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

CERTIFIED MAIL

January 19, 2011

Jim Redmond
Assistant Chief Operator
CH2MHILL
1748 West Truck Road
Otis ANG Base, MA 02542

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Former Bull HN Information Systems Inc., site located at 38 Life Street, Brighton, MA 02135, Suffolk County; Authorization # MAG910077 - Reissuance

Dear Mr. Redmond:

Based on the review of your Notice of Intent (NOI) submitted on behalf of Honeywell International Inc., by the firm CH2MHILL, 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 check list 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 that based on the historic presence of contamination at the site EPA has retained all pollutants detected in the influent flow which have been reported present in the NOI application, and other pollutants which have been detected in the laboratory record at lower concentrations, to be monitored at the site.

The Operator may request deletion of pollutants selected for monitoring at this time during the six months permit recertification. Please use the Notice of Change (NOC) procedures to request the deletion of the pollutants not detected in the influent. (Please see Appendix V of the RGP for more information).

Also, please note that the metals copper, and nickel and iron are included in the list. Copper, nickel, zinc and iron were included because you have marked these believed present in the NOI application. These pollutants are dilution dependent subject to limitations based on a dilution factor range (DFR), due to the ample dilution at the point of discharge (1,059) the DFR applicable for this pollutant is equal to the Ceiling Value DFR established in the RGP. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the limit for copper of 520 ug/L, nickel of 2,380ug/L, zinc of 1,480ug/L and iron of 5,000ug/L, shall not be exceeded in the discharge.

Additionally, 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. Recertification's 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. This project reportedly will terminate on September 9, 2015. If for any reason the discharge terminates sooner you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

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

Sincerely,

David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP
Lynne Tseng, CH2MHILL

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Permit Number:	**MAG910076- Reissuance**
Date Permit Issued:	January, 2011
Facility/Site Name:	Former Bull HN Information Systems Inc.
Facility/Site Address:	38 Life Street, Brighton, MA 02135, Suffolk County
	Email address of owner:Prashant.Gupta@Honeywell.com; Phone n:804-530-6211
Legal Name of operator:	CH2MHILL
Operator contact name, title, and Address:	Jim Redmond, Assistant Chief Operator , 1748 West Truck Road Otis ANG Base, MA 02542 ; james.redmond@ch2m.com
	Email: james.redmond@ch2m.com
Estimated Date of Completion:	September 9, 2015
Category and Sub-Category:	Category IV- Miscellaneous Related Discharges. Sub-category D. Long-Term Remediation of Contaminated Sumps and Dikes
Receiving Water:	Drainage System to Charles River

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

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing **, Me#60.2/ML 5ug/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
	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)	Monitor Only (ug/L)/ Me#8260C/ ML

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	(TertiaryButanol)	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/ ML5ug/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/ML5ug/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
	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,

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
		Me#610/ML 5ug/L& Me#625/ML 5ug/L
	e. Chrysene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	g. Indeno(1,2,3-cd) Pyrene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
	h. Acenaphthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene [5]	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
√	37. Total Polychlorinated Biphenyls (PCBs) [8, 9]	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
√	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11]			
		Freshwater	Saltwater		
	39. Antimony	5.6/10mL			
	40. Arsenic **	10/20mL	36/20mL		
	41. Cadmium **	0.2/10ml	8.9/10mL		
	42. Chromium III (trivalent) **	48.8/15mL	100/15mL		
	43. Chromium VI (hexavalent) **	11.4/10mL	50.3/10mL		
√	44. Copper **	520/15mL	3.7/15mL		

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11]			
		Freshwater	Saltwater		
	45. Lead **	1.3/20mL	8.5/20mL		
	46. Mercury **	0.9/0.2mL	1.1/0.2mL		
√	47. Nickel **	2,380/20mL	8.2/20mL		
	48. Selenium **	5/20mL	71/20mL		
	49. Silver	1.2/10mL	2.2/10mL		
√	50. Zinc **	66.6/15mL	85.6/15mL		
√	51. Iron	5,000/20mL			

	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]
√	65. Weak acid Dissociable Cyanide	>10 ug/L

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

CH2M HILL
25 New Chardon Street
Suite 300
Boston, MA 02114
Tel 617.523.2002
Fax 617.723.9036

November 23, 2010

US Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code OEP06-4
Boston, MA 02109-3912
ATTN: Remediation General Permit NOI Processing

RE: Remediation General Permit Applications
Former Bull HN Information Systems, Inc. Facility
Brighton, Massachusetts

To Whom It May Concern,

On behalf of Honeywell International Inc., CH2M HILL has prepared this Notice of Intent (NOI) for a reapplication for coverage under the Massachusetts Remediation General Permit (RGP) for the Footer Drain (FD) system located at the corner of Guest Street and Life Street in Brighton, Massachusetts. The location of the site is shown on Figure 1. The treated water from the FD system is discharged into a municipal storm drainage system that ultimately discharges to the Charles River. The FD System is currently covered under the 2005 Massachusetts Remediation General Permit (RGP) #MAG910077. On September 9, 2010, the US Environmental Protection Agency published an updated permit (referred to as 2010 RGP). In accordance with the Massachusetts 2010 RGP, operators that are currently operating under the 2005 RGP must re-apply for coverage by submitting an NOI under the updated 2010 RGP.

The FD system is expected to be classified as a Category VI - Miscellaneous Related Discharge (Subcategory D - Long-Term Remediation of Contaminated Sumps and Dikes). The influent to the FD system was sampled in September 2010 for the select constituents listed in Appendix III of the RGP and sampling results for the influent are included within this NOI.

If you require any additional information or would like to discuss the plans for this system, please contact either of the undersigned at (617) 523-2260.

Sincerely,

Lynne Tseng
Project Manager

John D. Rendall, P.E., L.S.P., L.E.P.
Vice President

encl: Figure 1: Site Location
Figure 2: Boston Utility Drainage Area Map
Figure 3: Footer Drain Treatment System
Figure 4: Water Supply Protection Area
Exhibit 1: Laboratory Analytical Report
Exhibit 2: Dilution Factor Calculations
Exhibit 3: MSDS Sheets
Exhibit 4: Fish and Wildlife Services Species of Concern

cc: Mr. Prashant Gupta, Honeywell International Inc.
Mr. George Papadopoulos, EPA New England
Massachusetts Department of Environmental Protection

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**: Former Bull HN Information Systems		**Facility/site** mailing address:		
Location of **facility/site**: longitude: -71.146199 latitude: 42.356982	Facility SIC code(s): (Remediation)	Street: 38 Life Street		
b) Name of **facility/site owner:**		Town: Brighton 02135		
Email address of facility/site owner: Prashant.Gupta@Honeywell.com		State: MA	Zip: 02135	County: Suffolk
Telephone no. of facility/site **owner**: 804-530-6211				
Fax no. of facility/site **owner**:		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ○ 3. Private ◉ 4. Other ○ if so, describe:		
Address of **owner** (if different from site):				
Street: Building 1-1-21 4101 Bermuda Hundred Road				
Town: Chester	State: VA	Zip: 23836	County: Chesterfield	
c) Legal name of **operator**:	**Operator** telephone no: 508-968-4670			
James Redmond	**Operator** fax no.:	**Operator** email: james.redmond@ch2m.com		
Operator contact name and title: Jim Redmond/Assistant Chief Operator				
Address of **operator** (if different from owner):	Street: 1748 West Truck Road			
Town: Otis ANG Base	State: MA	Zip: 02542	County: Barnstable	

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: 97-122
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge?
Y ⊙ N ○, if Y, date and tracking #: Permit #MAG910077
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 3-0000158
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:

Massachusetts Department of Environmental Protection
One Winter Street
Boston, MA 02108, 617-292-5500

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

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

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

Activity Category	**Activity Sub-Category**
I - Petroleum Related Site Remediation	A. Gasoline Only Sites ☐ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ☐ C. Petroleum Sites with Additional Contamination ☐
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites ☐ B. VOC Sites with Additional Contamination ☐ C. Primarily Heavy Metal Sites ☐
III - Contaminated Construction Dewatering	A. General Urban Fill Sites ☐ B. Known Contaminated Sites ☐

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites ☐ B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites ☐ C. Hydrostatic Testing of Pipelines and Tanks ☐ D. Long-Term Remediation of Contaminated Sumps and Dikes ☒ E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) ☐

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as necessary) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:

Discharge of treated sump water from the footer of a building

b) Provide the following information about each discharge:

