



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

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

CERTIFIED MAIL

MAR 31 2011

Harold H. Penney, Forman
Atlantic Construction
27 Water Street, Suite 109
Wakefield, MA 01880

Re: Authorization to discharge under the Remediation General Permit (RGP) –
MAG910000. Mattapan Community Health Center site located at 1563-1585 Blue Hill
Avenue, Mattapan, MA 02126, Suffolk County; Authorization # MAG910475.

Dear Mr. Penney:

Based on the review of a Notice of Intent (NOI) submitted on behalf of Dr. Azzie Young Owner of the Mattapan Community Health Center Realty, by the firm GZA Geo Environmental, 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 for which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the checklist does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of this permit, including influent and effluent monitoring, narrative water quality standards, record keeping, and reporting requirements, found in Parts I and II, and Appendices I – VIII of the RGP. See EPA's website for the complete RGP and other information at:
<http://www.epa.gov/region1/npdes/mass.html#dgp>.

Please note the enclosed checklist includes parameters that exceeded Appendix III limits, among these is benzene even though you have marked this pollutant as "believed absent". The checklist also includes other parameters for which your laboratory reports indicated there was insufficient sensitivity to detect these parameters at the minimum levels established in Appendix VI of the RGP.

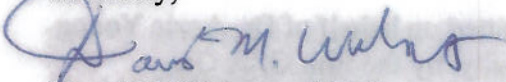
Also, please note that metals are dilution dependent pollutants subject to limitations based on a dilution factor range (DFR). Because the discharge will enter into an area of limited (1.25) dilution, EPA determined that the DFR for each metal parameter is in the one to five (1-5) range. (See the RGP Appendix IV for Massachusetts facilities) Therefore, the limits for arsenic of 10ug/L, trivalent chromium of 48.8 ug/L, nickel of 29ug/L, selenium of 5ug/L, silver of 1.2ug/L, zinc of 66.6ug/L and iron of 1,250ug/L, are required to achieve permit compliance at your site.

Finally, please note the list of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. 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 in October 2011. If for any reason the discharge terminates sooner you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

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

Sincerely,



David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP
Jason K. Mello, GZA Geo Environmental Inc.

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

NPDES Authorization Number:		MAG910475 - New
Date Authorization Issued:	March, 2011	
Facility/Site Name:	Mattapan Community Health	
Facility/Site Address:	1563-1585 Blue Hill Avenue, Mattapan, MA 02126, Suffolk County	
	Email address of owner: young@matchc.org	
Legal Name of Operator:	Atlantic Construction, 27 Water Street, Suite 109, Wakefield, MA 01880	
Operator contact name, title, and Address:	Harold H. Penney, Forman, Atlantic Construction 27 Water Street, Suite 109, Wakefield, MA 01880	
	Email : hpenney@atlantic	
Estimated Date of Completion:	October, 2011	
Category and Sub-Category:	Class III. Contaminated Construction Dewatering. Sub-category B. Known Contaminated Sites.	
Receiving Water:	City Drainage to Neponset 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 5ug/L
✓	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
✓	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ML 2ug/L
✓	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ML 2ug/L
✓	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ML 2ug/L
✓	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) ⁴	100 ug/L/ Me#8260C/ ML 2ug/L

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l/Me#8260C/ML 10ug/L
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
✓	14. Naphthalene ⁵	20 ug/L /Me#8260C/ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ ML 5ug/L
	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
✓	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML 5ug/L, Me#604 &625/ML 10ug/L
✓	33. Total Phthalates (Phthalate esters) ⁶	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L & Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L & Me#625/ML 5ug/L
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
	a. Benzo(a) Anthracene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L

	<u>Parameter</u>	<u>Effluent Limit/Method# /ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	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/ML 5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
	h. Acenaphthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	i. Acenaphthylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene ⁵	20 ug/L / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) ^{8, 9}	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

	<u>Metal parameter</u>	<u>Total Recoverable Metal Limit @ H ¹⁰ = 50 mg/l CaCO3 for discharges in Massachusetts (ug/l)</u> 11/12		<u>Minimum level=ML</u>
		<u>Freshwater</u>	<u>Saltwater</u>	
	39. Antimony	5.6/ML 10		
✓	40. Arsenic **	10/ML 20		

	Metal parameter	Total Recoverable Metal Limit @ H¹⁰ = 50 mg/l CaCO₃ for discharges in Massachusetts (ug/l) 11/12		Minimum level=ML	
		Freshwater	Saltwater		
	41. Cadmium **	0.2/ML10			
✓	42. Chromium III (trivalent) **	48.8/ML15			
	43. Chromium VI (hexavalent) **	11.4/ML10			
	44. Copper **	5.2/ML15			
	45. Lead **	1.3/ML20			
	46. Mercury **	0.9/ML0.2			
✓	47. Nickel **	29/ML20			
✓	48. Selenium **	5/ML20			
✓	49. Silver	1.2/ML10			
✓	50. Zinc **	66.6/ML15			
✓	51. Iron	1,250/ML 20			

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

Footnotes:

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

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

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

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

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

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

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

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

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

⁹ Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).

¹⁰ Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.

¹¹ For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using DF x 1,000ug/L (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit = 1,000 x 2 = 2,000 ug/L., etc. not to exceed the DF=5.

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

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

¹⁴ Temperature sampling per Method 170.1

March 7, 2011
File No. 33493.08



One Edgewater Drive
Norwood
Massachusetts
02062
781-278-3700
FAX 781-278-5701
<http://www.gza.com>

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

Re: Submittal of Notice of Intent (NOI)
Construction Excavation Dewatering
1563 – 1585 Blue Hill Avenue
Mattapan, Massachusetts

Dear Mr. Alvarez:

GZA GeoEnvironmental, Inc. (GZA), on behalf of our client, Berry, a division of Suffolk Construction (Berry), is submitting the attached Notice of Intent (NOI) form (Attachment 1) for application of a National Pollution Discharge Elimination System (NPDES) Remedial General Permit (RGP) for proposed dewatering activities at 1563 – 1585 Bill Hill Avenue, Mattapan Massachusetts (the Site) (Attachments 2 and 3). This NOI is being submitted for performing construction-related excavation dewatering at the Site. The enclosed NOI form (Attachment 1) provides required information on the general Site conditions, proposed treatment system, discharge location and receiving water, and analytical results for testing performed on a groundwater sample collected from the Site.

BACKGROUND

The proposed construction project includes the redevelopment of several contiguous parcels in Mattapan, Massachusetts by demolishing existing Site structures and constructing a community health center. The construction project is likely to impact more than 1-acre of land and is therefore subject to the requirements of the National Pollutant Discharge Elimination System (NPDES) program. Construction activities on the Site will include grading, excavation, and stockpiling. These activities are regulated under the Construction General Permit (CGP).

Construction activities will also include excavation dewatering of groundwater. Groundwater at the Site is contaminated with petroleum constituents (gasoline) as a result of historic releases. The laboratory test results (collected on November 5, 2010) are presented in Attachment 4. Groundwater dewatering activities and discharge to the municipal storm drain system require a Remedial General Permit (RGP) and a Boston Water and Sewer Commission (BWSC) Dewatering Discharge Permit. Discharge to the municipal storm system will also require a treatment system designed to mitigate discharges of separate phase product and/or elevated concentrations of dissolved petroleum



constituents, as well as other permit-specific parameters (Attachment 4). A proposed Process Flow Diagram of the treatment system is presented as Attachment 5. The permit will also require a monitoring program to demonstrate compliance with the discharge parameters. Groundwater will be discharged to the catch basin at the eastern edge of the property. The catch basin discharges to the Neponset River via BWSC storm drain outfall SDO285. Supplemental information including a Natural Heritage and Endangered Species Program (NHESP) map showing the site is not part of rare or endangered species habitat and correspondence from the United States Fish and Wildlife Service are provided in Attachments 6 and 7.

Please do not hesitate to contact the undersigned at (781) 278-3700, if you have any questions or require further information.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

A handwritten signature in blue ink, appearing to read 'J. Mello'.

Jason K. Mello
Engineer II

A handwritten signature in blue ink, appearing to read 'R. Michael Clark'.

R. Michael Clark
Consultant/Reviewer

A handwritten signature in blue ink, appearing to read 'Albert J. Ricciardelli'.

Albert J. Ricciardelli, P.E., LSP
Senior Principal

Attachments: Attachment 1: NOI Form
Attachment 2: Figure 1 – Site Locus Map
Attachment 3: Figure 2 – Site Plan
Attachment 4: Laboratory Analytical Results
Attachment 5: Figure 3 – Process Flow Diagram
Attachment 6: Natural Heritage and Endangered Species Program Map
Attachment 7: Fish and Wildlife Service Letter

cc: MassDEP – Northeastern Region

ATTACHMENT 1

NOI 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 : Mattapan Community Health Center		Facility/site mailing address:	
Location of facility/site :	Facility SIC code(s):	Street:	
longitude: 42.2699864° N	801104	1563-1585 Blue Hill Ave.	
latitude: -71.0939218° W			
b) Name of facility/site owner :		Town: Mattapan	
Email address of facility/site owner :		State:	Zip:
Dr. Young, Mattapan Health Center Realty (young@matchc.org)		MA	02126
Telephone no. of facility/site owner : 617-296-0061		County: Suffolk	
Fax no. of facility/site owner : 617-296-5408		Owner is (check one): 1. Federal ☐ 2. State/Tribal ☐	
Address of owner (if different from site):		3. Private ☒ 4. Other ☐ if so, describe:	
Street: 1425 Blue Hill Ave.			
Town: Mattapan	State: MA	Zip: 02126	County: Suffolk
c) Legal name of operator :		Operator telephone no: 781-451-3937	
Atlantic Construction		Operator fax no.: 781-451-3972	Operator email: hpenney@atlanticdemo.com
Operator contact name and title: Harold H. Penney, Foreman			
Address of operator (if different from owner):		Street: 27 Water Street Suite 109	
Town: Wakefield	State: MA	Zip: 01880	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: RTN 3-29063 2. permit or license # assigned: Tier II 3. state agency contact information: name, location, and telephone number: MADEP 205B Lowell Street Wilmington, MA 01887 Tel.: 978-694-3200	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. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left; padding: 5px;"><u>Activity Category</u></th> <th style="width: 60%; text-align: left; padding: 5px;"><u>Activity Sub-Category</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">I - Petroleum Related Site Remediation</td> <td style="padding: 5px;"> A. Gasoline Only Sites ☐ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ☐ C. Petroleum Sites with Additional Contamination ☐ </td> </tr> <tr> <td style="padding: 5px;">II - Non Petroleum Site Remediation</td> <td style="padding: 5px;"> A. Volatile Organic Compound (VOC) Only Sites ☐ B. VOC Sites with Additional Contamination ☐ C. Primarily Heavy Metal Sites ☐ </td> </tr> <tr> <td style="padding: 5px;">III - Contaminated Construction Dewatering</td> <td style="padding: 5px;"> A. General Urban Fill Sites ☐ B. Known Contaminated Sites ☒ </td> </tr> </tbody> </table>		<u>Activity Category</u>	<u>Activity Sub-Category</u>	I - Petroleum Related Site Remediation	A. Gasoline Only Sites ☐ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ☐ C. Petroleum Sites with Additional Contamination ☐	II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites ☐ B. VOC Sites with Additional Contamination ☐ C. Primarily Heavy Metal Sites ☐	III - Contaminated Construction Dewatering	A. General Urban Fill Sites ☐ B. Known Contaminated Sites ☒
<u>Activity Category</u>	<u>Activity Sub-Category</u>								
I - Petroleum Related Site Remediation	A. Gasoline Only Sites ☐ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ☐ C. Petroleum Sites with Additional Contamination ☐								
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites ☐ B. VOC Sites with Additional Contamination ☐ C. Primarily Heavy Metal Sites ☐								
III - Contaminated Construction Dewatering	A. General Urban Fill Sites ☐ B. Known Contaminated Sites ☒								

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites ☐ B. Well Development/Rehabilitation at Contaminated/Formely 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) ☐
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as necessary) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:	
Discharge from a temporary construction dewatering treatment system.	
b) Provide the following information about each discharge:	
1) Number of discharge points: 1	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow 13.4 Is maximum flow a design value ? Y ☐ N ☒ Average flow (include units) 6.7 Is average flow a design value or estimate? Estimate
3) Latitude and longitude of each discharge within 100 feet:	
pt.1: lat. 42.2699864° N long. -71.0939218° W	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 03/2011 end 10/2011	
d) Please attach a line drawing or flow schematic showing water flow through the facility including:	
1. sources of intake water. 2. contributing flow from the operation. 3. treatment units. and 4. discharge points and receiving waters(s). SEE PROCESS FLOW DIAGRAM (FIGURE 3).	

3. Contaminant information.

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

<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)		☒	☐	8	Grab	2540D	5000	<5000		<5000	
2. Total Residual Chlorine (TRC)		☒	☐	8	Grab	45000LL-D	200	<20		<20	
3. Total Petroleum Hydrocarbons (TPH)		☒	☐	8	Grab	1664	5000	<5000		<5000	
4. Cyanide (CN)	57125	☐	☒	8	Grab	45006N-LE	5	7.7		7.7	
5. Benzene (B)	71432	☒	☐	8	Grab	8260	2	1900		1900	
6. Toluene (T)	108883	☐	☒	8	Grab	8260	2	4100		4100	
7. Ethylbenzene (E)	100414	☐	☒	8	Grab	8260	2	680		680	
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☐	☒	8	Grab	8260	4	2850		2850	
9. Total BTEX ²	n/a	☐	☒	8	Grab	8260	2	2650		2650	
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) ³	106934	☒	☐	8	Grab	8260	10	<10		<10	
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	8	Grab	8260	10	<5		<5	
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☐	☐	8	Grab	8260	10	<630		<630	

* 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	☐	☐	7	Grab	8260	10	<50		<50	
14. Naphthalene	91203	☐	☒	8	Grab	8260	2	59		59	
15. Carbon Tetrachloride	56235	☒	☐	8	Grab	8260	5	<5		<5	
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	8	Grab	8260	5	<5		<5	
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	8	Grab	8260	5	<5		<5	
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	8	Grab	8260	5	<5		<5	
18a. Total dichlorobenzene		☒	☐	8	Grab	8260	5	<5		<5	
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	8	Grab	8260	5	<5		<5	
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	8	Grab	8260	5	<5		<5	
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	8	Grab	8260	5	<5		<5	
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	8	Grab	8260	5	<5		<5	
23. Methylene Chloride	75092	☒	☐	8	Grab	8260	5	<5		<5	
24. Tetrachloroethene (PCE)	127184	☒	☐	8	Grab	8260	5	<5		<5	
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	8	Grab	8260	5	<5		<5	
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	8	Grab	8260	5	<5		<5	
27. Trichloroethene (TCE)	79016	☒	☐	8	Grab	8260	5	<5		<5	

<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	☒	☐	8	Grab	8260	5	<5		<5	
29. Acetone	67641	☒	☐	8	Grab	8260	5	<50		<50	
30. 1,4 Dioxane	123911	☒	☐	1	Grab	8270	5				
31. Total Phenols	108952	☒	☐	1	Grab	8270	5	<5		<5	
32. Pentachlorophenol (PCP)	87865	☒	☐	1	Grab	8270	5	<50		<50	
33. Total Phthalates (Phthalate esters) ⁴		☒	☐	1	Grab	8270	5	<10		<10	
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	1	Grab	8270	5	<10		<10	
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	1	Grab	8270	5	<5		<2	
a. Benzo(a) Anthracene	56553	☒	☐	8	Grab	8270	5	<2		<2	
b. Benzo(a) Pyrene	50328	☒	☐	8	Grab	8270	5	<2		<2	
c. Benzo(b)Fluoranthene	205992	☒	☐	8	Grab	8270	5	<2		<2	
d. Benzo(k)Fluoranthene	207089	☒	☐	8	Grab	8270	5	<2		<2	
e. Chrysene	21801	☒	☐	8	Grab	8270	5	<2		<2	
f. Dibenzo(a,h)anthracene	53703	☒	☐	8	Grab	8270	5	<2		<2	
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	8	Grab	8270	5	<2		<2	
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	8	Grab	8270	5	79		79	

⁴ The 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	☒	☐	8	Grab	8270	5	<2		<2	
i. Acenaphthylene	208968	☐	☒	8	Grab	8270	5	20		20	
j. Anthracene	120127	☒	☐	8	Grab	8270	5	<2		<2	
k. Benzo(ghi) Perylene	191242	☒	☐	8	Grab	8270	5	<2		<2	
l. Fluoranthene	206440	☒	☐	8	Grab	8270	5	<2		<2	
m. Fluorene	86737	☒	☐	8	Grab	8270	5	<2		<2	
n. Naphthalene	91203	☒	☐	8	Grab	8270	5	59		59	
o. Phenanthrene	85018	☒	☐	8	Grab	8270	5	<2		<2	
p. Pyrene	129000	☒	☐	8	Grab	8270	5	<2		<2	
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	1	Grab	608	0.5	<0.5		<0.5	
38. Chloride	16887006	☐	☐	1	Grab	300.0	2000	300,000		300,000	
39. Antimony	7440360	☒	☐	1	Grab	60106	10	<2.5		<2.5	
40. Arsenic	7440382	☐	☒	1	Grab	60106	20	1.2		1.2	
41. Cadmium	7440439	☐	☐	1	Grab	60106	10	<0.5		<0.5	
42. Chromium III (trivalent)	16065831	☒	☐	1	Grab	Calculation		<100		<100	
43. Chromium VI (hexavalent)	18540299	☒	☐	1	Grab	35006.D	10	<10		<10	
44. Copper	7440508	☒	☐	1	Grab	60106	15	<5		<5	
45. Lead	7439921	☒	☐	1	Grab	60106	20	<1		<1	
46. Mercury	7439976	☒	☐	1	Grab	7470A	0.2	<0.2		<0.2	
47. Nickel	7440020	☐	☒	1	Grab	60106	20	2		2	
48. Selenium	7782492	☐	☒	1	Grab	60106	20	4.4		4.4	
49. Silver	7440224	☐	☒	1	Grab	60106	10	0.56		0.56	
50. Zinc	7440666	☐	☒	1	Grab	60106	15	5.4		5.4	
51. Iron	7439896	☐	☒	1	Grab	60106	20	220		220	
Other (describe): ^{SEC -} Butylbenzene	135988	☒	☐	7	Grab	8260	1.0	4.4		4.4	
Isopropylbenzene	98822	X		7	Grab	8260	1.0	290		290	

<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>
1,2,4 - Trimethylbenzene	95636	☒	☐	7	Grab	8260	1.0	430		430	
1,3,5 - Trimethylbenzene	108678	☒	☐	7	Grab	8260	1.0	110		110	
EPH (1) VPH (2)		X X		7 7	Grab Grab	MA DEP MA DEP	100 2.5	230 11,000		230 11,000	

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?										
<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:</td> <td>DF:</td> </tr> <tr> <td>Metal:</td> <td>DF:</td> </tr> <tr> <td>Metal:</td> <td>DF:</td> </tr> <tr> <td>Metal:</td> <td>DF:</td> </tr> <tr> <td>Etc.</td> <td></td> </tr> </table>	Metal:	DF:	Metal:	DF:	Metal:	DF:	Metal:	DF:	Etc.		Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ☐ N ☒ If Y, list which metals:
Metal:	DF:										
Metal:	DF:										
Metal:	DF:										
Metal:	DF:										
Etc.											

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:						
The construction dewatering treatment system will include frac tank(s), particulate filters, and granular activated carbon vessels (in order of treatment).						
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):

NONE ANTICIPATED.

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 to off-site storm drain directly adjacent to site, managed by BWSC, which leads to Neponset River. BWSC permit application has been submitted.

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 discharges, 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

Class B

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

3.31

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)?

(Metals/Oil & Grease/Organic Enrichment/Priority Organic Compounds)

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

Fecal Coliform

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.

