner Cape Cod Bay		Golden Hills
	Wellfleet Harbor	Sharon	Canoe River Aquifer
Easton	Canoe River Aquifer		Fowl Meadow and Ponkapoag Bog
	Hockomock Swamp	Sheffield	Schenob Brook
Egremont	Karner Brook Watershed	Shirley	Squannassit
Essex	Great Marsh	Stockbridge	Kampoosa Bog Drainage Basin
Falmouth	Waquoit Bay	Taunton	Hockomock Swamp
Foxborough	Canoe River Aquifer		Canoe River Aquifer
Gloucester	Great Marsh		Three Mile River Watershed
Grafton	Miscoe-Warren-Whitehall Watersheds	Truro	Wellfleet Harbor
		Townsend	Squannassit
Groton	Petapawag	Tyngsborough	Petapawag
	Squannassit	Upton	Miscoe-Warren-Whitehall Watersheds
Harvard	Central Nashua River Valley		
	Squannassit	Wakefield	Golden Hills
Harwich	Pleasant Bay	Washington	Hinsdale Flats Watershed
Hingham	Weir River		Upper Housatonic River
	Weymouth Back River	Wellfleet	Wellfleet Harbor
Hinsdale	Hinsdale Flats Watershed	W Bridgewater	Hockomock Swamp
Holbrook	Cranberry Brook Watershed	Westborough	Cedar Swamp
Hopkinton	Miscoe-Warren-Whitehall Watersheds	Westwood	Fowl Meadow and Ponkapoag Bog
		Weymouth	Weymouth Back River
	Cedar Swamp	Winthrop	Rumney Marshes
Hull	Weir River		
Ipswich	Great Marsh		
Lancaster	Central Nashua River Valley		
	Squannassit		
Lee	Kampoosa Bog Drainage Basin		
	Upper Housatonic River		
Lenox	Upper Housatonic River		
Leominster	Central Nashua River Valley		
Lunenburg	Squannassit		
Lynn	Rumney Marshes		
Mansfield	Canoe River Aquifer		
Mashpee	Waquoit Bay		
Melrose	Golden Hills		
Milton	Fowl Meadow and Ponkapoag Bog		
	Neponset River Estuary		

Massachusetts Areas of Critical Environmental Concern (ACECs)