1) Number of discharge points: 1

2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)?
Max. flow 0.022 cfs Is maximum flow a **design value**? Y ◉ N ○
Average flow (include units) 0.0006012 cfs Is average flow a design value or estimate? Actual

3) Latitude and longitude of each discharge within 100 feet:
pt.1: lat 42.356747 long 71.147594 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 Sep 9, 2010 end Sep 9, 2015

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

3. Contaminant information.

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

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids (TSS)		☒	☐								
2. Total Residual Chlorine (TRC)		☒	☐								
3. Total Petroleum Hydrocarbons (TPH)		☒	☐								
4. Cyanide (CN)	57125	☐	☒	1	grab	EPA 335.4	10 ug/L	88	0.0048	88	0.000130
5. Benzene (B)	71432	☒	☐								
6. Toluene (T)	108883	☒	☐								
7. Ethylbenzene (E)	100414	☒	☐								
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☒	☐								
9. Total BTEX [2]	n/a	☒	☐								
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐								
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐								
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐								

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

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

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

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
13. tert-Amyl Methyl Ether (TAME)	9940508	☒	☐								
14. Naphthalene	91203	☒	☐								
15. Carbon Tetrachloride	56235	☒	☐								
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐								
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐								
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐								
18a. Total dichlorobenzene		☒	☐								
19. 1,1 Dichloroethane (DCA)	75343	☐	☒	1	grab	E624	1 ug/L	29.4	0.0016	29.4	0.00004
20. 1,2 Dichloroethane (DCA)	107062	☐	☒	1	grab	E624	1 ug/L	0.67	0.000037	0.67	0.000001
21. 1,1 Dichloroethene (DCE)	75354	☐	☒	1	grab	E624	1 ug/L	4.1	0.00022	4.1	0.000006
22. cis-1,2 Dichloroethene (DCE)	156592	☐	☒	1	grab	E624	5 ug/L	101	0.0055	101	0.00015
23. Methylene Chloride	75092	☒	☐								
24. Tetrachloroethene (PCE)	127184	☒	☐								
25. 1,1,1 Trichloro-ethane (TCA)	71556	☐	☒	1	grab	E624	1 ug/L	3.1	0.00017	3.1	0.000005
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐								
27. Trichloroethene (TCE)	79016	☐	☒	1	grab	E624	1 ug/L	12.8	0.00070	12.8	0.00002

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
28. Vinyl Chloride (Chloroethene)	75014	☒	☐								
29. Acetone	67641	☒	☐								
30. 1,4 Dioxane	123911	☐	☒	1	grab	E624	5 ug/L	82	0.0045	82	0.00012
31. Total Phenols	108952	☒	☐								
32. Pentachlorophenol (PCP)	87865	☒	☐								
33. Total Phthalates (Phthalate esters) [4]		☒	☐								
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐								
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐								
a. Benzo(a) Anthracene	56553	☐	☐								
b. Benzo(a) Pyrene	50328	☐	☐								
c. Benzo(b)Fluoranthene	205992	☐	☐								
d. Benzo(k)Fluoranthene	207089	☐	☐								
e. Chrysene	21801	☐	☐								
f. Dibenzo(a,h)anthracene	53703	☐	☐								
g. Indeno(1,2,3-cd) Pyrene	193395	☐	☐								
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐								

[4] The sum of individual phthalate compounds.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
h. Acenaphthene	83329	☐	☐								
i. Acenaphthylene	208968	☐	☐								
j. Anthracene	120127	☐	☐								
k. Benzo(ghi) Perylene	191242	☐	☐								
l. Fluoranthene	206440	☐	☐								
m. Fluorene	86737	☐	☐								
n. Naphthalene	91203	☐	☐								
o. Phenanthrene	85018	☐	☐								
p. Pyrene	129000	☐	☐								
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐								
38. Chloride	16887006	☐	☒	1	grab	SM21 4500CL	20 mg/L	905,000	49.40	905,000	1.33
39. Antimony	7440360	☒	☐								
40. Arsenic	7440382	☒	☐								
41. Cadmium	7440439	☒	☐								
42. Chromium III (trivalent)	16065831	☒	☐								
43. Chromium VI (hexavalent)	18540299	☒	☐								
44. Copper	7440508	☐	☒	1	grab	6020A	8 ug/L	8.7	0.00048	8.7	0.000013
45. Lead	7439921	☒	☐								
46. Mercury	7439976	☒	☐								
47. Nickel	7440020	☐	☒	1	grab	6020A	8 ug/L	16.7	0.00091	16.7	0.000025
48. Selenium	7782492	☒	☐								
49. Silver	7440224	☒	☐								
50. Zinc	7440666	☐	☒	1	grab	6020A	8 ug/L	12.7	0.00069	12.7	0.000019
51. Iron	7439896	☐	☒								
Other (describe):		☐	☒								

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
Weak Acid Dissociable Cyanide		☐	☒	1	grab	SM20 4500CNI	10 ug/L	25	0.0014	25	0.000037
		☐	☐								

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

Step 1: Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y ◉ N ○	If yes, which metals? Iron
Step 2: For any metals which exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metal: Iron DF: 1059.3 Metal: DF: Metal: DF: Metal: DF: Etc.	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ○ N ◉ If Y, list which metals:

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

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

The treatment system consists of one sump pump, a bag filter, two liquid GAC tanks, and two ion exchange resin tanks, which include a prefilter. Following treatment, the groundwater is discharged to a stormwater catch basin at the site, which subsequently discharges to the Charles River.

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):	Ion Exchange Resin Tanks		

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 0.27 gpm Maximum flow rate of treatment system 10 gpm
Design flow rate of treatment system 10 gpm

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

No chemical additives used.

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:
Groundwater is discharged into a stormdrain which empties into storm drain 24D105. Water line ultimately flows into Charles River and discharged at outfall 25E037

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

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

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 23.6 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

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

Is there a final TMDL? Y ⊙ N ○ If yes, for which pollutant(s)? Priority Organics, Metals, Nutrients, DO, Oil and Grease, Taste, Odor, Color, Noxious Aquatic Plants, Turbidity and Pathogens

6. ESA and NHPA Eligibility.

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

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

A ◉ B ○ C ○ D ○ E ○ F ○

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

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

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

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

1 ◉ 2 ○ 3 ○

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

7. Supplemental information.

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

Figure 1 - Site Location
Figure 2 - Boston Utility Drainage Area Map
Figure 3 - Footer Drain Treatment System
Figure 4 - Water Supply Protection Area
Exhibit 1 - Laboratory Analytical Report
Exhibit 2 - Dilution Factor Calculations
Exhibit 3 - MSDS Sheets
Exhibit 4 - Fish and Wildlife Services Species of Concern

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:	Former Bull HN Information Systems
Operator signature:	
Printed Name &Title:	James K. Redmond/Assistant Cheif Operater
Date:	11/23/2010

B. Submission of NOI to EPA - All operators applying for coverage under this General Permit must submit a completed Notice of Intent (NOI) to EPA. Signed and completed NOI forms and attachments must be submitted to EPA-NE at:

U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code OEP06-4
Boston, MA 02109-3912
ATTN: Remediation General Permit NOI Processing

or electronically mailed to NPDES.Generalpermits@epa.gov

or faxed to the EPA Office at 617-918-0505

If filling out the suggested NOI form electronically on EPA's website, the signature page must be signed and faxed or mailed to EPA at the fax number and/or address listed above.

1. Filing with the states - A copy of any NOI form filed with EPA-NE must also be filed with state agencies. The state agency may elect to develop a state specific form or other information requirements.

a) Discharges in Massachusetts - In addition to the NOI, permit applicants must submit copies of the State Application Form BRPWM 12, Request for General Permit coverage for the RGP. The application form and the Transmittal Form for Permit Application and Payment may be obtained from the Massachusetts Department of Environmental Protection (MassDEP) website at www.state.ma.us/dep. Municipalities are fee-exempt, but should send a copy of the transmittal form to that address for project tracking purposes. All applicants should keep a copy of the transmittal form and a copy of the application package for their records.