NPDES Permit No. MAG910000
NPDES Permit No. NHG910000

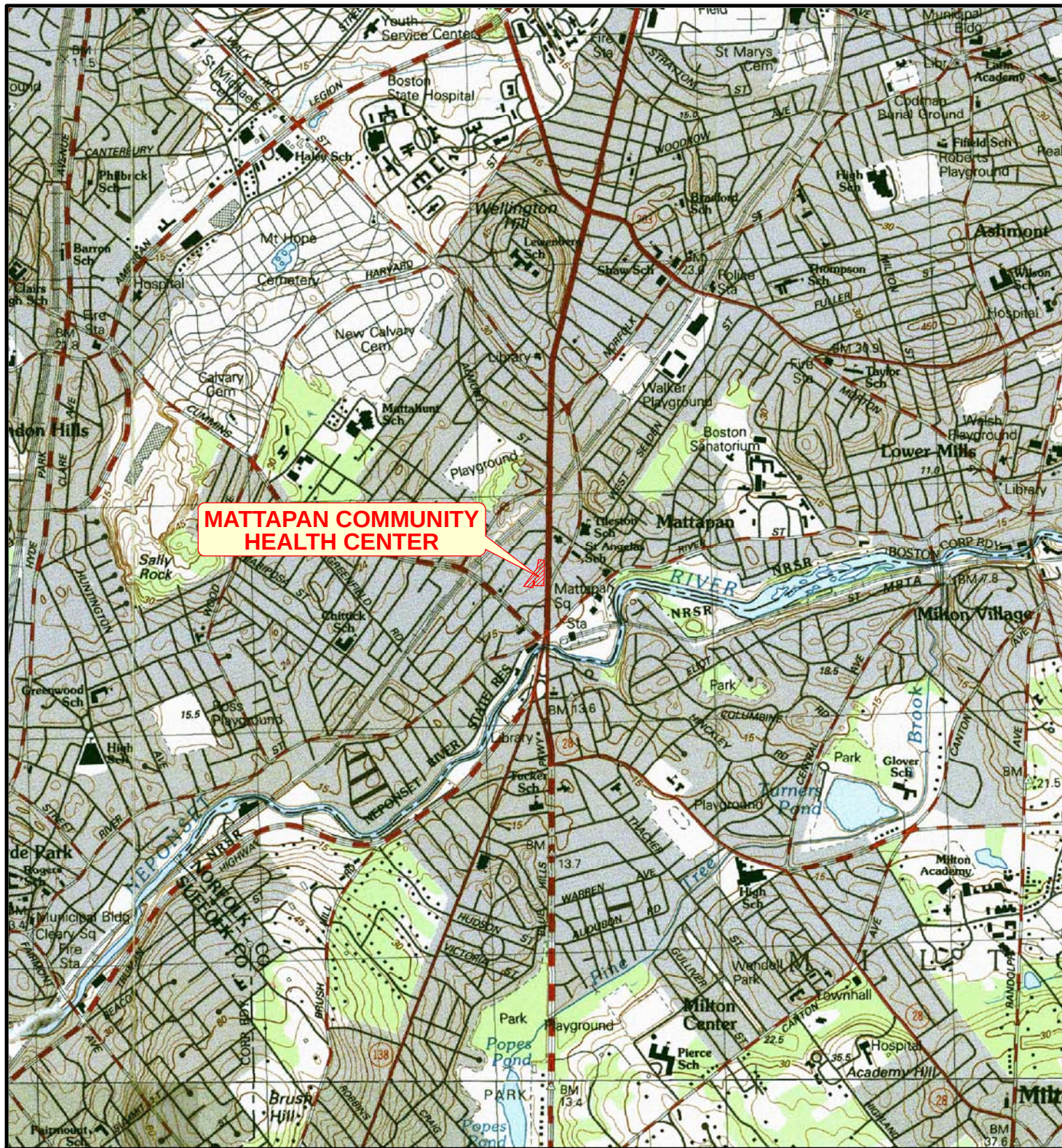
8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

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.

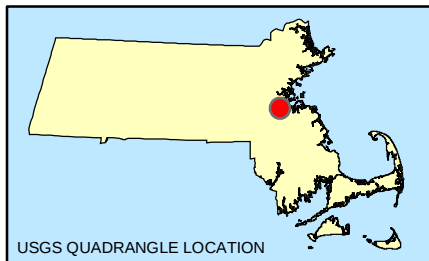
Facility/Site Name:	Mattapan Community Health Center
Operator signature:	<i>Harold H. Penney</i>
Printed Name & Title:	HAROLD H. PENNEY FORMAN
Date:	3-3-11

ATTACHMENT 2

FIGURE 1 – SITE LOCUS MAP



**MATTAPAN COMMUNITY
HEALTH CENTER**

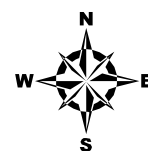


SOURCE : SCANNED USGS TOPOGRAPHIC QUADRANGLES
SCANNED BY THE MASSACHUSETTS EXECUTIVE OFFICE OF
ENVIRONMENTAL AFFAIRS, MASSGIS. DISTRIBUTED JUNE, 2001.

Data Supplied by :



0 1,000 2,000 4,000 6,000
Feet



PROJ. MGR.: RMC
DESIGNED BY: DSG
REVIEWED BY: AJR
OPERATOR: GAS/EMD
DATE: 02-14-2011

LOCUS PLAN

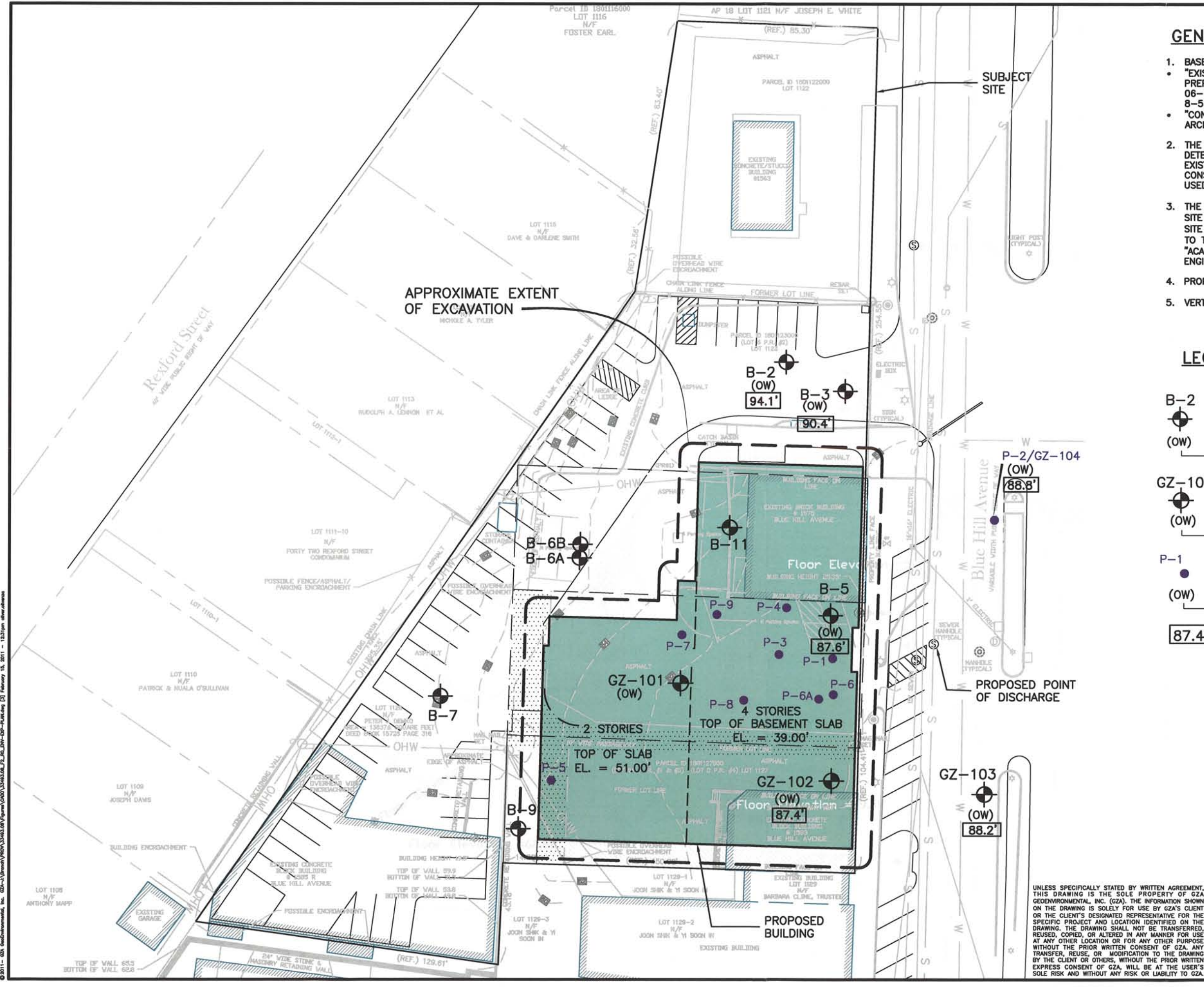
MATTAPAN COMMUNITY HEALTH CENTER
1563 - 1585 BLUE HILLS AVENUE
MATTAPAN, MASSACHUSETTS

JOB NO.
03.0033493.08

FIGURE NO.
1

ATTACHMENT 3

FIGURE 2 – SITE PLAN

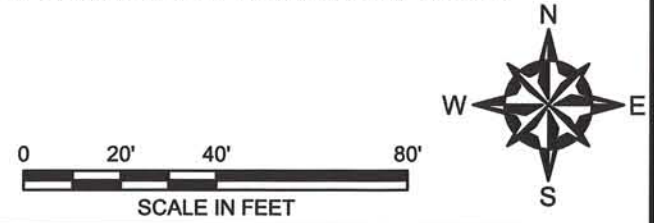


GENERAL NOTES

1. BASE MAP DEVELOPED FROM THE FOLLOWING AUTOCAD DRAWING FILES:
 - "EXISTING CONDITIONS PLAN", "ACAD-1609-001S EXISTING BLOCK.DWG" PREPARED BY DIPRETE ENGINEERING TRANSMITTED TO GZA ON 06-18-09 AND SCANNED PORTIONS FROM LOT MERGER PLAN DATED 8-5-10.
 - "CONCEPT SITE PLAN", "SITE.DWG" PREPARED BY STEFFIAN BRADLEY ARCHITECTS TRANSMITTED TO GZA ON 06-22-09.
2. THE LOCATION OF THE EXPLORATIONS WERE APPROXIMATELY DETERMINED BY LINE OF SIGHT AND TAPE MEASUREMENTS FROM EXISTING TOPOGRAPHIC FEATURES. THESE LOCATIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
3. THE LOCATION(S) OF THE PROPOSED STRUCTURE(S) ON THE EXISTING SITE WAS DETERMINED BY ALIGNING THE PROPERTY LINE IN "CONCEPT SITE PLAN", "SITE.DWG" PREPARED BY STEFFIAN BRADLEY ARCHITECTS TO THE PROPERTY LINE IN "EXISTING CONDITIONS PLAN", "ACAD-1609-001S EXISTING BLOCK.DWG" PREPARED BY DIPRETE ENGINEERING
4. PROPOSED BORINGS B-1, B-4, B-8 AND B-10 WERE NOT DRILLED.
5. VERTICAL DATUM IS (NAVD 88), MEAN SEA LEVEL, (MSL=0), IN FEET.

LEGEND

- B-2 (OW) INDICATES BORINGS PERFORMED BY NEW HAMPSHIRE BORING OF BROCKTON, MASSACHUSETTS BETWEEN JUNE 2 AND JUNE 5, 2009. OBSERVED BY GZA PERSONNEL.
- INDICATES OBSERVATION WELL INSTALLED IN BORING.
- GZ-101 (OW) INDICATES BORINGS PERFORMED BY NEW HAMPSHIRE BORING OF BROCKTON, MASSACHUSETTS BETWEEN JANUARY 20-21, 2010. OBSERVED BY GZA PERSONNEL.
- INDICATES OBSERVATION WELL INSTALLED IN BORING.
- P-1 (OW) INDICATES GEOPROBES PERFORMED BY NEW ENGLAND GEOTECH OF JAMESTOWN, RHODE ISLAND ON JANUARY 22, 2010. OBSERVED BY GZA PERSONNEL.
- INDICATES OBSERVATION WELL INSTALLED IN GEOPROBE.
- 87.4' INDICATES GROUNDWATER ELEVATION IN FEAT BASED ON READINGS MADE BY GZA ON FEBRUARY 4, 2010.



1	REVISED SITE PER LOT MERGER PLAN	RMC	1-5-10
NO.	ISSUE/DESCRIPTION	BY	DATE
MATTAPAN COMMUNITY HEALTH CENTER 1563-1585 BLUE HILL AVENUE MATTAPAN, MASSACHUSETTS EXPLORATION LOCATION/SITE PLAN			
PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists 530 BROADWAY PROVIDENCE, RHODE ISLAND 02909 (401) 421-4140		PREPARED FOR: Mattapan Community Health Center 1425 BLUE HILL AVENUE, MATTAPAN, MA	
PROJ MGR:	MC	REVIEWED BY:	JAC
DESIGNED BY:	JWM	DRAWN BY:	PAS/OCJ
DATE	02-15-2011	PROJECT NO.	33493.08
		REVISION NO.	0
			FIGURE NO. 2

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

ATTACHMENT 4

LABORATORY ANALYTICAL RESULTS



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project No.: **03.0033493.02**
Work Order No.: **1002-00049**
Date Received: **02/05/2010**
Date Reported: **02/16/2010**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
02/04/2010	Aqueous	1002-00049 001	GZ-101
02/04/2010	Aqueous	1002-00049 002	GZ-102
02/04/2010	Aqueous	1002-00049 003	GZ-103
02/04/2010	Aqueous	1002-00049 004	GZ-104
02/04/2010	Aqueous	1002-00049 005	B-2
02/04/2010	Aqueous	1002-00049 006	B-3
02/04/2010	Aqueous	1002-00049 007	B-5
02/04/2010	Aqueous	1002-00049 008	TBLK 020410



MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: GZA GeoEnvironmental, Inc.		Project #: 03.0033493.02			
Project Location: Phase II ESA - Blue Hill Ave.		MADEP RTN ¹ :			
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] 1002-00049					
Sample Matrices: ☒ Groundwater ☐ Soil/Sediment ☐ Drinking Water ☐ Other: _____					
MCP SW-846 Methods Used	8260B ☒	8151A ()	8330 ()	6010B ()	7470A/1A ()
	8270C ()	8081A ()	VPH ☒	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ()	8021B ()	EPH ☒	7000 S ³ ()	7196A ()
	1 List Release Tracking Number (RTN), if known 2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S – SW-846 Methods 7000 Series List individual method and analyte.				
An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status					
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?				☒ Yes ☐ No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?				☒ Yes ☐ No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				☒ Yes ☐ No ¹
D	<u>VPH and EPH Methods only.</u> Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)				☒ Yes ☐ No ¹
A response to questions E and F below is required for "Presumptive Certainty" status					
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?				☐ Yes ☒ No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?				☒ Yes ☐ No ¹
¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.					
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.					
Signature:		Position: Laboratory Supervisor			
Printed Name: Andrew Yaroshefski		Date: 02/16/10			



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 02/05/10 via x GZA courier, EC, FEDEX, or hand delivered.
The samples were received intact for all requested analyses.

The following questions are answered upon sample receipt to determine compliance with MADEP Defined "Presumptive Certainty":

Were the samples received between 2-6 degrees C (Temperature = 3.8 degrees C)? (x) yes () no
* The temperature requirement for most analyses is above freezing to 6 degrees C.

Were the samples received with method specific preservatives within holding time? (x) yes () no
* The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference.

Were all constituents for the MCP Method(s) selected assigned on the COC? (x) yes () no
* Full MCP14 Metals () yes () no (x) not assigned
* Full EPA 8270 SVOCs () yes () no (x) not assigned
* Full EPA 8260 or 8021 VOCs (x) yes () no () not assigned

2. MADEP VOLATILE PETROLEUM HYDROCARBONS (VPH)

Target analytes were analyzed and reported by GC/MS (Method 8260).

Attach QC VPH 02/08/10 - Aqueous

3. EPA Method 8260 - VOCs

The elevated reporting limits for sample GZ-101 (1002-00049-001), B-3 (1002-00049-006), and B-5 (1002-00049-007) are due to initial dilution of the sample in order to get target compounds within the calibration range of the instrument. The dilution was based upon screening data for the sample.

The Laboratory Control Sample (LCS) (2/9/10 A) had MA MCP 8260 List analytes outside of the acceptance criteria. Specific outliers include: 1,1-dichloroethane (150%), di-isopropyl ether (DIPE) (161%), and isopropylbenzene (138%).

The Laboratory Control Sample Duplicate (LCSD) (2/9/10 A) had MA MCP 8260 List analytes outside of the acceptance criteria. Specific outliers include: dichlorodifluoromethane (135%), tetrahydrofuran (164%), and isopropylbenzene (141%).

The Relative Percent Difference between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) (2/9/10 A) had MA MCP 8260 List analytes outside of the acceptance criteria. Specific outliers include: 1,1-dichloroethane (36.7%), di-isopropyl ether (DIPE) (33.2%), and tetrahydrofuran (30.9%).

Attach QC 8260 2/9/10 "A" - Aqueous



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(781) 278-4700

Page 4 of 36

ANALYTICAL REPORT

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4. MADEP EXTRACTABLE PETROLEUM HYDROCARBONS (EPH)

The Relative Percent Difference between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) (2/12/10) had a MADEP EPH List analyte outside of the acceptance criteria. Specific outliers includes: Dibenzo(ah)anthracene (26.9%)

Attach QC EPH 02/11/10 - Aqueous
Attach QC EPH 02/12/10 - Aqueous



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Page 5 of 36

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
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Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

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LABORATORY STATEMENTS:

NELAC certification, as indicated by the NELAC ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

MA Certification: MA DEP certifies for wastewater and drinking water matrices only. GZA is certified by MA DEP for EPA Methods 624, 524.2, 625, 245.1, 300.0 (Cl, SO₄, NO₃) and 200.7 (Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Se, Ag, Tl, Zn, Al, Co, Fe, Mn, Mo, V.) The certification requirements were followed.

Abbreviations:

% R = % Recovery
DF = Dilution Factor
CF = Calculation Factor
DO = Diluted Out

Method Key:

Method 8260: The current version of the method is 8260B.
Method 8270: The current version of the method is 8270D.
Method 6010: The current version of the method is 6010B.

Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.