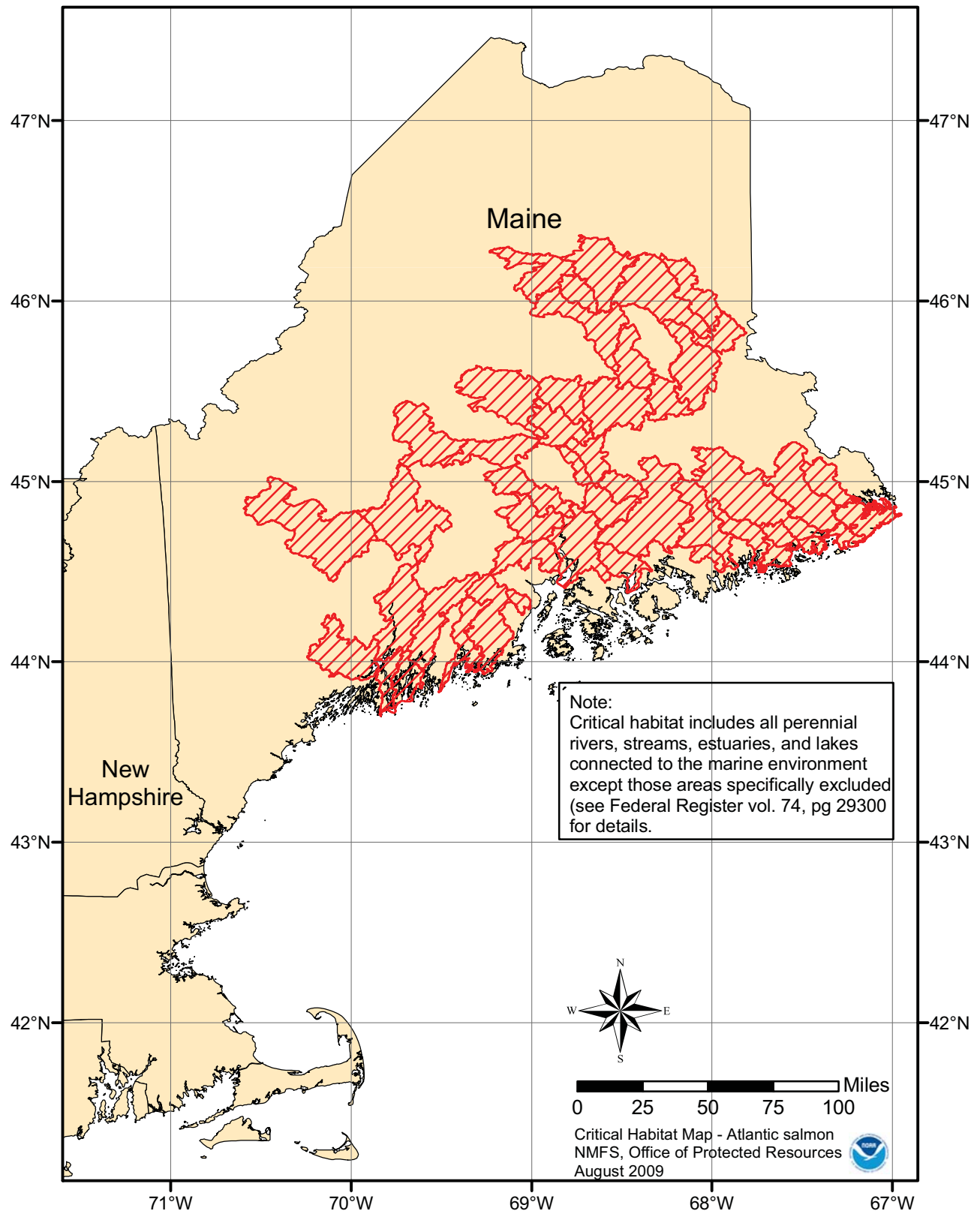


- 1 Bourne Back River
- 2 Canoe River Aquifer
- 3 Cedar Swamp
- 4 Central Nashua River Valley
- 5 Cranberry Brook Watershed
- 6 Ellisville Harbor
- 7 Fowl Meadow and Ponkapoag Bog
- 8 Golden Hills
- 9 Great Marsh
- 10 Herring River Watershed
- 11 Hinsdale Flats Watershed
- 12 Hockomock Swamp
- 13 Inner Cape Cod Bay
- 14 Kampoosa Bog Drainage Basin
- 15 Karter Brook Watershed

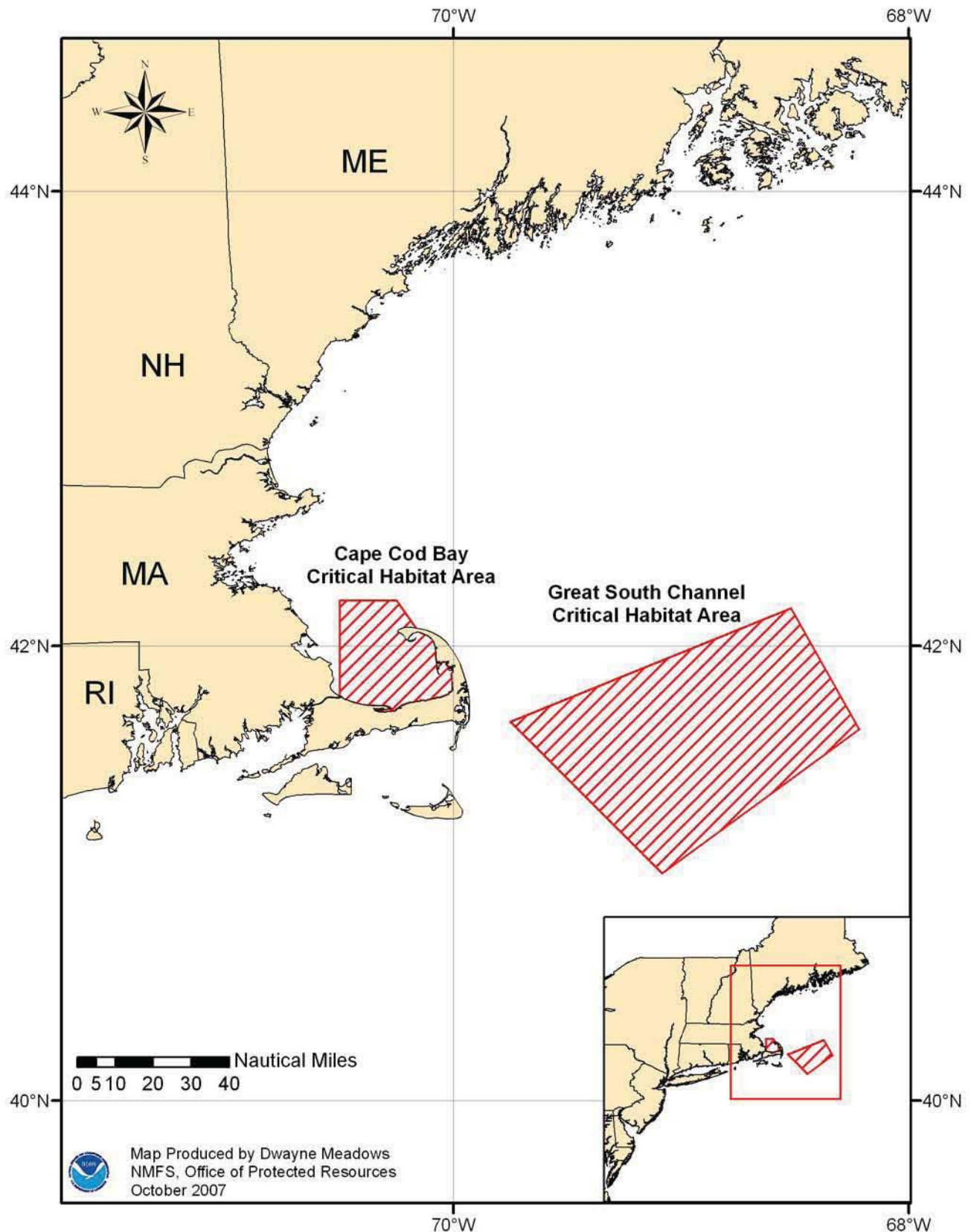
- 16 Miscoe, Warren and Whitehall Watersheds
- 17 Neponset River Estuary
- 18 Petapawag
- 19 Pleasant Bay
- 20 Pocasset River
- 21 Rumney Marshes
- 22 Sandy Neck Barrier Beach System
- 23 Schenob Brook Drainage Basin
- 24 Squannassit
- 25 Three Mile River Watershed
- 26 Upper Housatonic River
- 27 Waquoit Bay
- 28 Weir River
- 29 Wellfleet Harbor
- 30 Weymouth Back River