1) A copy of the NOI, the transmittal form, a copy of the check, and Form BRPWM 12 should be sent to:

Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street, 2nd floor
Worcester, MA 01608

2) A copy of the transmittal form and the appropriate fee should be sent to:

Massachusetts Department of Environmental Protection
P.O. Box 4062
Boston, MA 02111

Please note: Applicants for discharges in Massachusetts should note that under 310 CMR 40.000, *as a matter of state law*, the general permit only applies to discharges that are **not** subject to the

Massachusetts Contingency Plan (MCP) and 310 CMR 40.000. Therefore, discharges subject to the MCP are **not** required to fill out and submit the State Application Form BRPWM 12 or pay the state fees. However, they must submit a NOI to EPA.

b) Discharges in New Hampshire - applicants must provide a copy of the Notice of Intent to:

New Hampshire Department of Environmental Services
Water Division
Wastewater Engineering Bureau
P.O. Box 95
Concord, New Hampshire 03302-0095.

2. Filing with Municipalities - A copy of the NOI must be submitted to the municipality in which the proposed discharge would be located.

Figures

Source:
Google Earth
Date Created: November 21, 2007

Figure 1
Site Location
Former Bull HN Information Systems Facility

Charles River Outfall Location

Stormdrain Line

Location of Treatment Plant

25E037

25D040

24D150

26F038

26G001

24D032

24G035

VICINITY MAP

LEGEND

SEWER SYSTEM FEATURES
- CATCH BASIN
- OUTFALL

SEWER SYSTEM MANHOLES
- COMBINED
- COMBINED SEWER OVERFLOW
- SANITARY
- STORM
- UNKNOWN

SEWER PIPES
- SANITARY
- STORM
- COMBINED
- COMBINED SEWER OVERFLOW
- CATCHBASIN PIPE

TRANSPORTATION FEATURES
- CURBLINE
- BRIDGE
- RAILROAD
- SIDEWALK/WALKWAY
- TUNNEL

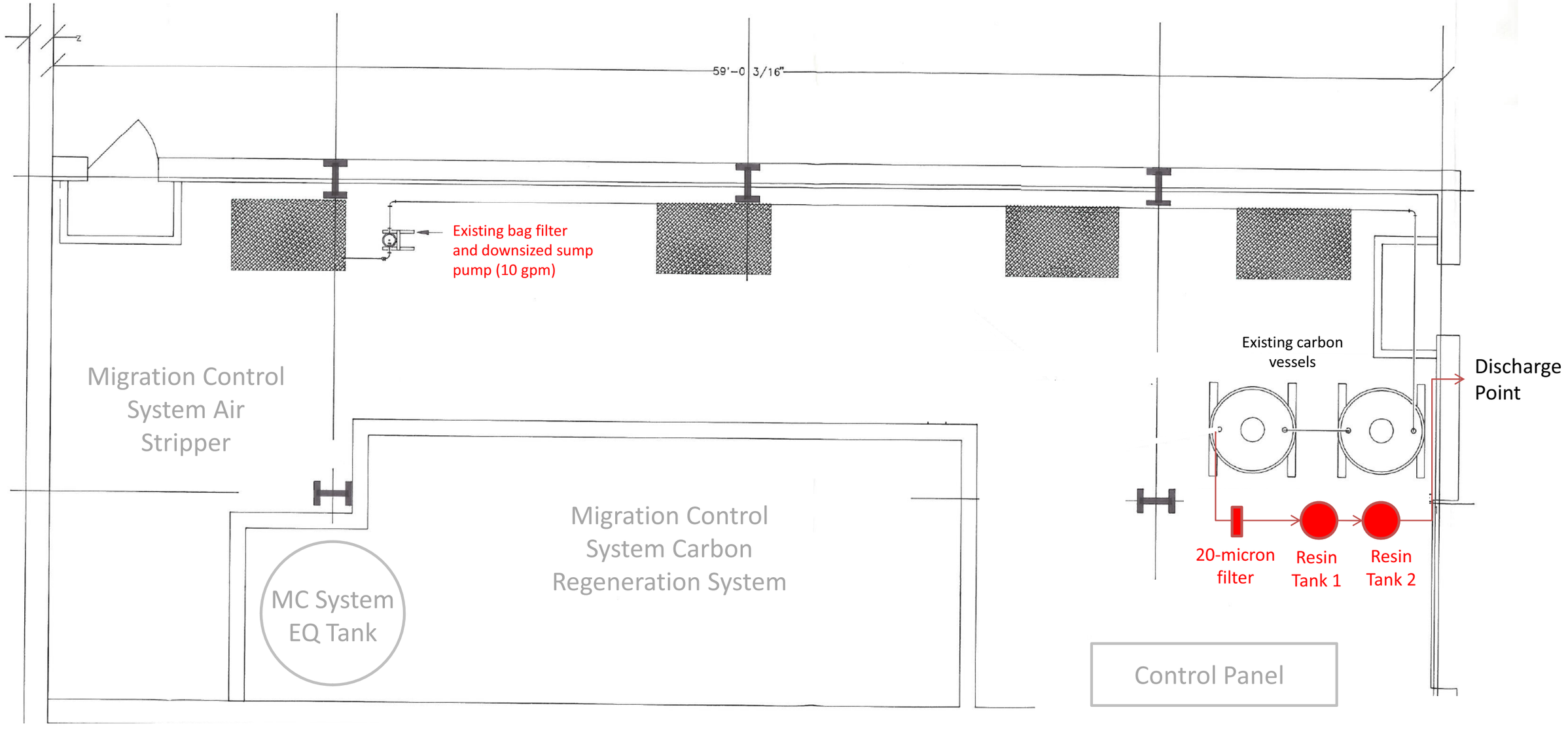
BASEMAP FEATURES
- HYDROGRAPHY
- DRAINAGE AREA
- PARKING AREA
- BUILDING

N

0 160 320 480
FEET

FIGURE 2
Boston Utility Drainage Area Map
Former Bull HN Information Systems Facility
Reference: BWSC GIS (April 2009)

CH2MHILL



Approximate Scale (Feet)