ANALYTICAL REPORT

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Mike Clark

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Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-101**

Sample No.: **001**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
EPH	MADEP				KEF	02/13/2010
Unadjusted C11-C22 Aromatic	MADEP	<100	100	ug/L	KEF	02/13/2010
C9-C18 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C19-C36 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C11-C22 Aromatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
Surrogates:	MADEP					
***1-Chlorooctadecane	MADEP	44.6	40-140	%R	KEF	02/13/2010
***p-Terphenyl (aromatic)	MADEP	82.2	40-140	%R	KEF	02/13/2010
***2-Bromonaphthalene	MADEP	91.1	40-140	%R	KEF	02/13/2010
TARGETED PAH ANALYTES	MADEP					
Naphthalene (Diesel PAH)	MADEP	18	5.0	ug/L	KEF	02/13/2010
2-Methylnaphthalene	MADEP	5.5	5.0	ug/L	KEF	02/13/2010
Acenaphthylene	MADEP	20	5.0	ug/L	KEF	02/13/2010
Acenaphthene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluorene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Phenanthrene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Chrysene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [b] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [k] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Indeno [1,2,3-cd] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Dibenzo [a,h] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [g,h,i] Perylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Extraction	EPA 3510C	1.0		DF	JKC	02/11/2010
VPH	MADEP				KAC	02/08/2010
Unweighted Concentrations:						
C5-C8 Aliphatics	MADEP	9700	1000	ug/L	KAC	02/08/2010
C9-C12 Aliphatics	MADEP	2100	1000	ug/L	KAC	02/08/2010
C9-C10 Aromatics	MADEP	<1000	1000	ug/L	KAC	02/08/2010
(excludes targeted analytes)						



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Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-101**

Sample No.: **001**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Surrogate:						
***2,5-Dibromotoluene (PID)	MADEP	107	70-130	% R	KAC	02/08/2010
***2,5-Dibromotoluene (FID)	MADEP	118	70-130	% R	KAC	02/08/2010
Preparation	EPA 5030B	40		DF	KAC	02/08/2010
VOLATILE ORGANICS	EPA 8260				MQS	02/09/2010
Dichlorodifluoromethane	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Chloromethane	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Vinyl Chloride	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Bromomethane	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Chloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Trichlorofluoromethane	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Diethylether	EPA 8260	<130	130	ug/L	MQS	02/09/2010
Acetone	EPA 8260	<630	630	ug/L	MQS	02/09/2010
1,1-Dichloroethene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Freon 113	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Carbon Disulfide	EPA 8260	<250	250	ug/L	MQS	02/09/2010
Dichloromethane	EPA 8260	<50	50	ug/L	MQS	02/09/2010
tert-Butyl alcohol (TBA)	EPA 8260	<630	630	ug/L	MQS	02/09/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<25	25	ug/L	MQS	02/09/2010
trans-1,2-Dichloroethene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1-Dichloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Di-isopropyl ether (DIPE)	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Ethyl tert-butyl ether ETBE	EPA 8260	<50	50	ug/L	MQS	02/09/2010
2-Butanone	EPA 8260	<630	630	ug/L	MQS	02/09/2010
2,2-Dichloropropane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
cis-1,2-Dichloroethene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Chloroform	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Bromochloromethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Tetrahydrofuran	EPA 8260	<250	250	ug/L	MQS	02/09/2010
1,1,1-Trichloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1-Dichloropropene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Carbon Tetrachloride	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,2-Dichloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Benzene	EPA 8260	1900	25	ug/L	MQS	02/09/2010
tert-Amyl methyl ether TAME	EPA 8260	<50	50	ug/L	MQS	02/09/2010



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Sample ID: **GZ-101**

Sample No.: **001**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Trichloroethene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,4-Dioxane	EPA 8260	<2500	2500	ug/L	MQS	02/09/2010
1,2-Dichloropropane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Bromodichloromethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Dibromomethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
4-Methyl-2-Pentanone	EPA 8260	<630	630	ug/L	MQS	02/09/2010
cis-1,3-Dichloropropene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Toluene	EPA 8260	3800	25	ug/L	MQS	02/09/2010
trans-1,3-Dichloropropene	EPA 8260	<50	50	ug/L	MQS	02/09/2010
1,1,2-Trichloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
2-Hexanone	EPA 8260	<630	630	ug/L	MQS	02/09/2010
1,3-Dichloropropane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Tetrachloroethene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Dibromochloromethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,2-Dibromoethane (EDB)	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Chlorobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Ethylbenzene	EPA 8260	340	25	ug/L	MQS	02/09/2010
m&p-Xylene	EPA 8260	1300	50	ug/L	MQS	02/09/2010
o-Xylene	EPA 8260	530	25	ug/L	MQS	02/09/2010
Styrene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Bromoform	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Isopropylbenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,2,3-Trichloropropane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Bromobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
N-Propylbenzene	EPA 8260	29	25	ug/L	MQS	02/09/2010
2-Chlorotoluene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,3,5-Trimethylbenzene	EPA 8260	59	25	ug/L	MQS	02/09/2010
4-Chlorotoluene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
tert-Butylbenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,2,4-Trimethylbenzene	EPA 8260	240	25	ug/L	MQS	02/09/2010
sec-Butylbenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
p-Isopropyltoluene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,3-Dichlorobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010



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Work Order No.: **1002-00049**

Sample ID: **GZ-101**

Sample No.: **001**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,4-Dichlorobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
n-Butylbenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,2-Dichlorobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<130	130	ug/L	MQS	02/09/2010
1,2,4-Trichlorobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Hexachlorobutadiene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Naphthalene	EPA 8260	<50	50	ug/L	MQS	02/09/2010
1,2,3-Trichlorobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	99.3	70-130	% R	MQS	02/09/2010
***Toluene-D8	EPA 8260	106	70-130	% R	MQS	02/09/2010
***4-Bromofluorobenzene	EPA 8260	100	70-130	% R	MQS	02/09/2010
Preparation	EPA 5030B	25		CF	MQS	02/09/2010



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Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-102**

Sample No.: **002**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
EPH	MADEP				KEF	02/13/2010
Unadjusted C11-C22 Aromatic	MADEP	<100	100	ug/L	KEF	02/13/2010
C9-C18 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C19-C36 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C11-C22 Aromatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
Surrogates:	MADEP					
***1-Chlorooctadecane	MADEP	52.0	40-140	%R	KEF	02/13/2010
***p-Terphenyl (aromatic)	MADEP	80.7	40-140	%R	KEF	02/13/2010
***2-Bromonaphthalene	MADEP	99.4	40-140	%R	KEF	02/13/2010
TARGETED PAH ANALYTES	MADEP					
Naphthalene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
2-Methylnaphthalene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Acenaphthylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Acenaphthene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluorene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Phenanthrene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Chrysene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [b] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [k] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Indeno [1,2,3-cd] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Dibenzo [a,h] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [g,h,i] Perylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Extraction	EPA 3510C	1.0		DF	JKC	02/11/2010
VPH	MADEP				KAC	02/08/2010
Unweighted Concentrations:						
C5-C8 Aliphatics	MADEP	<25	25	ug/L	KAC	02/08/2010
C9-C12 Aliphatics	MADEP	<25	25	ug/L	KAC	02/08/2010
C9-C10 Aromatics	MADEP	<25	25	ug/L	KAC	02/08/2010
(excludes targeted analytes						



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Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-102**

Sample No.: **002**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Surrogate:						
***2,5-Dibromotoluene (PID)	MADEP	107	70-130	% R	KAC	02/08/2010
***2,5-Dibromotoluene (FID)	MADEP	110	70-130	% R	KAC	02/08/2010
Preparation	EPA 5030B	1.0		DF	KAC	02/08/2010
VOLATILE ORGANICS	EPA 8260				MQS	02/09/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Acetone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Freon 113	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Carbon Disulfide	EPA 8260	<10	10	ug/L	MQS	02/09/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
tert-Butyl alcohol (TBA)	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Di-isopropyl ether (DIPE)	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Ethyl tert-butyl ether ETBE	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
2-Butanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Chloroform	EPA 8260	1.2	1.0	ug/L	MQS	02/09/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	02/09/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
tert-Amyl methyl ether TAME	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-102**

Sample No.: **002**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,4-Dioxane	EPA 8260	<100	100	ug/L	MQS	02/09/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
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Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-102**

Sample No.: **002**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	104	70-130	% R	MQS	02/09/2010
***Toluene-D8	EPA 8260	104	70-130	% R	MQS	02/09/2010
***4-Bromofluorobenzene	EPA 8260	101	70-130	% R	MQS	02/09/2010
Preparation	EPA 5030B	1.0		CF	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
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Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-103**

Sample No.: **003**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
EPH	MADEP				KEF	02/13/2010
Unadjusted C11-C22 Aromatic	MADEP	<100	100	ug/L	KEF	02/13/2010
C9-C18 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C19-C36 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C11-C22 Aromatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
Surrogates:	MADEP					
***1-Chlorooctadecane	MADEP	49.4	40-140	%R	KEF	02/13/2010
***p-Terphenyl (aromatic)	MADEP	85.3	40-140	%R	KEF	02/13/2010
***2-Bromonaphthalene	MADEP	91.6	40-140	%R	KEF	02/13/2010
TARGETED PAH ANALYTES	MADEP					
Naphthalene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
2-Methylnaphthalene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Acenaphthylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Acenaphthene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluorene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Phenanthrene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Chrysene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [b] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [k] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Indeno [1,2,3-cd] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Dibenzo [a,h] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [g,h,i] Perylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Extraction	EPA 3510C	1.0		DF	JKC	02/11/2010
VPH	MADEP				KAC	02/08/2010
Unweighted Concentrations:						
C5-C8 Aliphatics	MADEP	1900	120	ug/L	KAC	02/08/2010
C9-C12 Aliphatics	MADEP	<120	120	ug/L	KAC	02/08/2010
C9-C10 Aromatics	MADEP	300	120	ug/L	KAC	02/08/2010
(excludes targeted analytes)						



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Project Name.: **Phase II ESA - Blue Hill Ave.**
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Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-103**

Sample No.: **003**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Surrogate:						
***2,5-Dibromotoluene (PID)	MADEP	103	70-130	% R	KAC	02/08/2010
***2,5-Dibromotoluene (FID)	MADEP	112	70-130	% R	KAC	02/08/2010
Preparation	EPA 5030B	5.0		DF	KAC	02/08/2010
VOLATILE ORGANICS	EPA 8260				MQS	02/09/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Acetone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Freon 113	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Carbon Disulfide	EPA 8260	<10	10	ug/L	MQS	02/09/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
tert-Butyl alcohol (TBA)	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Di-isopropyl ether (DIPE)	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Ethyl tert-butyl ether ETBE	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
2-Butanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	02/09/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Benzene	EPA 8260	4.7	1.0	ug/L	MQS	02/09/2010
tert-Amyl methyl ether TAME	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010



ANALYTICAL REPORT

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530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-103**

Sample No.: **003**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,4-Dioxane	EPA 8260	<100	100	ug/L	MQS	02/09/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Toluene	EPA 8260	1.9	1.0	ug/L	MQS	02/09/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Ethylbenzene	EPA 8260	3.3	1.0	ug/L	MQS	02/09/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Isopropylbenzene	EPA 8260	40	1.0	ug/L	MQS	02/09/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
N-Propylbenzene	EPA 8260	29	1.0	ug/L	MQS	02/09/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
sec-Butylbenzene	EPA 8260	4.4	1.0	ug/L	MQS	02/09/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-103**

Sample No.: **003**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
n-Butylbenzene	EPA 8260	3.1	1.0	ug/L	MQS	02/09/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	97.2	70-130	% R	MQS	02/09/2010
***Toluene-D8	EPA 8260	114	70-130	% R	MQS	02/09/2010
***4-Bromofluorobenzene	EPA 8260	106	70-130	% R	MQS	02/09/2010
Preparation	EPA 5030B	1.0		CF	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
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Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-104**

Sample No.: **004**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
EPH	MADEP				KEF	02/13/2010
Unadjusted C11-C22 Aromatic	MADEP	<100	100	ug/L	KEF	02/13/2010
C9-C18 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C19-C36 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C11-C22 Aromatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
Surrogates:	MADEP					
***1-Chlorooctadecane	MADEP	62.5	40-140	%R	KEF	02/13/2010
***p-Terphenyl (aromatic)	MADEP	86.8	40-140	%R	KEF	02/13/2010
***2-Bromonaphthalene	MADEP	94.5	40-140	%R	KEF	02/13/2010
TARGETED PAH ANALYTES	MADEP					
Naphthalene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
2-Methylnaphthalene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Acenaphthylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Acenaphthene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluorene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Phenanthrene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Chrysene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [b] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [k] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Indeno [1,2,3-cd] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Dibenzo [a,h] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [g,h,i] Perylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Extraction	EPA 3510C	1.0		DF	JKC	02/11/2010
VPH	MADEP				KAC	02/08/2010
Unweighted Concentrations:						
C5-C8 Aliphatics	MADEP	140	50	ug/L	KAC	02/08/2010
C9-C12 Aliphatics	MADEP	<50	50	ug/L	KAC	02/08/2010
C9-C10 Aromatics	MADEP	110	50	ug/L	KAC	02/08/2010
(excludes targeted analytes)						



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-104**

Sample No.: **004**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Surrogate:						
***2,5-Dibromotoluene (PID)	MADEP	101	70-130	% R	KAC	02/08/2010
***2,5-Dibromotoluene (FID)	MADEP	111	70-130	% R	KAC	02/08/2010
Preparation	EPA 5030B	2.0		DF	KAC	02/08/2010
VOLATILE ORGANICS	EPA 8260				MQS	02/09/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Acetone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Freon 113	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Carbon Disulfide	EPA 8260	<10	10	ug/L	MQS	02/09/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
tert-Butyl alcohol (TBA)	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Di-isopropyl ether (DIPE)	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Ethyl tert-butyl ether ETBE	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
2-Butanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	02/09/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
tert-Amyl methyl ether TAME	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-104**

Sample No.: **004**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,4-Dioxane	EPA 8260	<100	100	ug/L	MQS	02/09/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Toluene	EPA 8260	2.4	1.0	ug/L	MQS	02/09/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
m&p-Xylene	EPA 8260	2.6	2.0	ug/L	MQS	02/09/2010
o-Xylene	EPA 8260	1.0	1.0	ug/L	MQS	02/09/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Isopropylbenzene	EPA 8260	1.8	1.0	ug/L	MQS	02/09/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
N-Propylbenzene	EPA 8260	3.1	1.0	ug/L	MQS	02/09/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2,4-Trimethylbenzene	EPA 8260	6.0	1.0	ug/L	MQS	02/09/2010
sec-Butylbenzene	EPA 8260	1.1	1.0	ug/L	MQS	02/09/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

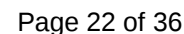
Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **GZ-104**

Sample No.: **004**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	107	70-130	% R	MQS	02/09/2010
***Toluene-D8	EPA 8260	106	70-130	% R	MQS	02/09/2010
***4-Bromofluorobenzene	EPA 8260	103	70-130	% R	MQS	02/09/2010
Preparation	EPA 5030B	1.0		CF	MQS	02/09/2010



Date Received: 02/05/2010
Date Reported: 02/16/2010
Work Order No.: 1002-00049

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
EPH	MADEP				KEF	02/13/2010
Unadjusted C11-C22 Aromatic	MADEP	<100	100	ug/L	KEF	02/13/2010
C9-C18 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C19-C36 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C11-C22 Aromatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
Surrogates:	MADEP					
***1-Chlorooctadecane	MADEP	60.7	40-140	%R	KEF	02/13/2010
***p-Terphenyl (aromatic)	MADEP	91.7	40-140	%R	KEF	02/13/2010
***2-Bromonaphthalene	MADEP	102	40-140	%R	KEF	02/13/2010
TARGETED PAH ANALYTES	MADEP					
Naphthalene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
2-Methylnaphthalene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Acenaphthylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Acenaphthene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluorene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Phenanthrene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Chrysene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [b] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [k] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Indeno [1,2,3-cd] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Dibenzo [a,h] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [g,h,i] Perylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Extraction	EPA 3510C	1.0		DF	JKC	02/12/2010
VPH	MADEP				KAC	02/08/2010
Unweighted Concentrations:						
C5-C8 Aliphatics	MADEP	190	120	ug/L	KAC	02/08/2010
C9-C12 Aliphatics	MADEP	<120	120	ug/L	KAC	02/08/2010
C9-C10 Aromatics	MADEP	160	120	ug/L	KAC	02/08/2010
(excludes targeted analytes						



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **B-2**

Sample No.: **005**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Surrogate:						
***2,5-Dibromotoluene (PID)	MADEP	96.1	70-130	% R	KAC	02/08/2010
***2,5-Dibromotoluene (FID)	MADEP	103	70-130	% R	KAC	02/08/2010
Preparation	EPA 5030B	5.0		DF	KAC	02/08/2010
VOLATILE ORGANICS	EPA 8260				MQS	02/09/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Acetone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Freon 113	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Carbon Disulfide	EPA 8260	<10	10	ug/L	MQS	02/09/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
tert-Butyl alcohol (TBA)	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Di-isopropyl ether (DIPE)	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Ethyl tert-butyl ether ETBE	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
2-Butanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	02/09/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
tert-Amyl methyl ether TAME	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **B-2**

Sample No.: **005**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,4-Dioxane	EPA 8260	<100	100	ug/L	MQS	02/09/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Isopropylbenzene	EPA 8260	4.7	1.0	ug/L	MQS	02/09/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
N-Propylbenzene	EPA 8260	3.8	1.0	ug/L	MQS	02/09/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **B-2**

Sample No.: **005**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	104	70-130	% R	MQS	02/09/2010
***Toluene-D8	EPA 8260	105	70-130	% R	MQS	02/09/2010
***4-Bromofluorobenzene	EPA 8260	102	70-130	% R	MQS	02/09/2010
Preparation	EPA 5030B	1.0		CF	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **B-3**

Sample No.: **006**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
EPH	MADEP				KEF	02/13/2010
Unadjusted C11-C22 Aromatic	MADEP	110	100	ug/L	KEF	02/13/2010
C9-C18 Aliphatic Fraction	MADEP	120	100	ug/L	KEF	02/13/2010
C19-C36 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C11-C22 Aromatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
Surrogates:	MADEP					
***1-Chlorooctadecane	MADEP	64.7	40-140	%R	KEF	02/13/2010
***p-Terphenyl (aromatic)	MADEP	99.4	40-140	%R	KEF	02/13/2010
***2-Bromonaphthalene	MADEP	84.3	40-140	%R	KEF	02/13/2010
TARGETED PAH ANALYTES	MADEP					
Naphthalene (Diesel PAH)	MADEP	17	5.0	ug/L	KEF	02/13/2010
2-Methylnaphthalene	MADEP	5.3	5.0	ug/L	KEF	02/13/2010
Acenaphthylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Acenaphthene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluorene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Phenanthrene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Chrysene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [b] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [k] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Indeno [1,2,3-cd] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Dibenzo [a,h] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [g,h,i] Perylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Extraction	EPA 3510C	1.0		DF	JKC	02/12/2010
VPH	MADEP				KAC	02/08/2010
Unweighted Concentrations:						
C5-C8 Aliphatics	MADEP	4500	500	ug/L	KAC	02/08/2010
C9-C12 Aliphatics	MADEP	1500	500	ug/L	KAC	02/08/2010
C9-C10 Aromatics	MADEP	1300	500	ug/L	KAC	02/08/2010
(excludes targeted analytes)						



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Sample ID: **B-3**

Sample No.: **006**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Surrogate:						
***2,5-Dibromotoluene (PID)	MADEP	108	70-130	% R	KAC	02/08/2010
***2,5-Dibromotoluene (FID)	MADEP	124	70-130	% R	KAC	02/08/2010
Preparation	EPA 5030B	20		DF	KAC	02/08/2010
VOLATILE ORGANICS	EPA 8260				MQS	02/09/2010
Dichlorodifluoromethane	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Chloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Vinyl Chloride	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Bromomethane	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Chloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Trichlorofluoromethane	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Diethylether	EPA 8260	<13	13	ug/L	MQS	02/09/2010
Acetone	EPA 8260	<63	63	ug/L	MQS	02/09/2010
1,1-Dichloroethene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Freon 113	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Carbon Disulfide	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Dichloromethane	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
tert-Butyl alcohol (TBA)	EPA 8260	<63	63	ug/L	MQS	02/09/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
trans-1,2-Dichloroethene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
1,1-Dichloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Di-isopropyl ether (DIPE)	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Ethyl tert-butyl ether ETBE	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
2-Butanone	EPA 8260	<63	63	ug/L	MQS	02/09/2010
2,2-Dichloropropane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
cis-1,2-Dichloroethene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Chloroform	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Bromochloromethane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Tetrahydrofuran	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1,1-Trichloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
1,1-Dichloropropene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Carbon Tetrachloride	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
1,2-Dichloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Benzene	EPA 8260	29	2.5	ug/L	MQS	02/09/2010
tert-Amyl methyl ether TAME	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010



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Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **B-3**

Sample No.: **006**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Trichloroethene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
1,4-Dioxane	EPA 8260	<250	250	ug/L	MQS	02/09/2010
1,2-Dichloropropane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Bromodichloromethane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Dibromomethane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
4-Methyl-2-Pentanone	EPA 8260	<63	63	ug/L	MQS	02/09/2010
cis-1,3-Dichloropropene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Toluene	EPA 8260	280	2.5	ug/L	MQS	02/09/2010
trans-1,3-Dichloropropene	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
1,1,2-Trichloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
2-Hexanone	EPA 8260	<63	63	ug/L	MQS	02/09/2010
1,3-Dichloropropane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Tetrachloroethene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Dibromochloromethane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
1,2-Dibromoethane (EDB)	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Chlorobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Ethylbenzene	EPA 8260	78	2.5	ug/L	MQS	02/09/2010
m&p-Xylene	EPA 8260	320	5.0	ug/L	MQS	02/09/2010
o-Xylene	EPA 8260	160	2.5	ug/L	MQS	02/09/2010
Styrene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Bromoform	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Isopropylbenzene	EPA 8260	110	2.5	ug/L	MQS	02/09/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
1,2,3-Trichloropropane	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Bromobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
N-Propylbenzene	EPA 8260	39	2.5	ug/L	MQS	02/09/2010
2-Chlorotoluene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
1,3,5-Trimethylbenzene	EPA 8260	59	2.5	ug/L	MQS	02/09/2010
4-Chlorotoluene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
tert-Butylbenzene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
1,2,4-Trimethylbenzene	EPA 8260	190	2.5	ug/L	MQS	02/09/2010
sec-Butylbenzene	EPA 8260	6.0	2.5	ug/L	MQS	02/09/2010
p-Isopropyltoluene	EPA 8260	2.8	2.5	ug/L	MQS	02/09/2010
1,3-Dichlorobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010