0 10 20 Miles

Atlantic Salmon Critical Habitat



Northern Right Whale Critical Habitat: Northeast Atlantic



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

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

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

7/31/2008



APPENDIX E

NATIONAL REGISTER OF HISTORIC PLACES

The National Register of Historic Places on-line database was reviewed for listings located within the immediate vicinity of the subject site in Boston, Massachusetts. A review of the most recent National Register of Historical Places for Suffolk County, Massachusetts did not identify records or addresses of Historic Places that exist in the immediate vicinity of the outfall location. The nearest listing of a National Historic Place to the subject site is the Sears Roebuck and Company Mail Order Store located approximately 500 feet to the west-southwest of the subject site. We do not anticipate that dewatering activities at the subject site will affect the Sears Roebuck and Company Mail Order Store National Historic Place.

Based upon the above, the site considered criterion 2 pursuant to Appendix IV of the RGP.



APPENDIX F

Best Management Practice Plan

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

Water Treatment and Management

Construction dewatering effluent is anticipated to be pumped from localized sumps and trenches within the excavation and directly into a settling tank. The effluent will then flow through any necessary treatment systems and discharge through hoses into City of Boston storm water drain lines which discharge into the Charles River. Dewatering effluent treatment may consist of bag filters, GAC, and/or ion exchange, as required.

Discharge Monitoring and Compliance

Regular sampling and testing will be conducted at the influent to the system and the treated effluent as required by the RGP. This includes analytical testing required within days 1 and 3 of initial discharge and the monthly testing to be conducted through the end of the scheduled discharge.

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

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

Monthly monitoring reports will be compiled and maintained at the site



System Maintenance

Scheduled regular maintenance of the treatment system will be conducted to verify proper operation. Regular maintenance will include checking the condition of the treatment system equipment such as the settling tanks, bag filters, GAC unit filters, hoses, pumps, and flow meters. Equipment will be monitored daily for potential issues and for unscheduled maintenance requirements.

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

Miscellaneous Items

It is anticipated that discharge into the City of Boston storm water drain line will minimize potential runoff to or from the site. Site security for the treatment system will be covered within the overall site security plan.

Management of Treatment System Materials

Dewatering effluent will be pumped directly to the treatment system from the excavation with use of hoses and sumps to minimize handling. The Contractor will establish staging areas for equipment or materials storage that may be possible sources of pollution that will be located away from any dewatering activities, to the extent practicable.

Sediment from the tank used in the treatment system will be characterized and removed from the site to an appropriate receiving facility, in accordance with applicable laws and regulations. If used, the GAC and/or ion exchange resin may be recycled and/or removed from the site to an appropriate receiving facility. Bag filters will be disposed of as necessary.