3 0 3 6 12

Figure 3
Footer Drain Treatment System

Water Supply Protection Areas Map

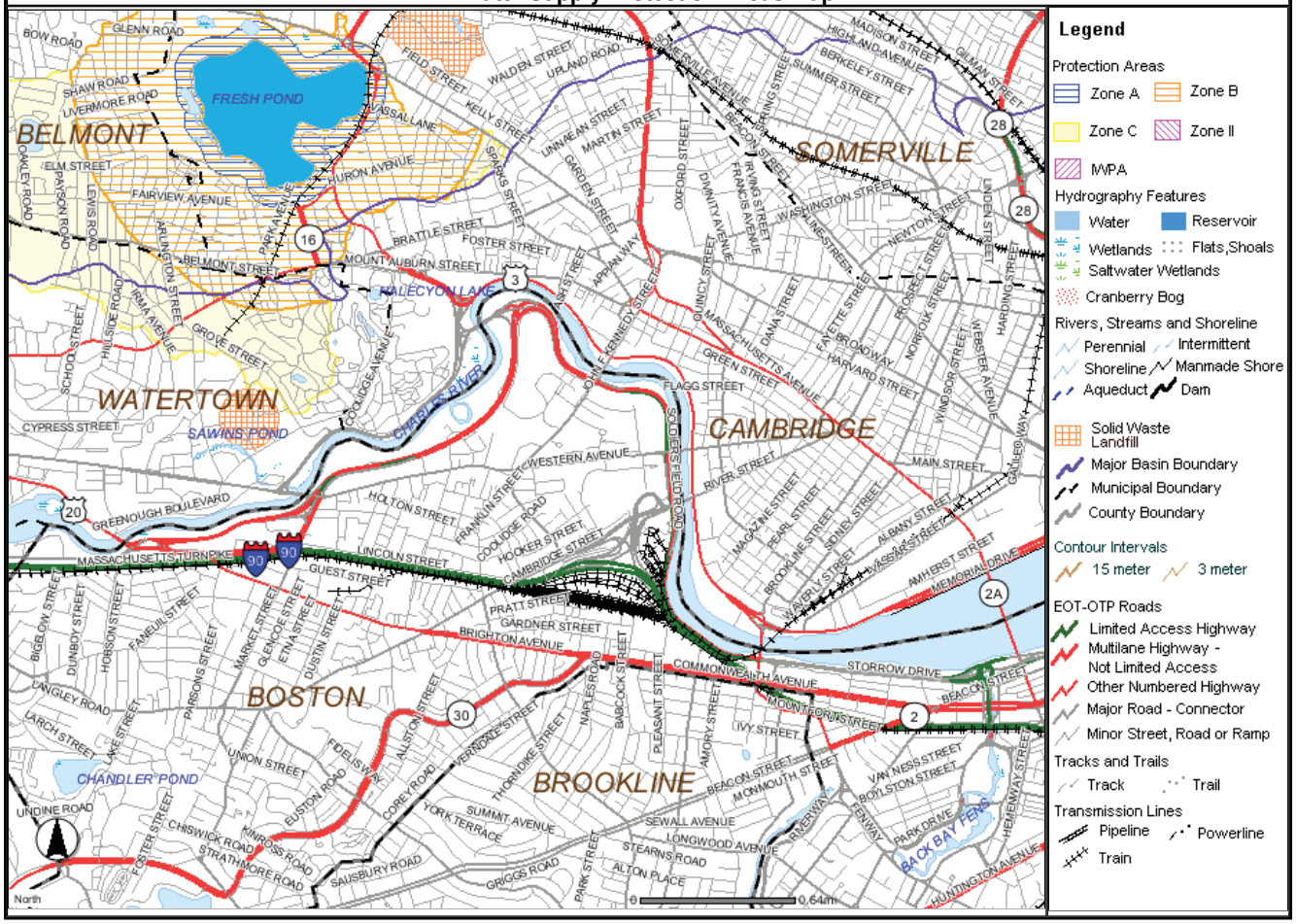


FIGURE 4
Water Supply Protection Area
Former Bull HN Information Systems Facility
Reference: MassGIS (October 2010)

CH2MHILL

Exhibit 1 – Laboratory Analytical Report

New England ACCUTEST LABORATORIES

10/07/10

Technical Report for

Honeywell International Inc.

CHMHLMAB:Brighton MA

Accutest Job Number: M94572

Sampling Date: 09/28/10

Report to:

ltseng@ch2m.com
aklopper@ch2m.com
Kyle.Block@ch2m.com

ATTN: Distribution6

Total number of pages in report: **84**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Steve Grant 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (002) ND (R-188) CO MN (11546AA) NC (653) IL (002337) DoD/ISO/IEC 17025:2005 (L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6 7 8 9 10 11 12

Table of Contents

Table of Contents

Sample Summary

Honeywell International Inc.

CHMHLMAB:Brighton MA

Job No: M94572

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M94572-1	09/28/10	09:31		09/28/10	AQ	Ground Water	INF-092810-FD
M94572-2	09/28/10	00:00		09/28/10	AQ	Trip Blank Water	TB-092810
M94572-3	09/28/10	08:05		09/28/10	AQ	Ground Water	INF-0992810-MC
M94572-3A	09/28/10	08:05		09/28/10	AQ	Ground Water	INF-0992810-MC

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Honeywell International Inc. **Job No** M94572

Site: CHMHLMAB:Brighton MA **Report Date** 10/7/2010 12:53:33 PM

2 Sample(s), 1 Trip Blank(s) were collected on 09/28/2010 and were received at Accutest on 09/28/2010 properly preserved, at 1 Deg. C and intact. These Samples received an Accutest job number of M94572. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method EPA 624

Matrix AQ **Batch ID:** MSG4055

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94544-1MS, M94544-1MSD were used as the QC samples indicated.
- MS/MSD Recovery(s) for cis-1,2-Dichloroethene, Tertiary Butyl Alcohol are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Only selected compounds requested.

Matrix AQ **Batch ID:** MSG4056

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94572-3MS, M94572-3MSD were used as the QC samples indicated.
- MS/MSD Recovery(s) for 1,1,1-Trichloroethane are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Only selected compounds requested.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP22833

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Only selected compounds requested.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix AQ **Batch ID:** OP22834

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Initial calibration verification standard MSI2346-ICV2346 for Phenol-d5 exceeds 30% Difference
- Continuing calibration check standard MSI2362-CC2346 for 2,4,6-Tribromophenol exceed 20% Difference. This check standard met MCP criteria.
- Only selected compounds requested.

Volatiles by GC By Method EPA 504

Matrix AQ **Batch ID:** OP22823

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M94535-13MS, M94535-13MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- OP22823-BS/BSD/MS/MSD for 1,2-Dibromoethane: Samples are non-detect for analyte.
- M94572-1 for Bromofluorobenzene (S): Outside control limits due to possible matrix interference.

Extractables by GC By Method EPA 608

Matrix AQ **Batch ID:** OP22841

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94706-2MS, M94706-2MSD were used as the QC samples indicated.

Metals By Method EPA 200.7

Matrix AQ **Batch ID:** MP15995

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94593-1DUP, M94593-1MS, M94593-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Chromium, Iron are outside control limits for sample MP15995-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Metals By Method EPA 245.1

Matrix AQ **Batch ID:** MP15985

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94514-1MS, M94514-1DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Mercury are outside control limits for sample MP15985-D1. RPD acceptable due to low duplicate and sample concentrations.

Metals By Method SW846 6020A

Matrix AQ **Batch ID:** N:MP54994

- Analysis performed at Accutest Laboratories, Dayton, NJ.

Wet Chemistry By Method 6010/7196A M/200.7

Matrix AQ **Batch ID:** R27409

- M94572-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Wet Chemistry By Method EPA 1664

Matrix	AQ	Batch ID:	GP12095

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94612-1DUP, M94612-1MS were used as the QC samples for HEM Petroleum Hydrocarbons.

Wet Chemistry By Method EPA 420.1

Matrix	AQ	Batch ID:	GP12085

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94572-1DUP, M94572-1MS were used as the QC samples for Phenols.

Wet Chemistry By Method SM21 2540D

Matrix	AQ	Batch ID:	GN32951

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94512-1DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method SM21 4500CL C

Matrix	AQ	Batch ID:	GN32993

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94572-1DUP, M94572-1MS were used as the QC samples for Chloride.

Wet Chemistry By Method SM21 4500CL F

Matrix	AQ	Batch ID:	GN32940

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94572-1DUP, M94572-1MS were used as the QC samples for Total Residual Chlorine.

Wet Chemistry By Method SW846 7196A

Matrix	AQ	Batch ID:	GN32939

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94574-1DUP, M94574-1MS were used as the QC samples for Chromium, Hexavalent.

Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percents solids.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M94572).

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Accutest Labs of New England, Inc.	**Job No**	M94572
Site:	HWIMAB: CHMHLMAB:Brighton MA	**Report Date**	10/5/2010 11:21:09 AM

On 09/28/2010, 1 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3.4 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of M94572 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method SW846 6020A

Matrix: AQ **Batch ID:** MP54994

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94520-2SDL, M94520-2MS, M94520-2MSD, M94520-2SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Antimony, Nickel, Zinc are outside control limits for sample MP54994-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	INF-092810-FD		
Lab Sample ID:	M94572-1	**Date Sampled:**	09/28/10
Matrix:	AQ - Ground Water	**Date Received:**	09/28/10
Method:	EPA 624	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G100480.D	1	10/01/10	EL	n/a	n/a	MSG4055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.7	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.27	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.94	ug/l	
75-34-3	1,1-Dichloroethane	29.4	1.0	0.25	ug/l	
107-06-2	1,2-Dichloroethane	0.67	1.0	0.28	ug/l	J
75-35-4	1,1-Dichloroethene	4.1	1.0	0.63	ug/l	
156-59-2	cis-1,2-Dichloroethene	101	5.0	0.22	ug/l	
123-91-1	1,4-Dioxane	82.0	5.0	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.14	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tertiary Butyl Alcohol	ND	20	5.2	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.28	ug/l	
71-55-6	1,1,1-Trichloroethane	3.1	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.33	ug/l	
79-01-6	Trichloroethene	12.8	1.0	0.28	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	116%		80-140%
2037-26-5	Toluene-D8 (SUR)	105%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	101%		70-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF-092810-FD		
Lab Sample ID:	M94572-1	**Date Sampled:**	09/28/10
Matrix:	AQ - Ground Water	**Date Received:**	09/28/10
Method:	EPA 504 EPA 504	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB32960.D	1	10/03/10	SL	10/02/10	OP22823	GBB2159
Run #2							

	Initial Volume	Final Volume
Run #1	37.5 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.014	0.013	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	220% [a]		59-170%
460-00-4	Bromofluorobenzene (S)	201% [a]		59-170%