ANALYTICAL REPORT

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530 Broadway
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Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **B-3**

Sample No.: **006**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,4-Dichlorobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
n-Butylbenzene	EPA 8260	13	2.5	ug/L	MQS	02/09/2010
1,2-Dichlorobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<13	13	ug/L	MQS	02/09/2010
1,2,4-Trichlorobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Hexachlorobutadiene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Naphthalene	EPA 8260	16	5.0	ug/L	MQS	02/09/2010
1,2,3-Trichlorobenzene	EPA 8260	<2.5	2.5	ug/L	MQS	02/09/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	99.9	70-130	% R	MQS	02/09/2010
***Toluene-D8	EPA 8260	107	70-130	% R	MQS	02/09/2010
***4-Bromofluorobenzene	EPA 8260	106	70-130	% R	MQS	02/09/2010
Preparation	EPA 5030B	2.5		CF	MQS	02/09/2010



ANALYTICAL REPORT

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Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **B-5**

Sample No.: **007**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
EPH	MADEP				KEF	02/13/2010
Unadjusted C11-C22 Aromatic	MADEP	120	100	ug/L	KEF	02/13/2010
C9-C18 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C19-C36 Aliphatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
C11-C22 Aromatic Fraction	MADEP	<100	100	ug/L	KEF	02/13/2010
Surrogates:	MADEP					
***1-Chlorooctadecane	MADEP	58.4	40-140	%R	KEF	02/13/2010
***p-Terphenyl (aromatic)	MADEP	102	40-140	%R	KEF	02/13/2010
***2-Bromonaphthalene	MADEP	101	40-140	%R	KEF	02/13/2010
TARGETED PAH ANALYTES	MADEP					
Naphthalene (Diesel PAH)	MADEP	34	5.0	ug/L	KEF	02/13/2010
2-Methylnaphthalene	MADEP	9.2	5.0	ug/L	KEF	02/13/2010
Acenaphthylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Acenaphthene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluorene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Phenanthrene (Diesel PAH)	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Chrysene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [b] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [k] Fluoranthene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [a] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Indeno [1,2,3-cd] Pyrene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Dibenzo [a,h] Anthracene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Benzo [g,h,i] Perylene	MADEP	<5.0	5.0	ug/L	KEF	02/13/2010
Extraction	EPA 3510C	1.0		DF	JKC	02/12/2010
VPH	MADEP				KAC	02/08/2010
Unweighted Concentrations:						
C5-C8 Aliphatics	MADEP	11000	1200	ug/L	KAC	02/08/2010
C9-C12 Aliphatics	MADEP	4200	1200	ug/L	KAC	02/08/2010
C9-C10 Aromatics	MADEP	1500	1200	ug/L	KAC	02/08/2010
(excludes targeted analytes)						



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Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **B-5**

Sample No.: **007**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Surrogate:						
***2,5-Dibromotoluene (PID)	MADEP	88.2	70-130	% R	KAC	02/08/2010
***2,5-Dibromotoluene (FID)	MADEP	94.9	70-130	% R	KAC	02/08/2010
Preparation	EPA 5030B	50		DF	KAC	02/08/2010
VOLATILE ORGANICS	EPA 8260				MQS	02/09/2010
Dichlorodifluoromethane	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Chloromethane	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Vinyl Chloride	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Bromomethane	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Chloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Trichlorofluoromethane	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Diethylether	EPA 8260	<130	130	ug/L	MQS	02/09/2010
Acetone	EPA 8260	<630	630	ug/L	MQS	02/09/2010
1,1-Dichloroethene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Freon 113	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Carbon Disulfide	EPA 8260	<250	250	ug/L	MQS	02/09/2010
Dichloromethane	EPA 8260	<50	50	ug/L	MQS	02/09/2010
tert-Butyl alcohol (TBA)	EPA 8260	<630	630	ug/L	MQS	02/09/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<25	25	ug/L	MQS	02/09/2010
trans-1,2-Dichloroethene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1-Dichloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Di-isopropyl ether (DIPE)	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Ethyl tert-butyl ether ETBE	EPA 8260	<50	50	ug/L	MQS	02/09/2010
2-Butanone	EPA 8260	<630	630	ug/L	MQS	02/09/2010
2,2-Dichloropropane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
cis-1,2-Dichloroethene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Chloroform	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Bromochloromethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Tetrahydrofuran	EPA 8260	<250	250	ug/L	MQS	02/09/2010
1,1,1-Trichloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1-Dichloropropene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Carbon Tetrachloride	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,2-Dichloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Benzene	EPA 8260	290	25	ug/L	MQS	02/09/2010
tert-Amyl methyl ether TAME	EPA 8260	<50	50	ug/L	MQS	02/09/2010



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Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **B-5**

Sample No.: **007**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Trichloroethene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,4-Dioxane	EPA 8260	<2500	2500	ug/L	MQS	02/09/2010
1,2-Dichloropropane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Bromodichloromethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Dibromomethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
4-Methyl-2-Pentanone	EPA 8260	<630	630	ug/L	MQS	02/09/2010
cis-1,3-Dichloropropene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Toluene	EPA 8260	4100	25	ug/L	MQS	02/09/2010
trans-1,3-Dichloropropene	EPA 8260	<50	50	ug/L	MQS	02/09/2010
1,1,2-Trichloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
2-Hexanone	EPA 8260	<630	630	ug/L	MQS	02/09/2010
1,3-Dichloropropane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Tetrachloroethene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Dibromochloromethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,2-Dibromoethane (EDB)	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Chlorobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Ethylbenzene	EPA 8260	680	25	ug/L	MQS	02/09/2010
m&p-Xylene	EPA 8260	2000	50	ug/L	MQS	02/09/2010
o-Xylene	EPA 8260	850	25	ug/L	MQS	02/09/2010
Styrene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Bromoform	EPA 8260	<50	50	ug/L	MQS	02/09/2010
Isopropylbenzene	EPA 8260	290	25	ug/L	MQS	02/09/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,2,3-Trichloropropane	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Bromobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
N-Propylbenzene	EPA 8260	69	25	ug/L	MQS	02/09/2010
2-Chlorotoluene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,3,5-Trimethylbenzene	EPA 8260	110	25	ug/L	MQS	02/09/2010
4-Chlorotoluene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
tert-Butylbenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,2,4-Trimethylbenzene	EPA 8260	430	25	ug/L	MQS	02/09/2010
sec-Butylbenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
p-Isopropyltoluene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,3-Dichlorobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **B-5**

Sample No.: **007**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,4-Dichlorobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
n-Butylbenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,2-Dichlorobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<130	130	ug/L	MQS	02/09/2010
1,2,4-Trichlorobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Hexachlorobutadiene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Naphthalene	EPA 8260	59	50	ug/L	MQS	02/09/2010
1,2,3-Trichlorobenzene	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	99.2	70-130	% R	MQS	02/09/2010
***Toluene-D8	EPA 8260	102	70-130	% R	MQS	02/09/2010
***4-Bromofluorobenzene	EPA 8260	99.9	70-130	% R	MQS	02/09/2010
Preparation	EPA 5030B	25		CF	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **TBLK 020410**

Sample No.: **008**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				MQS	02/09/2010
Dichlorodifluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Vinyl Chloride	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromomethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Trichlorofluoromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Diethylether	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010
Acetone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,1-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Freon 113	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Carbon Disulfide	EPA 8260	<10	10	ug/L	MQS	02/09/2010
Dichloromethane	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
tert-Butyl alcohol (TBA)	EPA 8260	<25	25	ug/L	MQS	02/09/2010
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
trans-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Di-isopropyl ether (DIPE)	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Ethyl tert-butyl ether ETBE	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
2-Butanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
2,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
cis-1,2-Dichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Chloroform	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Tetrahydrofuran	EPA 8260	<10	10	ug/L	MQS	02/09/2010
1,1,1-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Carbon Tetrachloride	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Benzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
tert-Amyl methyl ether TAME	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Trichloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,4-Dioxane	EPA 8260	<100	100	ug/L	MQS	02/09/2010
1,2-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromodichloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **TBLK 020410**

Sample No.: **008**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Dibromomethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
4-Methyl-2-Pentanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
cis-1,3-Dichloropropene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Toluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
trans-1,3-Dichloropropene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
1,1,2-Trichloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
2-Hexanone	EPA 8260	<25	25	ug/L	MQS	02/09/2010
1,3-Dichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Tetrachloroethene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Dibromochloromethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Chlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Ethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
m&p-Xylene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
o-Xylene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Styrene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromoform	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
Isopropylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2,3-Trichloropropane	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Bromobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
N-Propylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
2-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,3,5-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
4-Chlorotoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
tert-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2,4-Trimethylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
sec-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
p-Isopropyltoluene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,3-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,4-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
n-Butylbenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	5.0	ug/L	MQS	02/09/2010



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **Phase II ESA - Blue Hill Ave.**
Project No.: **03.0033493.02**

Date Received: **02/05/2010**
Date Reported: **02/16/2010**
Work Order No.: **1002-00049**

Sample ID: **TBLK 020410**

Sample No.: **008**

Sample Date: **02/04/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,2,4-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Hexachlorobutadiene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Naphthalene	EPA 8260	<2.0	2.0	ug/L	MQS	02/09/2010
1,2,3-Trichlorobenzene	EPA 8260	<1.0	1.0	ug/L	MQS	02/09/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	108	70-130	% R	MQS	02/09/2010
***Toluene-D8	EPA 8260	104	70-130	% R	MQS	02/09/2010
***4-Bromofluorobenzene	EPA 8260	101	70-130	% R	MQS	02/09/2010
Preparation	EPA 5030B	1.0		CF	MQS	02/09/2010

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH STREET, HOPKINTON, MA 01748 (781) 278-4700
MASSACHUSETTS LABORATORY I.D. NO. MA092

**MADEP VOLATILE PETROLEUM HYDROCARBONS (VPH) / ME DEP 4.2.17 - GRO / EPA Method 8015B GRO
PURGEABLES IN AQUEOUS AND/OR SOLID MATRIX**

QUALITY CONTROL

DATE: 02/08/10 Aqueous

METHOD BLANK	AQUEOUS	SOLID	
	ug/L-PPB	mg/kg - PPM	
HYDROCARBON FRACTIONS			
C5-C8 Aliphatics	<25	<1.0	
C9-C12 Aliphatics	<25	<1.0	
C9-C10 Aromatics	<25	<1.0	
TARGET COMPOUNDS			
Methyl tert butyl ether	<1.0	<0.10	
Benzene	<1.0	<0.10	
Toluene	<1.0	<0.10	
Ethylbenzene	<1.0	<0.10	
m,p-Xylenes	<2.0	<0.20	
o-Xylene	<1.0	<0.10	
Naphthalene	<2.5	<0.25	
Surrogate:	% Recovery	Limits - Aqueous	Limits - Solid
***2,5-Dibromotoluene (FID)	119	70-130	70-130
***2,5-Dibromotoluene (PID)	110	70-130	70-130

LABORATORY CONTROL SAMPLE/ DUPLICATE LCS	% Recovery LCS	% Recovery LCS-Duplicate	RPD	Limits % Recovery	Limits RPD
HYDROCARBON FRACTIONS					
C5-C8 Aliphatics	103	109	5.19	70-130	<25
C9-C12 Aliphatics	101	109	7.62	70-130	<25
C9-C10 Aromatics	93.1	101	8.40	70-130	<25
TARGET COMPOUNDS					
Methyl tert butyl ether	101	98.7	2.72	70-130	<25
Benzene	93.6	99.2	5.81	70-130	<25
Toluene	90.7	97.0	6.65	70-130	<25
Ethylbenzene	90.7	98.2	7.96	70-130	<25
m,p-Xylenes	98.0	106	8.09	70-130	<25
o-Xylene	87.8	94.8	7.62	70-130	<25
Naphthalene	101	98.4	2.73	70-130	<25
Surrogate:					
***2,5-Dibromotoluene (FID)	103	111			
***2,5-Dibromotoluene (PID)	105	105			

Method Blank

Date Analyzed:	2/9/2010	
Volatiles	Conc. ug/L	Acceptance Limit
dichlorodifluoromethane	< 1.0	< 1.0
chloromethane	< 1.0	< 1.0
vinyl chloride	< 0.5	< 0.5
bromomethane	< 1.0	< 1.0
chloroethane	< 0.5	< 0.5
trichlorofluoromethane	< 1.0	< 1.0
diethyl ether	< 2.5	< 2.5
acetone	< 13	< 13
1,1-dichloroethene	< 0.5	< 0.5
FREON-113	< 1.0	< 1.0
carbon disulfide	< 5.0	< 5.0
dichloromethane	< 1.0	< 1.0
tert-butyl alcohol (TBA)	< 13	< 13
methyl-tert-butyl-ether	< 0.5	< 0.5
trans-1,2-dichloroethene	< 0.5	< 0.5
1,1-dichloroethane	< 0.5	< 0.5
di-isopropyl ether (DIPE)	< 1.0	< 1.0
ethyl tert-butyl ether (EtBE)	< 1.0	< 1.0
2-butanone	< 13	< 13
2,2-dichloropropane	< 0.5	< 0.5
cis-1,2-dichloroethene	< 0.5	< 0.5
chloroform	< 0.5	< 0.5
bromochloromethane	< 0.5	< 0.5
tetrahydrofuran	7.4	< 5.0
1,1,1-trichloroethane	< 0.5	< 0.5
1,1-dichloropropene	< 0.5	< 0.5
carbon tetrachloride	< 0.5	< 0.5
1,2-dichloroethane	< 0.5	< 0.5
benzene	< 0.5	< 0.5
tert-amyl methyl ether (TAME)	< 1.0	< 1.0
trichloroethene	< 0.5	< 0.5
1,2-dichloropropane	< 0.5	< 0.5
bromodichloromethane	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50
dibromomethane	< 0.5	< 0.5
4-methyl-2-pentanone	< 13	< 13
cis-1,3-dichloropropene	< 0.5	< 0.5
toluene	< 0.5	< 0.5
trans-1,3-dichloropropene	< 1.0	< 1.0
1,1,2-trichloroethane	< 0.5	< 0.5
2-hexanone	< 13	< 13
1,3-dichloropropane	< 0.5	< 0.5
tetrachloroethene	< 0.5	< 0.5
dibromochloromethane	< 0.5	< 0.5
1,2-dibromoethane (EDB)	< 1.0	< 1.0
chlorobenzene	< 0.5	< 0.5
1,1,1,2-tetrachloroethane	< 0.5	< 0.5
ethylbenzene	< 0.5	< 0.5
1,1,2,2-tetrachloroethane	< 0.5	< 0.5
m&p-xylene	< 1.0	< 1.0
o-xylene	< 0.5	< 0.5
styrene	< 0.5	< 0.5
bromoform	< 1.0	< 1.0
isopropylbenzene	< 0.5	< 0.5
1,2,3-trichloropropane	< 0.5	< 0.5
bromobenzene	< 0.5	< 0.5
n-propylbenzene	< 0.5	< 0.5
2-chlorotoluene	< 0.5	< 0.5
1,3,5-trimethylbenzene	< 0.5	< 0.5
4-chlorotoluene	< 0.5	< 0.5
tert-butyl-benzene	< 0.5	< 0.5
1,2,4-trimethylbenzene	< 0.5	< 0.5
sec-butyl-benzene	< 0.5	< 0.5
p-isopropyltoluene	< 0.5	< 0.5
1,3-dichlorobenzene	< 0.5	< 0.5
1,4-dichlorobenzene	< 0.5	< 0.5
n-butylbenzene	< 0.5	< 0.5
1,2-dichlorobenzene	< 0.5	< 0.5
1,2-dibromo-3-chloropropane	< 2.5	< 2.5
1,2,4-trichlorobenzene	< 0.5	< 0.5
hexachlorobutadiene	< 1.0	< 1.0
naphthalene	< 0.5	< 0.5
1,2,3-trichlorobenzene	< 0.5	< 0.5

Laboratory Control Sample

Date Analyzed:	2/9/2010	
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits
dichlorodifluoromethane	123	70-130
chloromethane	94.6	70-130
vinyl chloride	90.0	80-120
bromomethane	92.9	70-130
chloroethane	101	70-130
trichlorofluoromethane	108	70-130
diethyl ether	89.2	70-130
acetone	97.4	70-130
1,1-dichloroethene	90.7	80-120
FREON-113	104	70-130
carbon disulfide	99.7	70-130
dichloromethane	84.4	70-130
tert-butyl alcohol (TBA)	93.8	70-130
methyl-tert-butyl-ether	92.2	70-130
trans-1,2-dichloroethene	94.0	70-130
1,1-dichloroethane	150	70-130
di-isopropyl ether (DIPE)	161	70-130
ethyl tert-butyl ether (EtBE)	95.6	70-130
2-butanone	91.6	70-130
2,2-dichloropropane	99.8	70-130
cis-1,2-dichloroethene	89.0	70-130
chloroform	96.0	80-120
bromochloromethane	93.4	70-130
tetrahydrofuran	120	70-130
1,1,1-trichloroethane	95.4	70-130
1,1-dichloropropene	97.9	70-130
carbon tetrachloride	96.9	70-130
1,2-dichloroethane	95.1	70-130
benzene	99.2	70-130
tert-amyl methyl ether (TAME)	93.2	70-130
trichloroethene	92.8	70-130
1,2-dichloropropane	98.3	80-120
bromodichloromethane	94.2	70-130
1,4-Dioxane	86.0	70-130
dibromomethane	92.3	70-130
4-methyl-2-pentanone	99.9	70-130
cis-1,3-dichloropropene	97.0	70-130
toluene	99.4	80-120
trans-1,3-dichloropropene	90.5	70-130
1,1,2-trichloroethane	86.9	70-130
2-hexanone	97.8	70-130
1,3-dichloropropane	92.0	70-130
tetrachloroethene	92.3	70-130
dibromochloromethane	89.1	70-130
1,2-dibromoethane (EDB)	87.9	70-130
chlorobenzene	92.4	70-130
1,1,1,2-tetrachloroethane	88.2	70-130
ethylbenzene	98.8	80-120
1,1,2,2-tetrachloroethane	90.0	70-130
m&p-xylene	99.0	70-130
o-xylene	103	70-130
styrene	104	70-130
bromoform	95.0	70-130
isopropylbenzene	138	70-130
1,2,3-trichloropropane	93.0	70-130
bromobenzene	101	70-130
n-propylbenzene	111	70-130
2-chlorotoluene	101	70-130
1,3,5-trimethylbenzene	108	70-130
4-chlorotoluene	103	70-130
tert-butyl-benzene	103	70-130
1,2,4-trimethylbenzene	107	70-130
sec-butyl-benzene	104	70-130
p-isopropyltoluene	106	70-130
1,3-dichlorobenzene	100	70-130
1,4-dichlorobenzene	100	70-130
n-butylbenzene	111	70-130
1,2-dichlorobenzene	97.3	70-130
1,2-dibromo-3-chloropropane	92.6	70-130
1,2,4-trichlorobenzene	103	70-130
hexachlorobutadiene	113	70-130
naphthalene	103	70-130
1,2,3-trichlorobenzene	109	70-130