(a) Outside control limits due to possible matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF-092810-FD		
Lab Sample ID:	M94572-1	**Date Sampled:**	09/28/10
Matrix:	AQ - Ground Water	**Date Received:**	09/28/10
Method:	EPA 608 EPA 608	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ60909.D	1	10/06/10	CZ	10/04/10	OP22841	GYZ2595
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.52	0.030	ug/l	
11104-28-2	Aroclor 1221	ND	0.52	0.062	ug/l	
11141-16-5	Aroclor 1232	ND	0.52	0.078	ug/l	
53469-21-9	Aroclor 1242	ND	0.52	0.037	ug/l	
12672-29-6	Aroclor 1248	ND	0.52	0.060	ug/l	
11097-69-1	Aroclor 1254	ND	0.52	0.069	ug/l	
11096-82-5	Aroclor 1260	ND	0.52	0.024	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		31-154%
877-09-8	Tetrachloro-m-xylene	102%		31-154%
2051-24-3	Decachlorobiphenyl	102%		10-148%
2051-24-3	Decachlorobiphenyl	101%		10-148%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF-092810-FD		
Lab Sample ID:	M94572-1	**Date Sampled:**	09/28/10
Matrix:	AQ - Ground Water	**Date Received:**	09/28/10
		Percent Solids:	n/a
Project:	CHMHLMAB:Brighton MA		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.97 B	1.0	0.16	ug/l	2	10/02/10	10/04/10	ANJ	SW846 6020A [3]	SW846 3010A [6]
Arsenic [a]	0.82 B	2.0	0.36	ug/l	2	10/02/10	10/04/10	ANJ	SW846 6020A [3]	SW846 3010A [6]
Cadmium [a]	0.13 U	1.0	0.13	ug/l	2	10/02/10	10/04/10	ANJ	SW846 6020A [3]	SW846 3010A [6]
Chromium	2.1 B	10	0.53	ug/l	1	10/01/10	10/05/10	DA	EPA 200.7 [2]	EPA 200.7 [5]
Copper [a]	8.7	8.0	0.46	ug/l	2	10/02/10	10/04/10	ANJ	SW846 6020A [3]	SW846 3010A [6]
Iron	82.3 B	100	5.2	ug/l	1	10/01/10	10/05/10	DA	EPA 200.7 [2]	EPA 200.7 [5]
Lead [a]	0.18 B	1.0	0.050	ug/l	2	10/02/10	10/04/10	ANJ	SW846 6020A [3]	SW846 3010A [6]
Mercury	0.047 U	0.20	0.047	ug/l	1	09/29/10	09/29/10	MA	EPA 245.1 [1]	EPA 245.1 [4]
Nickel [a]	16.7	8.0	0.23	ug/l	2	10/02/10	10/04/10	ANJ	SW846 6020A [3]	SW846 3010A [6]
Selenium [a]	1.0 B	2.5	0.28	ug/l	5	10/02/10	10/04/10	ANJ	SW846 6020A [3]	SW846 3010A [6]
Silver [a]	0.099 U	4.0	0.099	ug/l	2	10/02/10	10/04/10	ANJ	SW846 6020A [3]	SW846 3010A [6]
Zinc [a]	12.7	8.0	1.7	ug/l	2	10/02/10	10/04/10	ANJ	SW846 6020A [3]	SW846 3010A [6]

(1) Instrument QC Batch: MA12259
(2) Instrument QC Batch: MA12276
(3) Instrument QC Batch: N:MA25126
(4) Prep QC Batch: MP15985
(5) Prep QC Batch: MP15995
(6) Prep QC Batch: N:MP54994

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	INF-092810-FD		
Lab Sample ID:	M94572-1	**Date Sampled:**	09/28/10
Matrix:	AQ - Ground Water	**Date Received:**	09/28/10
		Percent Solids:	n/a
Project:	CHMHLMAB:Brighton MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	905	20	mg/l	20	10/04/10	CF	SM21 4500CL C
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	09/29/10 09:00	MC	SW846 7196A
Chromium, Trivalent [a]	< 0.020	0.020	mg/l	1	10/05/10 06:21	DA	6010/7196A M/200.7
HEM Petroleum Hydrocarbons	< 4.1	4.1	mg/l	1	10/05/10	BF	EPA 1664
Phenols	< 0.050	0.050	mg/l	1	10/01/10	BF	EPA 420.1
Solids, Total Suspended	< 4.0	4.0	mg/l	1	09/30/10	BF	SM21 2540D
Total Residual Chlorine	< 0.050	0.050	mg/l	1	09/29/10 10:16	MC	SM21 4500CL F

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TB-092810		
Lab Sample ID:	M94572-2	**Date Sampled:**	09/28/10
Matrix:	AQ - Trip Blank Water	**Date Received:**	09/28/10
Method:	EPA 624	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G100481.D	1	10/01/10	EL	n/a	n/a	MSG4055
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.7	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.27	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.94	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.63	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.22	ug/l	
123-91-1	1,4-Dioxane	ND	5.0	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.14	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tertiary Butyl Alcohol	ND	20	5.2	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.28	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.33	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.28	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	121%		80-140%
2037-26-5	Toluene-D8 (SUR)	105%		80-120%
460-00-4	4-Bromofluorobenzene (SUR)	102%		70-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF-0992810-MC		
Lab Sample ID:	M94572-3	**Date Sampled:**	09/28/10
Matrix:	AQ - Ground Water	**Date Received:**	09/28/10
Method:	EPA 624	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G100482.D	1	10/01/10	EL	n/a	n/a	MSG4055
Run #2	G100514.D	10	10/05/10	EL	n/a	n/a	MSG4056

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.7	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.27	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.94	ug/l	
75-34-3	1,1-Dichloroethane	36.9	1.0	0.25	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethene	201	1.0	0.63	ug/l	
156-59-2	cis-1,2-Dichloroethene	32.0	5.0	0.22	ug/l	
123-91-1	1,4-Dioxane	ND	5.0	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.14	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tertiary Butyl Alcohol	ND	20	5.2	ug/l	
127-18-4	Tetrachloroethene	4.8	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.28	ug/l	
71-55-6	1,1,1-Trichloroethane	1460 [a]	10	2.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.33	ug/l	
79-01-6	Trichloroethene	653 [a]	10	2.8	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	121%	125%	80-140%
2037-26-5	Toluene-D8 (SUR)	106%	106%	80-120%
460-00-4	4-Bromofluorobenzene (SUR)	102%	101%	70-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF-0992810-MC		
Lab Sample ID:	M94572-3	**Date Sampled:**	09/28/10
Matrix:	AQ - Ground Water	**Date Received:**	09/28/10
Method:	EPA 624	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF-0992810-MC		
Lab Sample ID:	M94572-3	**Date Sampled:**	09/28/10
Matrix:	AQ - Ground Water	**Date Received:**	09/28/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F49778.D	1	10/06/10	PR	10/04/10	OP22833	MSF2375
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl benzyl phthalate	ND	5.2	0.43	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	0.35	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	0.35	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	0.64	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	87%		30-130%
321-60-8	2-Fluorobiphenyl	81%		30-130%
1718-51-0	Terphenyl-d14	88%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF-0992810-MC		
Lab Sample ID:	M94572-3	**Date Sampled:**	09/28/10
Matrix:	AQ - Ground Water	**Date Received:**	09/28/10
Method:	EPA 608 EPA 608	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ60910.D	1	10/06/10	CZ	10/04/10	OP22841	GYZ2595
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.52	0.030	ug/l	
11104-28-2	Aroclor 1221	ND	0.52	0.062	ug/l	
11141-16-5	Aroclor 1232	ND	0.52	0.078	ug/l	
53469-21-9	Aroclor 1242	ND	0.52	0.037	ug/l	
12672-29-6	Aroclor 1248	ND	0.52	0.060	ug/l	
11097-69-1	Aroclor 1254	ND	0.52	0.069	ug/l	
11096-82-5	Aroclor 1260	ND	0.52	0.024	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	100%		31-154%
877-09-8	Tetrachloro-m-xylene	99%		31-154%
2051-24-3	Decachlorobiphenyl	97%		10-148%
2051-24-3	Decachlorobiphenyl	98%		10-148%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF-0992810-MC		
Lab Sample ID:	M94572-3	**Date Sampled:**	09/28/10
Matrix:	AQ - Ground Water	**Date Received:**	09/28/10
		Percent Solids:	n/a
Project:	CHMHLMAB:Brighton MA		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Copper [a]	12.5	8.0	0.46	ug/l	2	10/02/10	10/04/10	ANJ	SW846 6020A [2]	SW846 3010A [4]
Iron	173	100	5.2	ug/l	1	10/01/10	10/05/10	DA	EPA 200.7 [1]	EPA 200.7 [3]
Lead [a]	0.18 B	1.0	0.050	ug/l	2	10/02/10	10/04/10	ANJ	SW846 6020A [2]	SW846 3010A [4]
Nickel [a]	20.6	8.0	0.23	ug/l	2	10/02/10	10/04/10	ANJ	SW846 6020A [2]	SW846 3010A [4]
Zinc [a]	2.6 B	8.0	1.7	ug/l	2	10/02/10	10/04/10	ANJ	SW846 6020A [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA12276
(2) Instrument QC Batch: N:MA25126
(3) Prep QC Batch: MP15995
(4) Prep QC Batch: N:MP54994