Laboratory Control Sample Duplicate

Date Analyzed:	2/9/2010					
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict
dichlorodifluoromethane	135	70-130	out	8.95	<25	ok
chloromethane	102	70-130	ok	7.18	<25	ok
vinyl chloride	95.6	70-130	ok	6.10	<25	ok
bromomethane	102	70-130	ok	9.41	<25	ok
chloroethane	103	70-130	ok	2.38	<25	ok
trichlorofluoromethane	110	70-130	ok	2.08	<25	ok
diethyl ether	96.0	70-130	ok	7.25	<25	ok
acetone	105	70-130	ok	7.66	<25	ok
1,1-dichloroethene	97.4	70-130	ok	7.16	<25	ok
FREON-113	112	70-130	ok	7.07	<25	ok
carbon disulfide	104	70-130	ok	4.32	<25	ok
dichloromethane	87.3	70-130	ok	3.46	<25	ok
tert-butyl alcohol (TBA)	97.7	70-130	ok	4.08	<25	ok
methyl-tert-butyl-ether	95.1	70-130	ok	3.12	<25	ok
trans-1,2-dichloroethene	94.9	70-130	ok	0.90	<25	ok
1,1-dichloroethane	103	70-130	ok	36.7	<25	out
di-isopropyl ether (DIPE)	115	70-130	ok	33.2	<25	out
ethyl tert-butyl ether (EtBE)	105	70-130	ok	9.24	<25	ok
2-butanone	98.8	70-130	ok	7.63	<25	ok
2,2-dichloropropane	104	70-130	ok	4.49	<25	ok
cis-1,2-dichloroethene	92.7	70-130	ok	4.09	<25	ok
chloroform	109.1	70-130	ok	3.20	<25	ok
bromochloromethane	100	70-130	ok	7.18	<25	ok
tetrahydrofuran	164	70-130	out	30.9	<25	out
1,1,1-trichloroethane	99.1	70-130	ok	3.89	<25	ok
1,1-dichloropropene	102	70-130	ok	3.76	<25	ok
carbon tetrachloride	99.4	70-130	ok	2.57	<25	ok
1,2-dichloroethane	101	70-130	ok	5.60	<25	ok
benzene	103	70-130	ok	3.83	<25	ok
tert-amyl methyl ether (TAME)	102	70-130	ok	8.64	<25	ok
trichloroethene	98.6	70-130	ok	6.04	<25	ok
1,2-dichloropropane	102	70-130	ok	4.03	<25	ok
bromodichloromethane	101	70-130	ok	7.04	<25	ok
1,4-Dioxane	110	70-130	ok	24.9	<25	ok
dibromomethane	102	70-130	ok	9.79	<25	ok
4-methyl-2-pentanone	109	70-130	ok	9.09	<25	ok
cis-1,3-dichloropropene	105	70-130	ok	7.51	<25	ok
toluene	104	70-130	ok	4.34	<25	ok
trans-1,3-dichloropropene	99.3	70-130	ok	9.26	<25	ok
1,1,2-trichloroethane	91.4	70-130	ok	5.07	<25	ok
2-hexanone	108	70-130	ok	9.57	<25	ok
1,3-dichloropropane	99.7	70-130	ok	7.98	<25	ok
tetrachloroethene	95.7	70-130	ok	3.61	<25	ok
dibromochloromethane	96.9	70-130	ok	8.46	<25	ok
1,2-dibromoethane (EDB)	95.8	70-130	ok	8.57	<25	ok
chlorobenzene	96.7	70-130	ok	4.56	<25	ok
1,1,1,2-tetrachloroethane	94.0	70-130	ok	6.43	<25	ok
ethylbenzene	103	70-130	ok	4.49	<25	ok
1,1,2,2-tetrachloroethane	99.7	70-130	ok	10.3	<25	ok
m&p-xylene	103	70-130	ok	3.95	<25	ok
o-xylene	104	70-130	ok	0.85	<25	ok
styrene	107	70-130	ok	2.94	<25	ok
bromoform	102	70-130	ok	6.85	<25	ok
isopropylbenzene	141	70-130	out	2.03	<25	ok
1,2,3-trichloropropane	98.3	70-130	ok	5.53	<25	ok
bromobenzene	105	70-130	ok	4.05	<25	ok
n-propylbenzene	112	70-130	ok	1.37	<25	ok
2-chlorotoluene	103	70-130	ok	2.25	<25	ok
1,3,5-trimethylbenzene	110	70-130	ok	1.89	<25	ok
4-chlorotoluene	106	70-130	ok	2.41	<25	ok
tert-butyl-benzene	102	70-130	ok	1.04	<25	ok
1,2,4-trimethylbenzene	109	70-130	ok	1.70	<25	ok
sec-butyl-benzene	104	70-130	ok	0.62	<25	ok
p-isopropyltoluene	108	70-130	ok	1.20	<25	ok
1,3-dichlorobenzene	102	70-130	ok	1.97	<25	ok
1,4-dichlorobenzene	104	70-130	ok	3.50	<25	ok
n-butylbenzene	111	70-130	ok	0.23	<25	ok
1,2-dichlorobenzene	102	70-130	ok	4.44	<25	ok
1,2-dibromo-3-chloropropane	106	70-130	ok	13.3	<25	ok
1,2,4-trichlorobenzene	105	70-130	ok	1.66	<25	ok
hexachlorobutadiene	112	70-130	ok	1.41	<25	ok
naphthalene	116	70-130	ok	11.3	<25	ok
1,2,3-trichlorobenzene	115	70-130	ok	5.44	<25	ok

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Limit	Verdict
DIBROMOFLUOROMETHANE	107	70-130	DIBROMOFLUOROMETHANE	103	70-130	ok	103	70-130	ok	0.42	<25	ok
1,2-DICHLOROETHANE-D4	105	70-130	1,2-DICHLOROETHANE-D4	101	70-130	ok	109	70-130	ok	7.54	<25	ok
TOLUENE-D8	103	70-130	TOLUENE-D8	108	70-130	ok	108	70-130	ok	0.11	<25	ok
4-BROMOFLUOROBENZENE	98.0	70-130	4-BROMOFLUOROBENZENE	109	70-130	ok	108	70-130	ok	1.15	<25	ok
1,2-DICHLOROBENZENE-D4	94.0	70-130	1,2-DICHLOROBENZENE-D4	111	70-130	ok	109	70-130	ok	2.03	<25	ok

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH STREET, HOPKINTON, MA 01748 (781) 278-4710
MASSACHUSETTS LABORATORY I.D. NO. MA092

**MADEP EPH
EXTRACTABLES IN AQUEOUS AND/OR SOLID MATRIX**

QUALITY CONTROL

EXT. DATE: 02/11/10

Aqueous

Page 1 of 2

METHOD BLANK	AQUEOUS	SOLID
	ug/L-PPB	mg/kg - PPM
UNWEIGHTED CONC.		
C9-C18 Aliphatics	<100	<5.0
C19-C36 Aliphatics	<100	<5.0
C10-C22 Aromatics	<100	<5.0
C10-C22 Aromatics (adjusted)	<100	<5.0
TARGET COMPOUNDS		
Naphthalene	<5.0	<0.30
2-Methylnaphthalene	<5.0	<0.30
Acenaphthylene	<5.0	<0.30
Acenaphthene	<5.0	<0.30
Fluorene	<5.0	<0.30
Phenanthrene	<5.0	<0.30
Anthracene	<5.0	<0.30
Fluoranthene	<5.0	<0.30
Pyrene	<5.0	<0.30
Benzo(a)anthracene	<5.0	<0.30
Chrysene	<5.0	<0.30
Benzo(b)fluoranthene	<5.0	<0.30
Benzo(k)fluoranthene	<5.0	<0.30
Benzo(a)pyrene	<5.0	<0.30
Indeno(1,2,3-c,d)pyrene	<5.0	<0.30
Dibenzo(a,h)anthracene	<5.0	<0.30
Benzo(g,h,i)perylene	<5.0	<0.30
Surrogate:	Recovery (%)	Acceptance Limits
***1-Chlorooctadecane (Aliphatic)	66.9	40-140
***Terphenyl (Aromatic)	78.6	40-140
Fractionation Surrogate:		
***2-Bromonaphthalene	99.5	40-140

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**MADEP EPH
 EXTRACTABLES IN AQUEOUS AND/OR SOLID MATRIX**

QUALITY CONTROL

EXT. DATE: 02/11/10

Aqueous

Page 2 of 2

LABORATORY CONTROL SAMPLE / DUPLICATE LCS	LCS Recovery (%)	LCS Dup Recovery (%)	Limits	RPD	Limits
Carbon Ranges:					
C9-C18 Aliphatic Fraction	41.2	41.4	40-140	0.48	< 25
C19-C36 Aliphatic Fraction	59.0	60.0	40-140	1.68	< 25
C10-C22 Aromatic Fraction	54.8	56.9	40-140	3.79	< 25
Aromatics:					
Naphthalene	49.5	52.4	40-140	5.73	< 25
2-Methylnaphthalene	49.6	53.8	40-140	8.22	< 25
Acenaphthylene	52.0	57.3	40-140	9.76	< 25
Acenaphthene	58.9	63.6	40-140	7.64	< 25
Fluorene	55.7	58.6	40-140	5.04	< 25
Phenanthrene	60.5	64.1	40-140	5.81	< 25
Anthracene	57.0	60.8	40-140	6.57	< 25
Fluoranthene	60.5	64.0	40-140	5.54	< 25
Pyrene	51.9	50.1	40-140	3.57	< 25
Benzo(a)anthracene	58.8	59.3	40-140	0.85	< 25
Chrysene	62.2	63.3	40-140	1.75	< 25
Benzo(b)fluoranthene	57.4	58.7	40-140	2.24	< 25
Benzo(k)fluoranthene	58.2	59.1	40-140	1.53	< 25
Benzo(a)pyrene	55.3	56.5	40-140	2.15	< 25
Indeno(1,2,3-c,d)pyrene	42.1	43.1	40-140	2.35	< 25
Dibenzo(a,h)anthracene	53.6	54.4	40-140	1.48	< 25
Benzo(g,h,i)perylene	48.2	48.2	40-140	0.00	< 25
Surrogates:					
***1-Chlorooctadecane (Aliphatic)	72.7	63.4	40-130		
***Terphenyl (Aromatic)	71.9	73.1	40-130		
Fractionation Surrogate:					
***2-Bromonaphthalene	91.1	91.9	40-140		
FRACTIONATION CHECKS	STANDARD (pass/fail)	COLUMN LOT NO.	LCS % in Aliphatic	LCSD % in Aliphatic	Acceptance Limit
Cartridge check	pass	S212-12			
Naphthalene			0.0	0.0	< 5
2-Methylnaphthalene			0.0	0.0	< 5

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**MADEP EPH
 EXTRACTABLES IN AQUEOUS AND/OR SOLID MATRIX**

QUALITY CONTROL

EXT. DATE: 02/12/10

Aqueous

Page 1 of 2

METHOD BLANK	AQUEOUS	SOLID
	ug/L-PPB	mg/kg - PPM
UNWEIGHTED CONC.		
C9-C18 Aliphatics	<100	<5.0
C19-C36 Aliphatics	<100	<5.0
C10-C22 Aromatics	<100	<5.0
C10-C22 Aromatics (adjusted)	<100	<5.0
TARGET COMPOUNDS		
Naphthalene	<5.0	<0.30
2-Methylnaphthalene	<5.0	<0.30
Acenaphthylene	<5.0	<0.30
Acenaphthene	<5.0	<0.30
Fluorene	<5.0	<0.30
Phenanthrene	<5.0	<0.30
Anthracene	<5.0	<0.30
Fluoranthene	<5.0	<0.30
Pyrene	<5.0	<0.30
Benzo(a)anthracene	<5.0	<0.30
Chrysene	<5.0	<0.30
Benzo(b)fluoranthene	<5.0	<0.30
Benzo(k)fluoranthene	<5.0	<0.30
Benzo(a)pyrene	<5.0	<0.30
Indeno(1,2,3-c,d)pyrene	<5.0	<0.30
Dibenzo(a,h)anthracene	<5.0	<0.30
Benzo(g,h,i)perylene	<5.0	<0.30
Surrogate:	Recovery (%)	Acceptance Limits
***1-Chlorooctadecane (Aliphatic)	86.1	40-140
***Terphenyl (Aromatic)	101	40-140
Fractionation Surrogate:		
***2-Bromonaphthalene	115	40-140

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**MADEP EPH
EXTRACTABLES IN AQUEOUS AND/OR SOLID MATRIX**

QUALITY CONTROL

EXT. DATE: 02/12/10

Aqueous

Page 2 of 2

LABORATORY CONTROL SAMPLE / DUPLICATE LCS	LCS Recovery (%)	LCS Dup Recovery (%)	Limits	RPD	Limits
Carbon Ranges:					
C9-C18 Aliphatic Fraction	42.9	49.3	40-140	13.9	< 25
C19-C36 Aliphatic Fraction	60.4	72.4	40-140	18.1	< 25
C10-C22 Aromatic Fraction	65.2	75.3	40-140	14.4	< 25
Aromatics:					
Naphthalene	51.6	60.7	40-140	16.2	< 25
2-Methylnaphthalene	54.2	61.7	40-140	12.9	< 25
Acenaphthylene	58.5	66.8	40-140	13.2	< 25
Acenaphthene	63.7	72.2	40-140	12.5	< 25
Fluorene	61.5	70.8	40-140	14.1	< 25
Phenanthrene	70.9	82.0	40-140	14.5	< 25
Anthracene	69.7	79.6	40-140	13.3	< 25
Fluoranthene	71.7	81.6	40-140	12.9	< 25
Pyrene	79.9	89.6	40-140	11.4	< 25
Benzo(a)anthracene	72.9	83.4	40-140	13.4	< 25
Chrysene	79.5	88.2	40-140	10.4	< 25
Benzo(b)fluoranthene	69.0	81.3	40-140	16.4	< 25
Benzo(k)fluoranthene	71.4	82.5	40-140	14.4	< 25
Benzo(a)pyrene	70.3	80.2	40-140	13.2	< 25
Indeno(1,2,3-c,d)pyrene	50.5	60.6	40-140	18.2	< 25
Dibenzo(a,h)anthracene	56.9	74.6	40-140	26.9	< 25
Benzo(g,h,i)perylene	55.4	63.9	40-140	14.2	< 25
Surrogates:					
***1-Chlorooctadecane (Aliphatic)	64.5	81.2	40-130		
***Terphenyl (Aromatic)	105	129	40-130		
Fractionation Surrogate:					
***2-Bromonaphthalene	94.0	103	40-140		
FRACTIONATION CHECKS	STANDARD (pass/fail)	COLUMN LOT NO.	LCS % in Aliphatic	LCSD % in Aliphatic	Acceptance Limit
Cartridge check	pass	S212-12			
Naphthalene			0.0	0.0	< 5
2-Methylnaphthalene			0.0	0.0	< 5

W.O. # 11111-11111
(for lab use only)

(for lab use only)

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4 ° C)
*Specify "Other" preservatives and containers types in this space.

RELINQUISHED BY: (AFFILIATION) DATE/TIME / RECEIVED BY: (AFFILIATION)

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SHEET 1 OF 1



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project No.: **03.0033493.04**
Work Order No.: **1011-00046**
Date Received: **11/05/2010**
Date Reported: **11/12/2010**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
11/05/2010	Aqueous	1011-00046 001	B-5

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ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **MCHC Blue Hill Ave**

Project No.: **03.0033493.04**

Date Received: **11/05/2010**

Date Reported: **11/12/2010**

Work Order No.: **1011-00046**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 11/05/10 via __GZA courier, __EC, __FEDEX, or __x hand delivered. The temperature of the __x temperature blank/ __cooler air, was 3.9 degrees C. The temperature requirement for most analyses is above freezing to 6 degrees C. The samples were received intact for all requested analyses.

The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference. Soil samples for high level VOC analysis were received preserved in methanol.

2. Subcontracted Analyses

Analyses for TPH, EDB, Cadmium, TSS, TRC, Cyanide, PAH & PCP - SIM, PCB were performed by ESS Laboratory, Cranston, RI.

3. EPA Method 8260 - VOCs

The reporting limit (RL) for 1,4-dioxane is elevated due to the poor analytical sensitivity of this analyte. If 1,4-dioxane is a contaminant of concern, the MA CAM requires special analytical techniques be used.

The elevated reporting limits for sample B-5 (1011-00046-001) are due to initial dilution of the sample in order to get target compounds within the calibration range of the instrument. The dilution was based upon screening data for the sample.

The following analyte(s) in the lowest ICAL (Initial Calibration) standard did not meet the minimum RF criteria specified in Table 4 of Method 8260C, but were above 0.050: acetone (0.080).

The following analytes in the CCV did not meet the minimum RF criteria specified in Table 4 of Method 8260C, but were above 0.050: acetone (0.072).

The Continuing Calibration Verification Standard (CCV) (11/8/2010 S) had a(n) MA MCP 8260 List analyte outside of the 80-120% acceptance criteria. Specific outlier includes: diethyl ether (76%). MA CAM permits up to 14 outliers if within 60-140%.

Attach QC 8260 11/8/2010 (2) "S" - Aqueous

4. Method SM 18 3500 Cr(D) - Hexavalent Chromium

Attach QC 11/05/10 - Aqueous

5. EPA Method 300.0 - Anions

Attach QC 300.0 11/08/10 - Aqueous
Attach QC 300.0 11/10/10 B- Aqueous

6. EPA Method 6010C/7470A - Metals



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Page 3 of 9

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **MCHC Blue Hill Ave**

Project No.: **03.0033493.04**

Date Received: **11/05/2010**

Date Reported: **11/12/2010**

Work Order No.: **1011-00046**

Attach QC 6010C 11/09/10 - Aqueous

Attach QC 7470A 11/10/10 - Aqueous

7. EPA Method 8270 - SVOCs

The following analyte in the CCV (11/1010 I) did not meet the minimum RF criteria specified in Table 4 of Method 8270D, but was above 0.050: 2-Chloronaphthalene (0.661).

The Laboratory Control Sample (LCS) (11/8/2010 I) had MA RCP 8270 List analytes outside of the 40-140% (Base/Neutral Extractables) / 30-130% (Acid Extractables) acceptance criteria. Specific outliers include: phenol (29.8%) and hexachlorobutadiene (39.9%).

The Laboratory Control Sample Duplicate (LCSD) (11/8/2010 I) had a(n) MA RCP 8270 List analyte outside of the 40-140% (Base/Neutral Extractables) / 30-130% (Acid Extractables) acceptance criteria. Specific outlier includes: 4-nitrophenol (36.8%).

The Relative Percent Difference between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) (11/8/2010 I) had MA RCP 8270 List analytes outside of the <20 acceptance criteria. Specific outliers include: 2,4-dinitrophenol (27%), pentachlorophenol (21.1%), 3,3'-dichlorobenzidine (22.2%), and benzo [k] fluoranthene (21.9%).

Attach QC 8270 11/8/2010 "I" - Aqueous



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Page 4 of 9

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **MCHC Blue Hill Ave**

Project No.: **03.0033493.04**

Date Received: **11/05/2010**

Date Reported: **11/12/2010**

Work Order No.: **1011-00046**



Digitally signed by
Andrew Yaroshefski
Date: 2010.11.12
17:34:29 -05'00'

Data Authorized By: _____

NELAC certification, as indicated by the NELAC Lab ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:

% R = % Recovery

DF = Dilution Factor

DFS = Dilution Factor Solids

CF = Calculation Factor

DO = Diluted Out

Method Key:

Method 8260: The current version of the method is 8260B.

Method 8270: The current version of the method is 8270D.

Method 6010: The current version of the method is 6010C.

Please note that the laboratory signed copy of the chain of custody record is an integral part of the data report.

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Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.



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Page 5 of 9

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **MCHC Blue Hill Ave**

Project No.: **03.0033493.04**

Date Received: **11/05/2010**

Date Reported: **11/12/2010**

Work Order No.: **1011-00046**

Sample ID: **B-5**

Sample No.: **001**

Sample Date: **11/05/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260				KAC	11/09/2010
Dichlorodifluoromethane	EPA 8260	<10	10	ug/L	KAC	11/09/2010
Chloromethane	EPA 8260	<10	10	ug/L	KAC	11/09/2010
Vinyl chloride	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Bromomethane	EPA 8260	<10	10	ug/L	KAC	11/09/2010
Chloroethane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Trichlorofluoromethane	EPA 8260	<10	10	ug/L	KAC	11/09/2010
Diethylether	EPA 8260	<10	10	ug/L	KAC	11/09/2010
Acetone	EPA 8260	<50	50	ug/L	KAC	11/09/2010
1,1-Dichloroethene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Dichloromethane	EPA 8260	<10	10	ug/L	KAC	11/09/2010
Methyl tert-butyl ether	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
trans-1,2-Dichloroethene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
1,1-Dichloroethane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
2-Butanone (MEK)	EPA 8260	<50	50	ug/L	KAC	11/09/2010
2,2-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
cis-1,2-Dichloroethene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Chloroform	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Bromochloromethane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Tetrahydrofuran	EPA 8260	<50	50	ug/L	KAC	11/09/2010
1,1,1-Trichloroethane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
1,1-Dichloropropene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Carbon tetrachloride	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
1,2-Dichloroethane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Benzene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Trichloroethene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
1,2-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Bromodichloromethane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Dibromomethane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
4-Methyl-2-pentanone (MIBK)	EPA 8260	<50	50	ug/L	KAC	11/09/2010
cis-1,3-Dichloropropene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Toluene	EPA 8260	840	5.0	ug/L	KAC	11/09/2010
trans-1,3-Dichloropropene	EPA 8260	<10	10	ug/L	KAC	11/09/2010
1,1,2-Trichloroethane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
2-Hexanone	EPA 8260	<50	50	ug/L	KAC	11/09/2010



GZA GeoEnvironmental, Inc.
106 South Street
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(781) 278-4700

Page 6 of 9

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
530 Broadway
Providence, RI 02909

Mike Clark

Project Name.: **MCHC Blue Hill Ave**

Project No.: **03.0033493.04**

Date Received: **11/05/2010**

Date Reported: **11/12/2010**

Work Order No.: **1011-00046**

Sample ID: **B-5**

Sample No.: **001**

Sample Date: **11/05/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
1,3-Dichloropropane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Tetrachloroethene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Dibromochloromethane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
1,2-Dibromoethane (EDB)	EPA 8260	<10	10	ug/L	KAC	11/09/2010
Chlorobenzene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
1,1,1,2-Tetrachloroethane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Ethylbenzene	EPA 8260	380	5.0	ug/L	KAC	11/09/2010
m&p-Xylene	EPA 8260	1000	10	ug/L	KAC	11/09/2010
o-Xylene	EPA 8260	430	5.0	ug/L	KAC	11/09/2010
Styrene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Bromoform	EPA 8260	<10	10	ug/L	KAC	11/09/2010
Isopropylbenzene	EPA 8260	150	5.0	ug/L	KAC	11/09/2010
1,1,2,2-Tetrachloroethane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
1,2,3-Trichloropropane	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Bromobenzene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
n-Propylbenzene	EPA 8260	50	5.0	ug/L	KAC	11/09/2010
2-Chlorotoluene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
1,3,5-Trimethylbenzene	EPA 8260	77	5.0	ug/L	KAC	11/09/2010
4-Chlorotoluene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
tert-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
1,2,4-Trimethylbenzene	EPA 8260	300	5.0	ug/L	KAC	11/09/2010
sec-Butylbenzene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
p-Isopropyltoluene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
1,3-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
1,4-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
n-Butylbenzene	EPA 8260	6.1	5.0	ug/L	KAC	11/09/2010
1,2-Dichlorobenzene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
1,2-Dibromo-3-chloropropane	EPA 8260	<10	10	ug/L	KAC	11/09/2010
1,2,4-Trichlorobenzene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Hexachlorobutadiene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Naphthalene	EPA 8260	57	10	ug/L	KAC	11/09/2010
1,2,3-Trichlorobenzene	EPA 8260	<5.0	5.0	ug/L	KAC	11/09/2010
Surrogates:	EPA 8260					
***1,2-Dichloroethane-D4	EPA 8260	90.4	70-130	% R	KAC	11/09/2010
***Toluene-D8	EPA 8260	102	70-130	% R	KAC	11/09/2010



GZA GeoEnvironmental, Inc.
106 South Street
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Page 7 of 9

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Project Name.: **MCHC Blue Hill Ave**

Project No.: **03.0033493.04**

Date Received: **11/05/2010**

Date Reported: **11/12/2010**

Work Order No.: **1011-00046**

Sample ID: **B-5**

Sample No.: **001**

Sample Date: **11/05/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
***4-Bromofluorobenzene	EPA 8260	103	70-130	% R	KAC	11/09/2010
Preparation	EPA 5030B	5.0		CF	KAC	11/08/2010
SEMI-VOLATILE ORGANICS	EPA 8270				RJD	11/10/2010
Phenol	EPA 8270	<10	10	ug/L	RJD	11/10/2010
2-Chlorophenol	EPA 8270	<10	10	ug/L	RJD	11/10/2010
2-Methylphenol	EPA 8270	<10	10	ug/L	RJD	11/10/2010
3&4-Methylphenol	EPA 8270	<10	10	ug/L	RJD	11/10/2010
2-Nitrophenol	EPA 8270	<10	10	ug/L	RJD	11/10/2010
2,4-Dimethylphenol	EPA 8270	<10	10	ug/L	RJD	11/10/2010
2,4-Dichlorophenol	EPA 8270	<10	10	ug/L	RJD	11/10/2010
2,4,6-Trichlorophenol	EPA 8270	<10	10	ug/L	RJD	11/10/2010
2,4,5-Trichlorophenol	EPA 8270	<10	10	ug/L	RJD	11/10/2010
2,4-Dinitrophenol	EPA 8270	<100	100	ug/L	RJD	11/10/2010
4-Nitrophenol	EPA 8270	<50	50	ug/L	RJD	11/10/2010
Pentachlorophenol	EPA 8270	<50	50	ug/L	RJD	11/10/2010
bis(2-Chloroethyl)Ether	EPA 8270	<10	10	ug/L	RJD	11/10/2010
1,3-Dichlorobenzene	EPA 8270	<10	10	ug/L	RJD	11/10/2010
1,4-Dichlorobenzene	EPA 8270	<10	10	ug/L	RJD	11/10/2010
1,2-Dichlorobenzene	EPA 8270	<10	10	ug/L	RJD	11/10/2010
bis(2-Chloroisopropyl)Ether	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Acetophenone	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Hexachloroethane	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Nitrobenzene	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Isophorone	EPA 8270	<10	10	ug/L	RJD	11/10/2010
bis(2-Chloroethoxy)Methane	EPA 8270	<10	10	ug/L	RJD	11/10/2010
1,2,4-Trichlorobenzene	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Naphthalene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
4-Chloroaniline	EPA 8270	<20	20	ug/L	RJD	11/10/2010
Hexachlorobutadiene	EPA 8270	16	10	ug/L	RJD	11/10/2010
2-Methylnaphthalene	EPA 8270	2.3	2.0	ug/L	RJD	11/10/2010
Aniline	EPA 8270	<10	10	ug/L	RJD	11/10/2010
2-Chloronaphthalene	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Dimethylphthalate	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Acenaphthylene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
2,6-Dinitrotoluene	EPA 8270	<10	10	ug/L	RJD	11/10/2010



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Sample ID: **B-5**

Sample No.: **001**

Sample Date: **11/05/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
Acenaphthene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
Dibenzofuran	EPA 8270	<10	10	ug/L	RJD	11/10/2010
2,4-Dinitrotoluene	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Diethylphthalate	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Fluorene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
Azobenzene	EPA 8270	<10	10	ug/L	RJD	11/10/2010
4-Bromophenyl Phenyl Ether	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Hexachlorobenzene	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Phenanthrene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
Anthracene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
di-n-Butylphthalate	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Fluoranthene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
Pyrene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
Butylbenzylphthalate	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Benzo [a] Anthracene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
3,3'-Dichlorobenzidine	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Chrysene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
bis(2-Ethylhexyl)Phthalate	EPA 8270	<10	10	ug/L	RJD	11/10/2010
di-n-Octylphthalate	EPA 8270	<10	10	ug/L	RJD	11/10/2010
Benzo [b] Fluoranthene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
Benzo [k] Fluoranthene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
Benzo [a] Pyrene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
Indeno [1,2,3-cd] Pyrene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
Dibenzo [a,h] Anthracene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
Benzo [g,h,i] Perylene	EPA 8270	<2.0	2.0	ug/L	RJD	11/10/2010
Surrogates:	EPA 8270					
***2-Fluorophenol	EPA 8270	21.9	15-110	% R	RJD	11/10/2010
***Phenol-D6	EPA 8270	15.4	15-110	% R	RJD	11/10/2010
***Nitrobenzene-D5	EPA 8270	35.7	30-130	% R	RJD	11/10/2010
***2-Fluorobiphenyl	EPA 8270	35.5	30-130	% R	RJD	11/10/2010
***2,4,6-Tribromophenol	EPA 8270	40.8	15-110	% R	RJD	11/10/2010
***P-Terphenyl-D14	EPA 8270	52.3	39-120	% R	RJD	11/10/2010
Extraction	EPA 3510C	1.0		DF	LRB	11/08/2010
ANIONS - ION CHROMATOGRAPHY	EPA 300.0				TAJ	11/10/2010
Chloride	EPA 300.0	300	2.0	mg/L	TAJ	11/10/2010



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Page 9 of 9

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Date Reported: **11/12/2010**

Work Order No.: **1011-00046**

Sample ID: **B-5**

Sample No.: **001**

Sample Date: **11/05/2010**

Test Performed	Method	Results	Reporting Limit	Units	Tech	Analysis Date
METALS						
Antimony	EPA 6010C	<0.0025	0.0025	mg/L	LLZ	11/09/2010
Arsenic	EPA 6010C	0.0012	0.0010	mg/L	LLZ	11/10/2010
Chromium	EPA 6010C	0.00070	0.00050	mg/L	LLZ	11/10/2010
Copper	EPA 6010C	<0.0050	0.0050	mg/L	LLZ	11/10/2010
Lead	EPA 6010C	<0.0010	0.0010	mg/L	LLZ	11/10/2010
Mercury	EPA 7470A	<0.00020	0.00020	mg/L	GDD	11/11/2010
Nickel	EPA 6010C	0.0020	0.0010	mg/L	LLZ	11/10/2010
Selenium	EPA 6010C	0.0044	0.0025	mg/L	LLZ	11/10/2010
Silver	EPA 6010C	0.00056	0.00050	mg/L	LLZ	11/10/2010
Zinc	EPA 6010C	0.0054	0.0010	mg/L	LLZ	11/09/2010
Iron	EPA 6010C	0.22	0.010	mg/L	LLZ	11/10/2010
Hexavalent Chromium	SM 3500CrD	<0.010	0.010	mg/L	LLZ	11/05/2010
Trivalent Chromium calc.		<0.10		mg/L	AJY	11/11/2010
SUBCONTRACTED ANALYTES						
TPH via Method 1664	EPA 1664	<5	5	mg/L	XXX	11/09/2010
Ethylene Dibromide (EDB)				mg/L	XXX	
Total Suspended Solids	SM-2540D	<5	5	mg/L	XXX	11/10/2010
Residual Chlorine	SM4500-CL,D	<0.02	0.02	mg/L	XXX	11/05/2010
Total Cyanide	SM-4500CN-C E	0.0077	0.0050	mg/L	XXX	11/08/2010
PCB	EPA 608				XXX	
Cadmium	EPA 6010C	<0.00050	0.00050	mg/L	LLZ	11/10/2010

EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample/Duplicate (LCS/LCSD) Data

Method Blank 2

Date Analyzed:	11/8/2010
Volatile Organics	Conc. ug/L
dichlorodifluoromethane	< 1.0
chloromethane	< 1.0
vinyl chloride	< 0.5
bromomethane	< 1.0
chloroethane	< 0.5
trichlorofluoromethane	< 1.0
diethyl ether	< 2.5
acetone	< 10
1,1-dichloroethene	< 0.5
carbon disulfide	< 5.0
dichloromethane	< 1.0
methyl-tert-butyl-ether	< 0.5
trans-1,2-dichloroethene	< 0.5
1,1-dichloroethane	< 0.5
di-isopropyl ether (DIPE)	< 1.0
ethyl tert-butyl ether (ETBE)	< 1.0
2-butanone	< 10
2,2-dichloropropane	< 0.5
cis-1,2-dichloroethene	< 0.5
chloroform	< 0.5
bromochloromethane	< 0.5
tetrahydrofuran	< 5.0
1,1,1-trichloroethane	< 0.5
1,1-dichloropropene	< 0.5
carbon tetrachloride	< 0.5
1,2-dichloroethane	< 0.5
benzene	< 0.5
tert-amyl methyl ether (TAME)	< 1.0
trichloroethene	< 0.5
1,2-dichloropropane	< 0.5
bromodichloromethane	< 0.5
1,4-Dioxane	< 50
dibromomethane	< 0.5
4-methyl-2-pentanone	< 10
cis-1,3-dichloropropene	< 0.5
toluene	< 0.5
trans-1,3-dichloropropene	< 1.0
1,1,2-trichloroethane	< 0.5
2-hexanone	< 10
1,3-dichloropropane	< 0.5
tetrachloroethene	< 0.5
dibromochloromethane	< 0.5
1,2-dibromoethane (EDB)	< 1.0
chlorobenzene	< 0.5
1,1,1,2-tetrachloroethane	< 0.5
ethylbenzene	< 0.5
1,1,2,2-tetrachloroethane	< 0.5
m&p-xylene	< 1.0
o-xylene	< 0.5
styrene	< 0.5
bromoforn	< 1.0
isopropylbenzene	< 0.5
1,2,3-trichloropropane	< 0.5
bromobenzene	< 0.5
n-propylbenzene	< 0.5
2-chlorotoluene	< 0.5
1,3,5-trimethylbenzene	< 0.5
4-chlorotoluene	< 0.5
tert-butyl-benzene	< 0.5
1,2,4-trimethylbenzene	< 0.5
sec-butyl-benzene	< 0.5
p-isopropyltoluene	< 0.5
1,3-dichlorobenzene	< 0.5
1,4-dichlorobenzene	< 0.5
n-butylbenzene	< 0.5
1,2-dichlorobenzene	< 0.5
1,2-dibromo-3-chloropropane	< 2.5
1,2,4-trichlorobenzene	< 0.5
hexachlorobutadiene	< 0.5
naphthalene	< 1.0
1,2,3-trichlorobenzene	< 0.5

Laboratory Control Sample 2

Date Analyzed:	11/8/2010
Spike Concentration = 20ug/L	% Recovery
dichlorodifluoromethane	114
chloromethane	108
vinyl chloride	105
bromomethane	95.5
chloroethane	95.5
trichlorofluoromethane	110
diethyl ether	76.0
acetone	90.1
1,1-dichloroethene	94.9
carbon disulfide	93.6
dichloromethane	88.4
methyl-tert-butyl-ether	92.2
trans-1,2-dichloroethene	93.3
1,1-dichloroethane	94.5
di-isopropyl ether (DIPE)	93.5
ethyl tert-butyl ether (ETBE)	92.9
2-butanone	88.6
2,2-dichloropropane	80.7
cis-1,2-dichloroethene	92.8
chloroform	91.8
bromochloromethane	95.9
tetrahydrofuran	90.9
1,1,1-trichloroethane	96.8
1,1-dichloropropene	93.8
carbon tetrachloride	97.5
1,2-dichloroethane	97.3
benzene	95.2
tert-amyl methyl ether (TAME)	93.3
trichloroethene	101
1,2-dichloropropane	95.2
bromodichloromethane	96.2
1,4-Dioxane	96.7
dibromomethane	86.3
4-methyl-2-pentanone	96.3
cis-1,3-dichloropropene	91.5
toluene	98.5
trans-1,3-dichloropropene	89.4
1,1,2-trichloroethane	97.0
2-hexanone	101
1,3-dichloropropane	92.6
tetrachloroethene	98.4
dibromochloromethane	99.5
1,2-dibromoethane (EDB)	99.4
chlorobenzene	106
1,1,1,2-tetrachloroethane	104
ethylbenzene	103
1,1,2,2-tetrachloroethane	101
m&p-xylene	105
o-xylene	95.6
styrene	98.0
bromoforn	90.0
isopropylbenzene	99.2
1,2,3-trichloropropane	91.2
bromobenzene	92.4
n-propylbenzene	97.5
2-chlorotoluene	95.3
1,3,5-trimethylbenzene	102
4-chlorotoluene	98.0
tert-butyl-benzene	100.0
1,2,4-trimethylbenzene	102
sec-butyl-benzene	101
p-isopropyltoluene	102
1,3-dichlorobenzene	98.5
1,4-dichlorobenzene	98.2
n-butylbenzene	102
1,2-dichlorobenzene	99.9
1,2-dibromo-3-chloropropane	92.9
1,2,4-trichlorobenzene	105
hexachlorobutadiene	103
naphthalene	101
1,2,3-trichlorobenzene	106

Laboratory Control Sample Duplicate 2

Date Analyzed:	11/8/2010
Spike Concentration = 20ug/L	% Recovery
dichlorodifluoromethane	119
chloromethane	109
vinyl chloride	106
bromomethane	94.7
chloroethane	97.1
trichlorofluoromethane	113
diethyl ether	78.1
acetone	87.2
1,1-dichloroethene	101
carbon disulfide	96.0
dichloromethane	91.0
methyl-tert-butyl-ether	90.0
trans-1,2-dichloroethene	93.6
1,1-dichloroethane	96.0
di-isopropyl ether (DIPE)	94.8
ethyl tert-butyl ether (ETBE)	93.0
2-butanone	86.7
2,2-dichloropropane	85.6
cis-1,2-dichloroethene	95.1
chloroform	94.0
bromochloromethane	96.1
tetrahydrofuran	86.5
1,1,1-trichloroethane	99.0
1,1-dichloropropene	94.7
carbon tetrachloride	98.9
1,2-dichloroethane	98.0
benzene	96.0
tert-amyl methyl ether (TAME)	93.9
trichloroethene	103
1,2-dichloropropane	96.3
bromodichloromethane	93.7
1,4-Dioxane	85.7
dibromomethane	95.2
4-methyl-2-pentanone	92.5
cis-1,3-dichloropropene	92.1
toluene	103
trans-1,3-dichloropropene	87.3
1,1,2-trichloroethane	98.2
2-hexanone	97.5
1,3-dichloropropane	97.0
tetrachloroethene	104
dibromochloromethane	100
1,2-dibromoethane (EDB)	101
chlorobenzene	109
1,1,1,2-tetrachloroethane	109
ethylbenzene	110
1,1,2,2-tetrachloroethane	102
m&p-xylene	110
o-xylene	96.8
styrene	95.2
bromoforn	89.9
isopropylbenzene	100
1,2,3-trichloropropane	89.1
bromobenzene	94.9
n-propylbenzene	99.9
2-chlorotoluene	96.8
1,3,5-trimethylbenzene	104
4-chlorotoluene	99.0
tert-butyl-benzene	104
1,2,4-trimethylbenzene	102
sec-butyl-benzene	104
p-isopropyltoluene	104
1,3-dichlorobenzene	99.9
1,4-dichlorobenzene	100
n-butylbenzene	103
1,2-dichlorobenzene	98.9
1,2-dibromo-3-chloropropane	96.4
1,2,4-trichlorobenzene	105
hexachlorobutadiene	108
naphthalene	103
1,2,3-trichlorobenzene	105

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	RPD	Acceptance Limits	Verdict
DIBROMOFUOROMETHANE	109	70-130	DIBROMOFUOROMETHANE	106	70-130	ok	DIBROMOFUOROMETHANE	105	70-130	ok	1.24	<25	ok
1,2-DICHLOROETHANE-D4	110	70-130	1,2-DICHLOROETHANE-D4	101	70-130	ok	1,2-DICHLOROETHANE-D4	98.3	70-130	ok	2.58	<25	ok
TOLUENE-D8	112	70-130	TOLUENE-D8	110	70-130	ok	TOLUENE-D8	108	70-130	ok	1.89	<25	ok
4-BROMOFUOROBENZENE	97.2	70-130	4-BROMOFUOROBENZENE	104	70-130	ok	4-BROMOFUOROBENZENE	104	70-130	ok	0.11	<25	ok
1,2-DICHLOROBENZENE-D4	99.6	70-130	1,2-DICHLOROBENZENE-D4	108	70-130	ok	1,2-DICHLOROBENZENE-D4	105	70-130	ok	2.80	<25	ok

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7196A/SM 18 3500 CR (d) ANALYSIS
Hexavalent Chromium by Colorometric Method

QUALITY CONTROL - AQUEOUS

Date Prepared: 11/05/10

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Hex Cr (Cr+6)	<0.010	100	90.0	10.5

RPD = Relative Percent Difference

ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 300.0 ANALYSIS
Anions by Ion Chromatography

QUALITY CONTROL - AQUEOUS

DATE PREPARED: 11/08/10

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	90-110%	90-110%	20%
Analyte				
Fluoride	<0.20	98.3	95.6	2.76
Chloride	<0.20	103	98.4	4.13
Nitrite	NA	NA	NA	NA
Nitrate	NA	NA	NA	NA
Phosphate	NA	NA	NA	NA
Sulfate	<0.60	102	98.4	3.56

RPD = Relative Percent Difference

ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 300.0 ANALYSIS
Anions by Ion Chromatography

QUALITY CONTROL - AQUEOUS

DATE PREPARED: 11/10/10 B

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	90-110%	90-110%	20%
Analyte				
Fluoride	<0.20	96.7	93.2	3.71
Chloride	<0.20	101	99.1	1.93
Nitrite	NA	NA	NA	NA
Nitrate	NA	NA	NA	NA
Phosphate	NA	NA	NA	NA
Sulfate	<0.60	99.0	97.8	1.18