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	INF-0992810-MC		
Lab Sample ID:	M94572-3	**Date Sampled:**	09/28/10
Matrix:	AQ - Ground Water	**Date Received:**	09/28/10
		Percent Solids:	n/a
Project:	CHMHLMAB:Brighton MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Petroleum Hydrocarbons	< 4.1	4.1	mg/l	1	10/05/10	BF	EPA 1664
Phenols	< 0.050	0.050	mg/l	1	10/01/10	BF	EPA 420.1

RL = Reporting Limit

Report of Analysis

Client Sample ID:	INF-0992810-MC		
Lab Sample ID:	M94572-3A	**Date Sampled:**	09/28/10
Matrix:	AQ - Ground Water	**Date Received:**	09/28/10
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68287.D	1	10/06/10	AA	10/04/10	OP22834	MSI2362
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0		ug/l	
83-32-9	Acenaphthene	ND	0.10	0.012	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.029	ug/l	
120-12-7	Anthracene	ND	0.10	0.027	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.011	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.014	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.010	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.015	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.012	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.017	ug/l	
86-73-7	Fluorene	ND	0.10	0.046	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.013	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	0.013	ug/l	
91-20-3	Naphthalene	ND	0.10	0.011	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.013	ug/l	
129-00-0	Pyrene	ND	0.10	0.021	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		15-110%
4165-62-2	Phenol-d5	20%		15-110%
118-79-6	2,4,6-Tribromophenol	67%		15-110%
4165-60-0	Nitrobenzene-d5	64%		30-130%
321-60-8	2-Fluorobiphenyl	62%		30-130%
1718-51-0	Terphenyl-d14	63%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle

Parameter Certification Exceptions

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
tert-Amyl Methyl Ether	994-05-8	**EPA 624**	AQ	Certified by SOP MMS134/GC-MS
cis-1,2-Dichloroethene	156-59-2	**EPA 624**	AQ	Certified by SOP MMS134/GC-MS
Methyl Tert Butyl Ether	1634-04-4	**EPA 624**	AQ	Certified by SOP MMS134/GC-MS
Tertiary Butyl Alcohol	75-65-0	**EPA 624**	AQ	Certified by SOP MMS134/GC-MS

Parameter Certifications

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

The following parameters included in this report are certified by the state of MA.

Parameter	CAS#	Method	Mat	Certification Status
Benzene	71-43-2	**EPA 624**	AQ	Accutest is certified for this parameter.
Carbon tetrachloride	56-23-5	**EPA 624**	AQ	Accutest is certified for this parameter.
1,1-Dichloroethane	75-34-3	**EPA 624**	AQ	Accutest is certified for this parameter.
1,2-Dichlorobenzene	95-50-1	**EPA 624**	AQ	Accutest is certified for this parameter.
1,2-Dichloroethane	107-06-2	**EPA 624**	AQ	Accutest is certified for this parameter.
1,3-Dichlorobenzene	541-73-1	**EPA 624**	AQ	Accutest is certified for this parameter.
1,4-Dichlorobenzene	106-46-7	**EPA 624**	AQ	Accutest is certified for this parameter.
Ethylbenzene	100-41-4	**EPA 624**	AQ	Accutest is certified for this parameter.
Methylene chloride	75-09-2	**EPA 624**	AQ	Accutest is certified for this parameter.
1,1,1-Trichloroethane	71-55-6	**EPA 624**	AQ	Accutest is certified for this parameter.
1,1,2-Trichloroethane	79-00-5	**EPA 624**	AQ	Accutest is certified for this parameter.
Tetrachloroethene	127-18-4	**EPA 624**	AQ	Accutest is certified for this parameter.
Toluene	108-88-3	**EPA 624**	AQ	Accutest is certified for this parameter.
Trichloroethene	79-01-6	**EPA 624**	AQ	Accutest is certified for this parameter.
Vinyl chloride	75-01-4	**EPA 624**	AQ	Accutest is certified for this parameter.
1,2-Dibromoethane	106-93-4	**EPA 504**	AQ	Accutest is certified for this parameter.
Aroclor 1016	12674-11-2	**EPA 608**	AQ	Accutest is certified for this parameter.
Aroclor 1221	11104-28-2	**EPA 608**	AQ	Accutest is certified for this parameter.
Aroclor 1232	11141-16-5	**EPA 608**	AQ	Accutest is certified for this parameter.
Aroclor 1242	53469-21-9	**EPA 608**	AQ	Accutest is certified for this parameter.
Aroclor 1248	12672-29-6	**EPA 608**	AQ	Accutest is certified for this parameter.
Aroclor 1254	11097-69-1	**EPA 608**	AQ	Accutest is certified for this parameter.
Aroclor 1260	11096-82-5	**EPA 608**	AQ	Accutest is certified for this parameter.
Chromium	7440-47-3	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Iron	7439-89-6	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Mercury	7439-97-6	**EPA 245.1**	AQ	Accutest is certified for this parameter.
Chloride	16887-00-6	**SM21 4500CL C**	AQ	Accutest is certified for this parameter.
Phenols		**EPA 420.1**	AQ	Accutest is certified for this parameter.
Solids, Total Suspended		**SM21 2540D**	AQ	Accutest is certified for this parameter.
Total Residual Chlorine		**SM21 4500CL F**	AQ	Accutest is certified for this parameter.

M94572

Accutest New England
495 Technology Center West, Building One, Marlborough, MA 01752
(508) 481-6200

Honeywell Chain Of Custody / Analysis Request

AESI Ref:	40449.32079
COC#	37558_092810
Lab Proj # (SDG):	
Lab ID	
Site ID	hwbright
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

Sampling Co.:	CH2MHILL	Privileged & Confidential	
Client Contact: (name, co., address)		EDD To:	Sarah Mader/Critigen (Sarah.Mader@critigen.com)
Kevin McGarvey: Kevin.Mcgarvey@ch2m.com		Sampler:	Tim Bakey
25 New Chardon Street, Suite 300		PO #	
Boston, MA 02114		Analysis Turnaround Time (TAT):	7
Preliminary Data To		Consultant	CH2M
Sample Receipt Acknowledgement To			
Hard Copy To	Kyle Block (CD) ; Amy Klopper/Critigen	Full Report TAT:	
Invoice To:	CH2M HILL		

Site Name:	HW - Brighton, MA
Location of Site:	Brighton, MA
Phase:	
Sampling Program	

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#	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	SW8021 by SW8260 - Chlorinated List	E624 VOC (see note 2)	E504.1 EDB	Free Cn by SM4500-CN-I	E608 PCB	E335.2 Total Cn	SW6020 Metals (see note 1) and Hg by 245.2	TRC SM4500-CLD and Chromium (VI) by SM3500-CRD	TSS SM254OD.	Phenolics, Total E420.1	TPH E1664A,	SW8270M Low SVOC-PAH Total Group 1, Group 2 (see note 3)	Chloride	Sampling Method (code)	Lab Sample Numbers
Preservative													2	2	X SP	5	3	11	3	1	1	4	2	1	1		
Units																								TB			
1	INF-FD	-1		INF-092810-FD	9/28/10 TB	9:31	GW	Water	REG	12	grab	N		X	X		X		X	X	X	X	X	TB	X		
2																											
3		-2		TB-092810						4				X	X												
4																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											10D,6B,4B,4K2

Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact	
Timothy Bakey [signature]	Date/Time 9/28/10 1430	CH2M HILL	[signature]	Date/Time		Cooler Temp.			LCD
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact	
[signature]	Date/Time 9/28/10 1630		[signature]	Date/Time		Cooler Temp.			