RPD = Relative Percent Difference

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010C ANALYSIS
Metals by ICP

QUALITY CONTROL - AQUEOUS

DATE PREPARED: 11/9/2010

QC Sample	Method Blank	Lab Control Sample
Units	mg/L	% Recovery
Acceptance Limits	Results	80-120
Analyte		
Silver (Ag)	<0.0005	96.8
Aluminum (Al)	NA	NA
Arsenic (As)	<0.0010	103
Boron (B)	NA	NA
Barium (Ba)	NA	NA
Beryllium (Be)	NA	NA
Calcium (Ca)	NA	NA
Cadmium (Cd)	<0.0005	108
Cobalt (Co)	NA	NA
Chromium (Cr)	<0.0005	109
Copper (Cu)	<0.0050	108
Iron (Fe)	<0.010	112
Magnesium (Mg)	NA	NA
Manganese (Mn)	NA	NA
Molybdenum (Mo)	NA	NA
Nickel (Ni)	<0.0010	111
Lead (Pb)	<0.0010	108
Antimony (Sb)	<0.0025	104
Selenium (Se)	<0.0025	105
Tin (Sn)	NA	NA
Titanium (Ti)	NA	NA
Thallium (Tl)	NA	NA
Vanadium (V)	NA	NA
Zinc (Zn)	<0.0010	120
Zirconium (Zr)	NA	NA

RPD = Relative Percent Difference
NA = Not Applicable
NC = Not Calculated
CRM = Certified Reference Material

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7470A ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - AQUEOUS

Date Prepared : 11/10/10

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Mercury (Hg)	<0.00020	96.4	97.0	0.62

RPD = Relative Percent Difference
LC concentration = 0.005 mg/L

EPA Method 8270 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Extracted:	11/08/10	
Date Analyzed:	11/10/10	
File Name:	M7040	
Semi-Volatile Organics	Result	(ug/L)
phenol	ND	10
bis(2-chloroethyl)ether	ND	10
2-chlorophenol	ND	10
1,3-dichlorobenzene	ND	10
1,4-dichlorobenzene	ND	10
1,2-dichlorobenzene	ND	10
2-methylphenol	ND	10
bis(2-chloroisopropyl)ether	ND	10
3&4-methylphenol	ND	10
acetophenone	ND	10
hexachloroethane	ND	10
nitrobenzene	ND	10
isophrone	ND	10
2-nitrophenol	ND	10
2,4-dimethylphenol	ND	10
bis(2-chloroethoxy)methane	ND	10
2,4-dichlorophenol	ND	10
1,2,4-trichlorobenzene	ND	10
naphthalene	ND	2.0
4-chloroaniline	ND	10
hexachlorobutadiene	ND	10
2-methylnaphthalene	ND	2.0
aniline	ND	10
2,4,6-trichlorophenol	ND	10
2,4,5-trichlorophenol	ND	10
2-chloronaphthalene	ND	10
dimethylphthalate	ND	10
acenaphthylene	ND	2.0
2,6-dinitrotoluene	ND	10
acenaphthene	ND	2.0
2,4-dinitrophenol	ND	100
dibenzofuran	ND	10
4-nitrophenol	ND	50
2,4-dinitrotoluene	ND	10
diethylphthalate	ND	10
fluorene	ND	2.0
azobenzene	ND	10
4-bromophenyl phenyl ether	ND	10
hexachlorobenzene	ND	10
pentachlorophenol	ND	50
phenanthrene	ND	2.0
anthracene	ND	2.0
di-n-butylphthalate	ND	15
fluoranthene	ND	2.0
pyrene	ND	2.0
butylbenzylphthalate	ND	10
benz [a] anthracene	ND	2.0
3,3'-dichlorobenzidine	ND	20
chrysene	ND	2.0
bis(2-ethylhexyl)phthalate	ND	10
di-n-octylphthalate	ND	10
benzo [b] fluoranthene	ND	2.0
benzo [k] fluoranthene	ND	2.0
benzo [a] pyrene	ND	2.0
indeno [1,2,3-cd] pyrene	ND	2.0
dibenz [a,h] anthracene	ND	2.0
benzo [ghi] perylene	ND	2.0

Surrogates:	Recovery (%)	Acceptance Limits
2-FLUOROPHENOL	39.4	15-110
PHENOL-D6	26.4	15-110
NITROBENZENE-D5	66.5	30-130
2-FLUOROBIPHENYL	66.5	30-130
2,4,6-TRIBROMOPHENOL	60.9	15-100
p-TERPHENYL-D14	84.3	30-130

EPA Method 8270 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Laboratory Control Sample

Laboratory Control Sample Duplicate

Date Extracted:	11/08/10			Date Extracted:	11/08/10			
Date Analyzed:	11/10/10			Date Analyzed:	11/10/10			
File Name:	M7041			File Name:	M7042			
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	% Diff	Limits
phenol	29.9	30-130	out	32.7	30-130	ok	9.2	<20
bis(2-chloroethyl)ether	58.0	40-140	ok	67.9	40-140	ok	16	<20
2-chlorophenol	62.2	30-130	ok	71.6	30-130	ok	14	<20
1,3-dichlorobenzene	46.4	40-140	ok	52.4	40-140	ok	12	<20
1,4-dichlorobenzene	49.7	40-140	ok	54.9	40-140	ok	9.8	<20
1,2-dichlorobenzene	50.6	40-140	ok	57.0	40-140	ok	12	<20
2-methylphenol	60.1	30-130	ok	64.4	30-130	ok	7.0	<20
bis(2-chloroisopropyl)ether	54.9	40-140	ok	60.5	40-140	ok	9.8	<20
3&4-methylphenol	54.3	30-130	ok	61.0	30-130	ok	12	<20
acetophenone	64.7	40-140	ok	72.4	40-140	ok	11	<20
hexachloroethane	40.1	40-140	ok	43.7	40-140	ok	8.8	<20
nitrobenzene	63.6	40-140	ok	72.1	40-140	ok	12	<20
isophrone	62.7	40-140	ok	72.1	30-130	ok	14	<20
2-nitrophenol	69.4	30-130	ok	77.8	30-130	ok	11	<20
2,4-dimethylphenol	59.3	30-130	ok	66.3	30-130	ok	11	<20
bis(2-chloroethoxy)methane	66.1	40-140	ok	75.7	30-130	ok	14	<20
2,4-dichlorophenol	65.8	30-130	ok	78.6	40-140	ok	18	<20
1,2,4-trichlorobenzene	50.7	40-140	ok	58.5	40-140	ok	14	<20
naphthalene	61.2	40-140	ok	68.3	40-140	ok	11	<20
4-chloroaniline	82.2	40-140	ok	78.1	40-140	ok	5.1	<20
hexachlorobutadiene	39.9	40-140	out	43.8	30-130	ok	9.3	<20
2-methylnaphthalene	64.7	40-140	ok	71.8	40-140	ok	10	<20
aniline	73.6	40-140	ok	65.9	40-140	ok	11	<20
2,4,6-trichlorophenol	69.4	30-130	ok	79.1	30-130	ok	13	<20
2,4,5-trichlorophenol	77.4	30-130	ok	91.3	40-140	ok	16	<20
2-chloronaphthalene	65.4	40-140	ok	73.5	40-140	ok	12	<20
dimethylphthalate	73.1	40-140	ok	83.9	40-140	ok	14	<20
acenaphthylene	67.7	40-140	ok	77.3	40-140	ok	13	<20
2,6-dinitrotoluene	73.0	40-140	ok	86.0	40-140	ok	16	<20
acenaphthene	66.0	40-140	ok	73.2	30-130	ok	10	<20
2,4-dinitrophenol	54.5	30-130	ok	71.6	40-140	ok	27	<20
dibenzofuran	65.3	40-140	ok	75.5	30-130	ok	14	<20
4-nitrophenol	30.4	30-130	ok	36.8	40-140	out	19	<20
2,4-dinitrotoluene	73.7	40-140	ok	83.5	40-140	ok	13	<20
diethylphthalate	70.0	40-140	ok	82.2	40-140	ok	16	<20
fluorene	68.5	40-140	ok	77.8	40-140	ok	13	<20
azobenzene	65.9	40-140	ok	76.0	40-140	ok	14	<20
4-bromophenyl phenyl ether	71.7	40-140	ok	81.9	40-140	ok	13	<20
hexachlorobenzene	69.8	40-140	ok	80.2	40-140	ok	14	<20
pentachlorophenol	66.7	30-130	ok	82.4	40-140	ok	21	<20
phenanthrene	72.3	40-140	ok	80.5	40-140	ok	11	<20
anthracene	69.2	40-140	ok	81.2	40-140	ok	16	<20
di-n-butylphthalate	71.2	40-140	ok	82.0	40-140	ok	14	<20
fluoranthene	73.8	40-140	ok	84.9	40-140	ok	14	<20
pyrene	73.9	40-140	ok	84.2	40-140	ok	13	<20
butylbenzylphthalate	71.0	40-140	ok	85.4	40-140	ok	18	<20
benz [a] anthracene	70.3	40-140	ok	81.0	40-140	ok	14	<20
3,3'-dichlorobenzidine	73.3	40-140	ok	91.6	40-140	ok	22	<20
chrysene	72.0	40-140	ok	84.6	40-140	ok	16	<20
bis(2-ethylhexyl)phthalate	75.0	40-140	ok	89.5	40-140	ok	18	<20
di-n-octylphthalate	67.8	40-140	ok	80.5	40-140	ok	17	<20
benzo [b] fluoranthene	72.8	40-140	ok	79.9	40-140	ok	9.2	<20
benzo [k] fluoranthene	66.4	40-140	ok	82.8	40-140	ok	22	<20
benzo [a] pyrene	69.2	40-140	ok	79.0	40-140	ok	13	<20
indeno [1,2,3-cd] pyrene	71.2	40-140	ok	81.4	40-140	ok	13	<20
dibenz [a,h] anthracene	68.4	40-140	ok	80.0	40-141	ok	16	<20
benzo [ghi] perylene	67.5	40-140	ok	76.4	40-142	ok	12	<20

CAM criteria allows 15% of analytes to exceed criteria.

Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	Relative % Diff.	Limits
2-FLUOROPHENOL	42.0	15-110	ok	47.9	15-110	ok	13	<20
PHENOL-D6	28.6	15-110	ok	32.8	15-110	ok	14	<20
NITROBENZENE-D5	65.4	30-130	ok	70.9	30-130	ok	8.2	<20
2-FLUOROBIPHENYL	66.3	30-130	ok	74.7	30-130	ok	12	<20
2,4,6-TRIBROMOPHENOL	74.1	15-110	ok	89.3	15-110	ok	19	<20
p-TERPHENYL-D14	71.7	30-130	ok	85.0	30-130	ok	17	<20

1011104

ESS HHS

W.O. # 100-1011-20046

CHAIN-OF-CUSTODY RECORD

ANALYSIS REQUIRED

Sample I.D.	Date/Time Sampled	Matrix	Analysis Required	Total No. of Cont.	Note #
B-5	11/05/10 1330	GW	☐ pH ☐ Cond. GC Methane, Ethane, Ethene EPA 8260 EPA 8260-8010 List (Chlor.) EPA 8260-8021 List EPA 8021-8020 List (BTEX) EPA 524.2 DW VOCs EPA 624 WW VOCs ☐ 601 ☐ 602 WW VOCs EPA 8270 FULL SVOCs EPA 8270 ☐ PAH ☐ A ☐ BN EPA 625 WW SVOCs EPA 8082-PCBs EPA 8081-Pest X TPH-GC Method 8000 Method 1631 TPH-GC w/FTIR X EPA 8210 EDB X EPA 8210 Cadmium Metals ☐ PPM-13 ☐ R-8 MCP 14 Metals Metals (List Below) ** TCLP - Specify Below SPLP - Specify Below EPA 300 ☐ Cl ☐ SO4 EPA 300 ☐ NO2 ☐ NO3 X Total Suspended Solids X Total Residual Chlorine X Cyanide X PBT and Perchlorophenol X PCB Method 608 Total No. of Cont.	12	1,2,3
PRESERVATIVE (C-HCl, M-Methanol, N-HNO3, S-H2SO4, Na-NaOH, O-Other) * CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other) * RECEIVED BY: DATE/TIME: 11/05/10 1547 RECEIVED BY: DATE/TIME: 11/10/10 1605 RECEIVED BY: DATE/TIME: 11/15/10 1605 RECEIVED BY: DATE/TIME: 11/15/10 1620 Project Manager: Mike Clark					
NOTES: (Unless otherwise noted, all samples have been refrigerated to 4 +/- 2°C) *Specify "Other" preservatives and container types in this space. ① EDB RL must be 0.05 µg/L. ② Cadmium RL must be 0.2 µg/L. ③ O = unpreserved					
GZA FILE NO.: 03.0033493M TASK NO.: 2 P.O. NO.: PROJECT: Mattapan Community Health Center LOCATION: 1569-1585 Blue Hill Ave, Mattapan, MA COLLECTOR(S): James Behnig SHEET 1 OF 1 TURNAROUND TIME: (Standard) Rush LAB USE: Temp Blank Days, Approved by: [Signature] DATE: 3, °C 6 Cooler Air					

ESS /

Let-111-CCR 46
(for lab use only)

2



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Division of Thielsch Engineering, Inc.

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CERTIFICATE OF ANALYSIS

Michelle Mirenda
GZA GeoEnvironmental, Inc. (MA)
106 South Street
Hopkinton, MA 01748

RE: Mattapan Community Health Center (03.0033493.04)
ESS Laboratory Work Order Number: 1011104

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Digitally signed by Melissa Pagliarini
Date: 2010.11.11 16:39:46 -05'00'

Laurel Stoddard
Laboratory Director

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.



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CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)
Client Project ID: Mattapan Community Health Center

ESS Laboratory Work Order: 1011104

SAMPLE RECEIPT

The following samples were received on November 05, 2010 for the analyses specified on the enclosed Chain of Custody Record.

The samples and analyses listed below were analyzed in accordance with the Guidelines Establishing Test Procedures for the Analysis of Pollutants, 40 CFR Part 136, as amended.

Cadmium for sample 1011104-01 was cancelled by client.

<u>Lab Number</u>	<u>SampleName</u>	<u>Matrix</u>	<u>Analysis</u>
1011104-01	B-5	Ground Water	1664A, 2540D, 4500 CN CE, 4500Cl D, 504.1, 608, 8270C SIM



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CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)
Client Project ID: Mattapan Community Health Center

ESS Laboratory Work Order: 1011104

PROJECT NARRATIVE

Classical Chemistry

1011104-01

The maximum holding time listed in 40 CFR Part 136 Table II for pH, Dissolved Oxygen, Sulfite and Residual Chlorine is fifteen minutes.

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



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CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)
Client Project ID: Mattapan Community Health Center
Client Sample ID: B-5
Date Sampled: 11/05/10 13:30
Percent Solids: N/A
Initial Volume: 1000
Final Volume: 5
Extraction Method: 3510C

ESS Laboratory Work Order: 1011104
ESS Laboratory Sample ID: 1011104-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: ML
Prepared: 11/9/10 13:45

All methods used are in accordance with 40 CFR 136.

608 Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.50)		1	11/09/10 18:26		CK00813
Aroclor 1221	ND (0.50)		1	11/09/10 18:26		CK00813
Aroclor 1232	ND (0.50)		1	11/09/10 18:26		CK00813
Aroclor 1242	ND (0.50)		1	11/09/10 18:26		CK00813
Aroclor 1248	ND (0.50)		1	11/09/10 18:26		CK00813
Aroclor 1254	ND (0.50)		1	11/09/10 18:26		CK00813
Aroclor 1260	ND (0.50)		1	11/09/10 18:26		CK00813
Aroclor 1262	ND (0.50)		1	11/09/10 18:26		CK00813
Aroclor 1268	ND (0.50)		1	11/09/10 18:26		CK00813

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	104 %		30-150
Surrogate: Decachlorobiphenyl [2C]	130 %		30-150
Surrogate: Tetrachloro-m-xylene	101 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	110 %		30-150



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CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)
Client Project ID: Mattapan Community Health Center
Client Sample ID: B-5
Date Sampled: 11/05/10 13:30
Percent Solids: N/A
Initial Volume: 1000
Final Volume: 0.25
Extraction Method: 3510C

ESS Laboratory Work Order: 1011104
ESS Laboratory Sample ID: 1011104-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: IBM
Prepared: 11/10/10 18:00

All methods used are in accordance with 40 CFR 136.

8270C(SIM) Semi-Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
2-Methylnaphthalene	10.2 (1.00)		5	11/11/10 14:39	CTK0082	CK01033
Acenaphthene	ND (1.00)		5	11/11/10 14:39	CTK0082	CK01033
Acenaphthylene	ND (1.00)		5	11/11/10 14:39	CTK0082	CK01033
Anthracene	ND (1.00)		5	11/11/10 14:39	CTK0082	CK01033
Benzo(a)anthracene	ND (0.25)		5	11/11/10 14:39	CTK0082	CK01033
Benzo(a)pyrene	ND (0.25)		5	11/11/10 14:39	CTK0082	CK01033
Benzo(b)fluoranthene	ND (0.25)		5	11/11/10 14:39	CTK0082	CK01033
Benzo(g,h,i)perylene	ND (1.00)		5	11/11/10 14:39	CTK0082	CK01033
Benzo(k)fluoranthene	ND (0.25)		5	11/11/10 14:39	CTK0082	CK01033
Chrysene	ND (0.25)		5	11/11/10 14:39	CTK0082	CK01033
Dibenzo(a,h)Anthracene	ND (0.25)		5	11/11/10 14:39	CTK0082	CK01033
Fluoranthene	ND (1.00)		5	11/11/10 14:39	CTK0082	CK01033
Fluorene	ND (1.00)		5	11/11/10 14:39	CTK0082	CK01033
Indeno(1,2,3-cd)Pyrene	ND (0.25)		5	11/11/10 14:39	CTK0082	CK01033
Naphthalene	29.8 (1.00)		5	11/11/10 14:39	CTK0082	CK01033
Pentachlorophenol	ND (5.00)		5	11/11/10 14:39	CTK0082	CK01033
Phenanthrene	ND (1.00)		5	11/11/10 14:39	CTK0082	CK01033
Pyrene	ND (1.00)		5	11/11/10 14:39	CTK0082	CK01033

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	82 %		30-130
Surrogate: 2-Fluorobiphenyl	84 %		30-130
Surrogate: Nitrobenzene-d5	92 %		30-130
Surrogate: p-Terphenyl-d14	116 %		30-130



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CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)
Client Project ID: Mattapan Community Health Center
Client Sample ID: B-5
Date Sampled: 11/05/10 13:30
Percent Solids: N/A

ESS Laboratory Work Order: 1011104
ESS Laboratory Sample ID: 1011104-01
Sample Matrix: Ground Water

All methods used are in accordance with 40 CFR 136.

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Total Cyanide (LL)	0.0077 (0.0050)	4500 CN CE		1	EEM	11/08/10 10:50	mg/L	CK00803
Total Petroleum Hydrocarbon	ND (5)	1664A		1	LRF	11/09/10 13:30	mg/L	CK00913
Total Residual Chlorine	ND (0.02)	4500Cl D		1	KJK	11/05/10 19:12	mg/L	CK00525
Total Suspended Solids	ND (5)	2540D		1	EEM	11/10/10 11:40	mg/L	CK01010



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CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)
Client Project ID: Mattapan Community Health Center
Client Sample ID: B-5
Date Sampled: 11/05/10 13:30
Percent Solids: N/A
Initial Volume: 35
Final Volume: 2
Extraction Method: 504/8011

ESS Laboratory Work Order: 1011104
ESS Laboratory Sample ID: 1011104-01
Sample Matrix: Ground Water
Units: ug/L
Analyst: SEP
Prepared: 11/10/10 9:30

All methods used are in accordance with 40 CFR 136.