Preservatives: (Other; Specify): 0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions) See ThiD

Note: 1. SW6020 Metals (1) = Antimony, Arsenic, Cadmium, Chromium (III and Total), Copper, Lead, Nickel Selenium, Silver, Zinc and Iron by 200.7

2. E624 (2) = Acetone, 1,4-Dioxane, Benzene, Toluene, Ethylbenzene, m/p-Xylene, Total BTEX, MTBE, Tert-amyl Methyl Ether (TAME), Tert-butyl alcohol (TBA), carbon tetrachloride, total dicholorobenzene (DCB), 1,2-DCB, 1,3-DCB, 1,4-DCB, 1,1-DCA, 1,2-DCA, 1,1-DCE, cis-1,2-DCE, methylene chloride, PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, vinyl chloride

3. SVCOs (3) = MC-INF Sample: Only Report Pentachlorophenol, Bis(2-ethylhexyl)phthalate, and Total Phthalates.
FD-INF Sample: Pentachlorophenol, Bis(2-ethylhexyl)phthalate, Total Phthalates, Total Group I PAHs and Total Group II PAHs
Total Group I Polycyclic Aromatic Hydrocarbons (PAHs): benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthrancene, indeno(1,2,3-cd)pyrene.
Total Group II PAHs: acenaphthene, acenaphthylene, antrhacene, benzo(ghiperylene, fluoranthene, fluorene, naphthalene, phenanthrene, pyrene,

1.0°C

* Total, Free cyanide; VOCs 8260, & PAHs sampled on 9/16/10

4.3

4

M94572: Chain of Custody
Page 1 of 2

M94572

Honeywell — Chain Of Custody / Analysis Request

Accutest New England 495 Technology Center West, Building One, Marlborough, MA 01752 (508) 481-6200	Privileged & Confidential	Site Name: HW - Brighton, MA	Phase:
Sampling Co.: CH2MHILL	EDD To: Sarah Mader/Critigen (Sarah.Mader@critigen.com)	Location of Site: Brighton, MA	Sampling Program
Client Contact: (name, co., address) Kevin McGarvey; Kevin.Mcgarvey@ch2m.com 25 New Chardon Street, Suite 300 Boston, MA 02114	Sampler: Tim Bakey PO #		
Preliminary Data To Sample Receipt Acknowledgement To Hard Copy To: Kyle Block (CD) ; Amy Klopper/Critigen Invoice To: CH2M HILL	Analysis Turnaround Time (TAT): Consultant 7 CH2M Full Report TAT:		

AESI Ref: 40449.32168
COC#: 37558_92810
Lab Proj # (SDG):
Lab ID:
Site ID: hwbright
Lab Job #:
Authorized User: Honeywell
Text & Excel File Drive: Excel & Text File Order

Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	SW8021 by SW8260 - Chlorinated List	E624 VOC (see note 2)	E504.1 EDB	SW6020 Copper, Lead, Nickel, and Zinc and Iron by 200.7	E608 PCB	E335.2 Total Cyanide	SW6020 Metals (see note 1)	E245.2 Hg, SM3500-CRD and Chromium (VI) by SM3500-CRD	TRC SM4500-CLD	TSS SM2540D	Phenolics, Total E420.1	TPH E1664A	SW8270/M Low SVOC, PAH Total Group 1, Group 2 (see note 3)	Sampling Method (code)	Lab Sample Numbers
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																
										Preservative		2	2	3	3	3	5	3		0	0	4	2	0		
1																										
2																										
3																										
4	INF-MC	-3		INF-0992810-MC	9/28/2010	8:05	GW	Water	REG	10	grab	N	X		X	X						X	X	X		
5										(10)																
6																										
7																										
8																										
9																										
10																										
11																										
12																										

Relinquished by: Timothy Bakey	Company: CH2M HILL	Received by	Company		Condition		Custody Seals Intact
	Date/Time: 9/28/10 1420		Date/Time		Cooler Temp.		
Relinquished by	Company	Received by	Company		Condition		Custody Seals Intact
	Date/Time: 9/28/10 1630		Date/Time		Cooler Temp.		

Preservatives: (Other: Specify):

0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

Note: 1. SW6020 Metals (1) = Antimony, Arsenic, Cadmium, Chromium (III and Total), Copper, Lead, Nickel Selenium, Silver, Zinc and Iron by 200.7

2. E624 (2) = Acetone, 1,4-Dioxane, Benzene, Toluene, Ethylbenzene, m/p-Xylene, Total BTEX, MTBE, Tert-amyl Methyl Ether (TAME), Tert-butyl alcohol (TBA), carbon tetrachloride, total dicholorohenzene (DCB), 1,2-DCB, 1,3-DCB, 1,4-DCB, 1,1-DCA, 1,2-DCA, 1,1-DCE, cis-1,2-DCE, methylene chloride, PCE, 1,1,1-TCA, 1,1,2-TCA, TCE, vinyl chloride

3. SVCOs (3) = MC-INF Sample: Only Report Pentachlorophenol, Bis(2-ethylhexyl)phthalate, and Total Phthalates.
FD-INF Sample: Pentachlorophenol, Bis(2-ethylhexyl)phthalate, Total Phthalates, Total Group I PAHs and Total Group II PAHs
Total Group I Polycyclic Aromatic Hydrocarbons (PAHs): benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthrancene, indeno(1,2,3-cd)pyrene.
Total Group II PAHs: acenaphthene, acenaphthylene, antrhacene, benzo(ghiperylene, fluoranthene, fluorene, naphthalene, phenanthrene, pyrene,

VOCs 8260 sampled on 9/16/10
TB

M94572: Chain of Custody
Page 2 of 2

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	Accutest Laboratories of New England	Project #:	M94572
Project Location:	CHMHLMAB:Brighton MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
M94572-1,M94572-2,M94572-3,M94572-3A

Test method: Refer to case narrative.

Matrices: Groundwater/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

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

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

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

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

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☐ Yes	☑ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No [1]

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

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

Signature: [signature] **Position:** **Laboratory Director**

Printed Name: **Reza Tand** **Date:** **10/07/2010**

Internal Sample Tracking Chronicle

Honeywell International Inc.

CHMHLMAB:Brighton MA

Job No: M94572

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M94572-1	Collected: 28-SEP-10 09:31 By: INF-092810-FD		Received: 28-SEP-10	By: JB		
M94572-1	SW846 7196A	29-SEP-10 09:00	MC			XCR
M94572-1	SM21 4500CL F	29-SEP-10 10:16	MC			TRC
M94572-1	EPA 245.1	29-SEP-10 17:08	MA	29-SEP-10	MA	HG
M94572-1	SM21 2540D	30-SEP-10	BF			TSS
M94572-1	EPA 420.1	01-OCT-10	BF	01-OCT-10	BF	PN
M94572-1	EPA 624	01-OCT-10 17:04	EL			V624SL
M94572-1	EPA 504	03-OCT-10 11:00	SL	02-OCT-10	FC	V504EDB
M94572-1	SM21 4500CL C	04-OCT-10	CF			CHL
M94572-1	SW846 6020A	04-OCT-10 23:34	ANJ	02-OCT-10		AGMS,ASMS,CDMS,CUMS,NIMS, PBMS,SBMS,ZNMS
M94572-1	SW846 6020A	04-OCT-10 23:38	ANJ	02-OCT-10		SEMS
M94572-1	EPA 1664	05-OCT-10	BF	05-OCT-10	BF	PHC1664
M94572-1	EPA 200.7	05-OCT-10 06:21	DA	01-OCT-10	EM	CR,FE
M94572-1	6010/7196A M/200.7	05-OCT-10 06:21	DA			CR3
M94572-1	EPA 608	06-OCT-10 15:58	CZ	04-OCT-10	RJ	P608PCB
M94572-2	Collected: 28-SEP-10 00:00 By: TB-092810		Received: 28-SEP-10	By: JB		
M94572-2	EPA 624	01-OCT-10 17:32	EL			V624SL
M94572-3	Collected: 28-SEP-10 08:05 By: INF-0992810-MC		Received: 28-SEP-10	By: JB		
M94572-3	EPA 420.1	01-OCT-10	BF	01-OCT-10	BF	PN
M94572-3	EPA 624	01-OCT-10 18:01	EL			V624SL
M94572-3	SW846 6020A	04-OCT-10 23:42	ANJ	02-OCT-10		CUMS,NIMS,PBMS,ZNMS
M94572-3	EPA 1664	05-OCT-10	BF	05-OCT-10	BF	PHC1664
M94572-3	EPA 624	05-OCT-10 01:23	EL			V624SL
M94572-3	EPA 200.7	05-OCT-10 06:26	DA	01-OCT-10	EM	FE
M94572-3	EPA 608	06-OCT-10 16:13	CZ	04-OCT-10	RJ	P608PCB
M94572-3	SW846 8270C	06-OCT-10 16:34	PR	04-OCT-10	MS	AB8270SL
M94572-3A	Collected: 28-SEP-10 08:05 By: INF-0992810-MC		Received: 28-SEP-10	By: JB		
M94572-3A	SW846 8270C BY SIM	06-OCT-10 16:21	AA	04-OCT-10	CA	AB8270SIMSL