504.1 1,2-Dibromoethane / 1,2-Dibromo-3-chloropropane

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,2-Dibromo-3-Chloropropane	ND (0.015)		1	11/10/10 12:56		CK01005
1,2-Dibromoethane	ND (0.015)		1	11/10/10 12:56		CK01005

	%Recovery	Qualifier	Limits
Surrogate: Pentachloroethane	92 %		30-150



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CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)

Client Project ID: Mattapan Community Health Center

ESS Laboratory Work Order: 1011104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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608 Polychlorinated Biphenyls (PCB)

Batch CK00813 - 3510C

Blank

Aroclor 1016	ND	0.50	ug/L
Aroclor 1221	ND	0.50	ug/L
Aroclor 1232	ND	0.50	ug/L
Aroclor 1242	ND	0.50	ug/L
Aroclor 1248	ND	0.50	ug/L
Aroclor 1254	ND	0.50	ug/L
Aroclor 1260	ND	0.50	ug/L
Aroclor 1262	ND	0.50	ug/L
Aroclor 1268	ND	0.50	ug/L

Surrogate: Decachlorobiphenyl	0.207		ug/L	0.2500	83	30-150
Surrogate: Decachlorobiphenyl [2C]	0.238		ug/L	0.2500	95	30-150
Surrogate: Tetrachloro-m-xylene	0.228		ug/L	0.2500	91	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.271		ug/L	0.2500	109	30-150

LCS

Aroclor 1016	5.00	0.50	ug/L	5.000	100	40-140
Aroclor 1260	4.78	0.50	ug/L	5.000	96	40-140

Surrogate: Decachlorobiphenyl	0.205		ug/L	0.2500	82	30-150
Surrogate: Decachlorobiphenyl [2C]	0.248		ug/L	0.2500	99	30-150
Surrogate: Tetrachloro-m-xylene	0.233		ug/L	0.2500	93	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.265		ug/L	0.2500	106	30-150

LCS Dup

Aroclor 1016	5.08	0.50	ug/L	5.000	102	40-140	2	50
Aroclor 1260	5.02	0.50	ug/L	5.000	100	40-140	5	50

Surrogate: Decachlorobiphenyl	0.210		ug/L	0.2500	84	30-150
Surrogate: Decachlorobiphenyl [2C]	0.257		ug/L	0.2500	103	30-150
Surrogate: Tetrachloro-m-xylene	0.230		ug/L	0.2500	92	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.263		ug/L	0.2500	105	30-150

8270C(SIM) Semi-Volatile Organic Compounds

Batch CK01033 - 3510C

Blank

2-Methylnaphthalene	ND	0.20	ug/L
Acenaphthene	ND	0.20	ug/L
Acenaphthylene	ND	0.20	ug/L
Anthracene	ND	0.20	ug/L
Benzo(a)anthracene	ND	0.05	ug/L
Benzo(a)pyrene	ND	0.05	ug/L
Benzo(b)fluoranthene	ND	0.05	ug/L
Benzo(g,h,i)perylene	ND	0.20	ug/L
Benzo(k)fluoranthene	ND	0.05	ug/L
Chrysene	ND	0.05	ug/L

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CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)

Client Project ID: Mattapan Community Health Center

ESS Laboratory Work Order: 1011104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270C(SIM) Semi-Volatile Organic Compounds

Batch CK01033 - 3510C

Dibenzo(a,h)Anthracene	ND	0.05	ug/L							
Fluoranthene	ND	0.20	ug/L							
Fluorene	ND	0.20	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	0.05	ug/L							
Naphthalene	ND	0.20	ug/L							
Pentachlorophenol	ND	1.00	ug/L							
Phenanthrene	ND	0.20	ug/L							
Pyrene	ND	0.20	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	0.580		ug/L	0.6250		93	30-130			
Surrogate: 2-Fluorobiphenyl	0.535		ug/L	0.6250		86	30-130			
Surrogate: Nitrobenzene-d5	0.522		ug/L	0.6250		84	30-130			
Surrogate: p-Terphenyl-d14	0.660		ug/L	0.6250		106	30-130			

LCS

2-Methylnaphthalene	0.540	0.20	ug/L	0.5000		108	40-140			
Acenaphthene	0.428	0.20	ug/L	0.5000		86	40-140			
Acenaphthylene	0.370	0.20	ug/L	0.5000		74	40-140			
Anthracene	0.408	0.20	ug/L	0.5000		82	40-140			
Benzo(a)anthracene	0.410	0.05	ug/L	0.5000		82	40-140			
Benzo(a)pyrene	0.382	0.05	ug/L	0.5000		76	40-140			
Benzo(b)fluoranthene	0.412	0.05	ug/L	0.5000		82	40-140			
Benzo(g,h,i)perylene	0.332	0.20	ug/L	0.5000		66	40-140			
Benzo(k)fluoranthene	0.345	0.05	ug/L	0.5000		69	40-140			
Chrysene	0.400	0.05	ug/L	0.5000		80	40-140			
Dibenzo(a,h)Anthracene	0.322	0.05	ug/L	0.5000		64	40-140			
Fluoranthene	0.465	0.20	ug/L	0.5000		93	40-140			
Fluorene	0.430	0.20	ug/L	0.5000		86	40-140			
Indeno(1,2,3-cd)Pyrene	0.328	0.05	ug/L	0.5000		66	40-140			
Naphthalene	0.412	0.20	ug/L	0.5000		82	40-140			
Pentachlorophenol	1.48	1.00	ug/L	2.500		59	30-130			
Phenanthrene	0.395	0.20	ug/L	0.5000		79	40-140			
Pyrene	0.395	0.20	ug/L	0.5000		79	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	0.615		ug/L	0.6250		98	30-130			
Surrogate: 2-Fluorobiphenyl	0.600		ug/L	0.6250		96	30-130			
Surrogate: Nitrobenzene-d5	0.572		ug/L	0.6250		92	30-130			
Surrogate: p-Terphenyl-d14	0.720		ug/L	0.6250		115	30-130			

LCS Dup

2-Methylnaphthalene	0.560	0.20	ug/L	0.5000		112	40-140	4	20	
Acenaphthene	0.438	0.20	ug/L	0.5000		88	40-140	2	20	
Acenaphthylene	0.355	0.20	ug/L	0.5000		71	40-140	4	20	
Anthracene	0.415	0.20	ug/L	0.5000		83	40-140	2	20	
Benzo(a)anthracene	0.422	0.05	ug/L	0.5000		84	40-140	3	20	
Benzo(a)pyrene	0.395	0.05	ug/L	0.5000		79	40-140	3	20	
Benzo(b)fluoranthene	0.382	0.05	ug/L	0.5000		76	40-140	8	20	
Benzo(g,h,i)perylene	0.355	0.20	ug/L	0.5000		71	40-140	7	20	
Benzo(k)fluoranthene	0.390	0.05	ug/L	0.5000		78	40-140	12	20	

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CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)

Client Project ID: Mattapan Community Health Center

ESS Laboratory Work Order: 1011104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270C(SIM) Semi-Volatile Organic Compounds

Batch CK01033 - 3510C

Chrysene	0.422	0.05	ug/L	0.5000		84	40-140	5	20	
Dibenzo(a,h)Anthracene	0.338	0.05	ug/L	0.5000		68	40-140	5	20	
Fluoranthene	0.468	0.20	ug/L	0.5000		94	40-140	0.5	20	
Fluorene	0.438	0.20	ug/L	0.5000		88	40-140	2	20	
Indeno(1,2,3-cd)Pyrene	0.345	0.05	ug/L	0.5000		69	40-140	5	20	
Naphthalene	0.422	0.20	ug/L	0.5000		84	40-140	2	20	
Pentachlorophenol	1.52	1.00	ug/L	2.500		61	30-130	3	20	
Phenanthrene	0.408	0.20	ug/L	0.5000		82	40-140	3	20	
Pyrene	0.445	0.20	ug/L	0.5000		89	40-140	12	20	
Surrogate: 1,2-Dichlorobenzene-d4	0.590		ug/L	0.6250		94	30-130			
Surrogate: 2-Fluorobiphenyl	0.588		ug/L	0.6250		94	30-130			
Surrogate: Nitrobenzene-d5	0.575		ug/L	0.6250		92	30-130			
Surrogate: p-Terphenyl-d14	0.715		ug/L	0.6250		114	30-130			

Classical Chemistry

Batch CK00525 - General Preparation

Blank										
Total Residual Chlorine	ND	0.02	mg/L							
LCS										
Total Residual Chlorine	2.08		mg/L	2.090		100	85-115			
Duplicate Source: 1011104-01										
Total Residual Chlorine	ND	0.02	mg/L		ND				20	

Batch CK00803 - TCN Prep

Blank										
Total Cyanide (LL)	ND	0.0050	mg/L							
LCS										
Total Cyanide (LL)	0.0202	0.0050	mg/L	0.02006		101	90-110			
LCS										
Total Cyanide (LL)	0.147	0.0050	mg/L	0.1504		98	90-110			
LCS Dup										
Total Cyanide (LL)	0.149	0.0050	mg/L	0.1504		99	90-110	1	20	
Duplicate Source: 1011104-01										
Total Cyanide (LL)	0.0071	0.0050	mg/L		0.0077			8	20	
Matrix Spike Source: 1011104-01										
Total Cyanide (LL)	0.0951	0.0050	mg/L	0.1003	0.0077	87	75-125			

Batch CK00913 - General Preparation

Blank										
Total Petroleum Hydrocarbon	ND	5	mg/L							
LCS										
Total Petroleum Hydrocarbon	18	5	mg/L	19.22		92	66-114			

Batch CK01010 - General Preparation

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CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)
Client Project ID: Mattapan Community Health Center

ESS Laboratory Work Order: 1011104

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Classical Chemistry

Batch CK01010 - General Preparation

Blank

Total Suspended Solids	ND	5	mg/L
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LCS

Total Suspended Solids	28		mg/L	30,70	91	80-120
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Duplicate Source: 1011104-01

Total Suspended Solids	ND	5	mg/L	ND		20
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504.1 1,2-Dibromoethane / 1,2-Dibromo-3-chloropropane

Batch CK01005 - 504/8011

Blank

1,2-Dibromo-3-Chloropropane	ND	0.015	ug/L
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1,2-Dibromoethane	ND	0.015	ug/L
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Surrogate: Pentachloroethane	0.225		ug/L	0.2000	112	30-150
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LCS

1,2-Dibromo-3-Chloropropane	0.213	0.015	ug/L	0.2000	107	60-140
-----------------------------	-------	-------	------	--------	-----	--------

1,2-Dibromoethane	0.225	0.015	ug/L	0.2000	113	60-140
-------------------	-------	-------	------	--------	-----	--------

Surrogate: Pentachloroethane	0.212		ug/L	0.2000	106	30-150
------------------------------	-------	--	------	--------	-----	--------

LCS Dup

1,2-Dibromo-3-Chloropropane	0.205	0.015	ug/L	0.2000	102	60-140	4	20
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1,2-Dibromoethane	0.238	0.015	ug/L	0.2000	119	60-140	6	20
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Surrogate: Pentachloroethane	0.209		ug/L	0.2000	105	30-150
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Duplicate Source: 1011104-01

1,2-Dibromo-3-Chloropropane	ND	0.015	ug/L	ND		20
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1,2-Dibromoethane	ND	0.015	ug/L	ND		20
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Surrogate: Pentachloroethane	0.188		ug/L	0.2000	94	30-150
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CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)

Client Project ID: Mattapan Community Health Center

ESS Laboratory Work Order: 1011104

Notes and Definitions

U	Analyte included in the analysis, but not detected
HT	The maximum holding time listed in 40 CFR Part 136 Table II for pH, Dissolved Oxygen, Sulfite and Residual Chlorine is fifteen minutes.
D	Diluted.
ND	Analyte NOT DETECTED above the detection limit (LOD for DoD Reports)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
LOD	Limit of Detection
[CALC]	Calculated Analyte
LOQ	Limit of Quantitation
DL	Detection Limit



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CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)

Client Project ID: Mattapan Community Health Center

ESS Laboratory Work Order: 1011104

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002

http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301

http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Potable (VOA) and Non Potable Water (RCRA), Solids and Hazardous Waste: RI002

<http://www.nj.gov/dep/oqa/certlabs.htm>

Pennsylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752

http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911_accredited_laboratories.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141

Lead Paint, Lead in Children's Metals Jewelry

<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

6-24-25

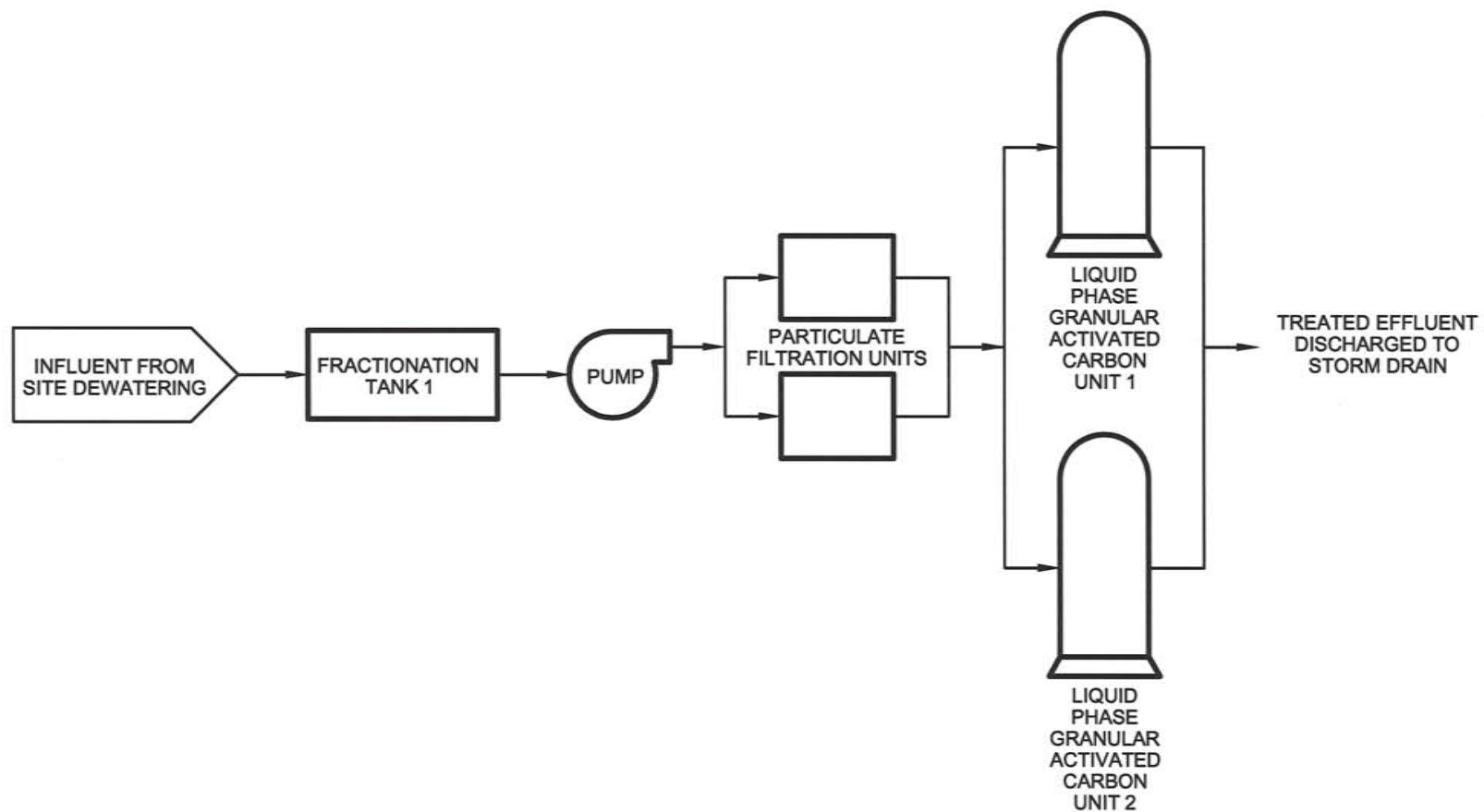
141-00046

(for lab use only)

[illegible]

ATTACHMENT 5

FIGURE 3 – PROCESS FLOW DIAGRAM



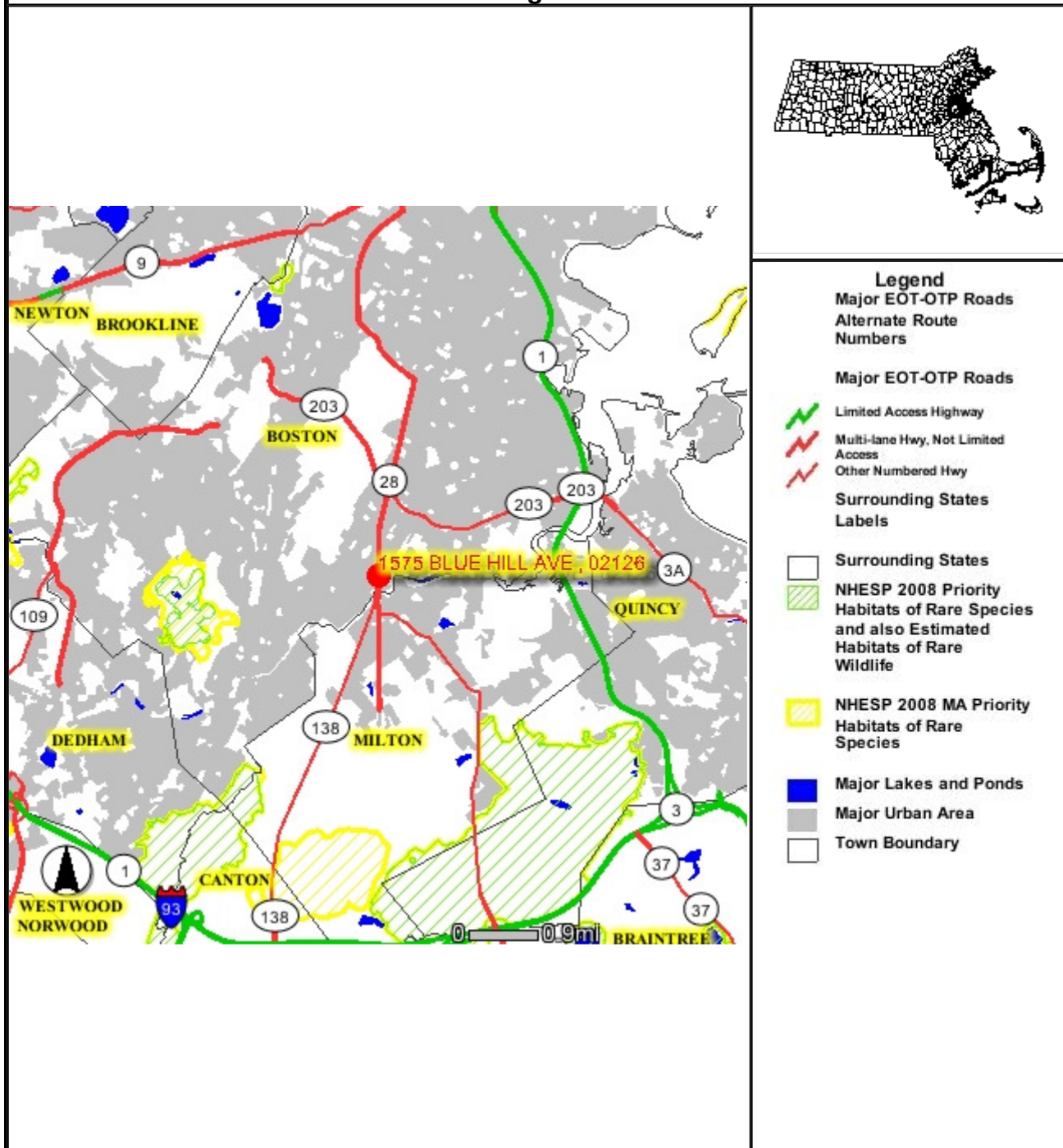
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists ONE EDGEWATER DRIVE Norwood, Massachusetts (PH) 781-278-3700	MATTAPAN COMMUNITY HEALTH CENTER 1563-1585 BLUE HILL AVENUE MATTAPAN, MASSACHUSETTS	PROJ MGR: MC DESIGNED BY: JKM REVIEWED BY: JAC DRAWN BY: OCO CHECKED BY: SCALE: NOT TO SCALE	DATE 02-15-2011 PROJECT NO. 03.0033493.08 REVISION NO.	FIGURE 3
PREPARED FOR: MATTAPAN HEALTH CENTER REALTY, INC.	PROCESS FLOW DIAGRAM PROPOSED DEWATERING TREATMENT SYSTEM			

ATTACHMENT 6

NATIONAL HERITAGE AND ENDANGERED SPECIES PROGRAM MAP

2008 Priority Habitat and Estimated Habitat Natural Heritage & Endangered Species Program



ATTACHMENT 7

FISH AND WILDLIFE SERVICE LETTER



United States Department of the Interior



FISH AND WILDLIFE SERVICE

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

January 3, 2011

To Whom It May Concern:

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

(<http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm>)

Based on the information currently available, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service (Service) are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required.

This concludes the review of listed species and critical habitat in the project location(s) and environs referenced above. No further Endangered Species Act coordination of this type is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

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

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office