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4055-MB	G100468.D	1	10/01/10	EL	n/a	n/a	MSG4055

The QC reported here applies to the following samples: **Method:** EPA 624

M94572-1, M94572-2, M94572-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.7	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.31	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.27	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.94	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.63	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.22	ug/l	
123-91-1	1,4-Dioxane	ND	5.0	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.14	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.22	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.17	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tertiary Butyl Alcohol	ND	20	5.2	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.28	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.33	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.28	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.77	ug/l	
	m,p-Xylene	ND	1.0	0.39	ug/l	
95-47-6	o-Xylene	ND	1.0	0.36	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	106%	80-140%
2037-26-5	Toluene-D8 (SUR)	100%	80-120%
460-00-4	4-Bromofluorobenzene (SUR)	99%	70-120%

Method Blank Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4056-MB	G100498.D	1	10/04/10	EL	n/a	n/a	MSG4056

The QC reported here applies to the following samples: **Method:** EPA 624

M94572-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.28	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	102%	80-140%
2037-26-5	Toluene-D8 (SUR)	98%	80-120%
460-00-4	4-Bromofluorobenzene (SUR)	95%	70-120%

Blank Spike Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4055-BS	G100467.D	1	10/01/10	EL	n/a	n/a	MSG4055

The QC reported here applies to the following samples: **Method:** EPA 624

M94572-1, M94572-2, M94572-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	20	15.3	77	30-150
71-43-2	Benzene	20	19.2	96	37-151
56-23-5	Carbon tetrachloride	20	18.7	94	70-140
95-50-1	1,2-Dichlorobenzene	20	18.9	95	18-190
541-73-1	1,3-Dichlorobenzene	20	18.9	95	59-156
106-46-7	1,4-Dichlorobenzene	20	19.5	98	18-190
75-34-3	1,1-Dichloroethane	20	20.0	100	59-155
107-06-2	1,2-Dichloroethane	20	17.7	89	49-155
75-35-4	1,1-Dichloroethene	20	19.8	99	1-234
156-59-2	cis-1,2-Dichloroethene	20	19.7	99	61-128
123-91-1	1,4-Dioxane	100	90.9	91	50-150 [a]
100-41-4	Ethylbenzene	20	19.6	98	37-162
1634-04-4	Methyl Tert Butyl Ether	20	20.7	104	58-141
75-09-2	Methylene chloride	20	19.1	96	1-221
994-05-8	tert-Amyl Methyl Ether	20	20.0	100	50-150 [a]
75-65-0	Tertiary Butyl Alcohol	200	211	106	68-139
127-18-4	Tetrachloroethene	20	18.3	92	64-148
108-88-3	Toluene	20	19.1	96	47-150
71-55-6	1,1,1-Trichloroethane	20	19.7	99	52-162
79-00-5	1,1,2-Trichloroethane	20	18.2	91	52-150
79-01-6	Trichloroethene	20	15.6	78	71-157
75-01-4	Vinyl chloride	20	14.4	72	1-251
	m,p-Xylene	40	39.3	98	77-138
95-47-6	o-Xylene	20	19.1	96	77-133
1330-20-7	Xylenes (total)	60	58.5	98	78-136

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	102%	80-140%
2037-26-5	Toluene-D8 (SUR)	100%	80-120%
460-00-4	4-Bromofluorobenzene (SUR)	102%	70-120%

(a) Advisory control limits.

Blank Spike Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG4056-BS	G100496.D	1	10/04/10	EL	n/a	n/a	MSG4056

The QC reported here applies to the following samples: **Method:** EPA 624

M94572-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-55-6	1,1,1-Trichloroethane	20	18.4	92	52-162
79-01-6	Trichloroethene	20	16.4	82	71-157

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	97%	80-140%
2037-26-5	Toluene-D8 (SUR)	97%	80-120%
460-00-4	4-Bromofluorobenzene (SUR)	97%	70-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M94544-1MS	G100483.D	5	10/01/10	EL	n/a	n/a	MSG4055
M94544-1MSD	G100484.D	5	10/01/10	EL	n/a	n/a	MSG4055
M94544-1	G100470.D	1	10/01/10	EL	n/a	n/a	MSG4055

The QC reported here applies to the following samples: **Method:** EPA 624

M94572-1, M94572-2, M94572-3

CAS No.	Compound	M94544-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		100	85.7	86	85.9	86	0	10-150/47
71-43-2	Benzene	ND		100	120	120	120	120	0	37-151/20
56-23-5	Carbon tetrachloride	ND		100	115	115	115	115	0	70-140/20
95-50-1	1,2-Dichlorobenzene	ND		100	94.4	94	96.0	96	2	18-190/21
541-73-1	1,3-Dichlorobenzene	ND		100	96.8	97	99.0	99	2	59-156/20
106-46-7	1,4-Dichlorobenzene	ND		100	101	101	103	103	2	18-190/22
75-34-3	1,1-Dichloroethane	0.61		100	149	148	145	144	3	59-155/20
107-06-2	1,2-Dichloroethane	ND		100	114	114	113	113	1	49-155/20
75-35-4	1,1-Dichloroethene	ND		100	145	145	145	145	0	1-234/26
156-59-2	cis-1,2-Dichloroethene	ND		100	145	145* [a]	145	145* [a]	0	50-141/25
123-91-1	1,4-Dioxane	ND		500	498	100	499	100	0	50-150/30 [b]
100-41-4	Ethylbenzene	ND		100	98.7	99	101	101	2	37-162/20
1634-04-4	Methyl Tert Butyl Ether	ND		100	143	143	140	140	2	20-150/46
75-09-2	Methylene chloride	ND		100	142	142	138	138	3	1-221/20
994-05-8	tert-Amyl Methyl Ether	ND		100	116	116	118	118	2	50-150/30 [b]
75-65-0	Tertiary Butyl Alcohol	ND		1000	1470	147* [a]	1460	146* [a]	1	55-144/34
127-18-4	Tetrachloroethene	0.65		100	93.9	93	97.5	97	4	64-148/20
108-88-3	Toluene	ND		100	120	120	120	120	0	47-150/20
71-55-6	1,1,1-Trichloroethane	ND		100	148	148	144	144	3	52-162/20
79-00-5	1,1,2-Trichloroethane	ND		100	114	114	113	113	1	52-150/20
79-01-6	Trichloroethene	ND		100	109	109	114	114	4	71-157/20
75-01-4	Vinyl chloride	ND		100	185	185	171	171	8	1-251/20
	m,p-Xylene	ND		200	200	100	204	102	2	38-150/36
95-47-6	o-Xylene	ND		100	97.4	97	99.6	100	2	47-150/36
1330-20-7	Xylenes (total)	ND		300	298	99	304	101	2	40-150/36

CAS No.	Surrogate Recoveries	MS	MSD	M94544-1	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	122%	118%	110%	80-140%
2037-26-5	Toluene-D8 (SUR)	106%	105%	101%	80-120%
460-00-4	4-Bromofluorobenzene (SUR)	105%	107%	102%	70-120%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
(b) Advisory control limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
M94572-3MS	G100515.D	10	10/05/10	EL	n/a	n/a	MSG4056
M94572-3MSD	G100516.D	10	10/05/10	EL	n/a	n/a	MSG4056
M94572-3	G100514.D	10	10/05/10	EL	n/a	n/a	MSG4056

The QC reported here applies to the following samples: **Method:** EPA 624

M94572-3

CAS No.	Compound	M94572-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-55-6	1,1,1-Trichloroethane	1460		200	1810	175* [a]	1870	205* [a]	3	52-162/20
79-01-6	Trichloroethene	653		200	909	128	929	138	2	71-157/20

CAS No.	Surrogate Recoveries	MS	MSD	M94572-3	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	128%	125%	125%	80-140%
2037-26-5	Toluene-D8 (SUR)	106%	106%	106%	80-120%
460-00-4	4-Bromofluorobenzene (SUR)	105%	106%	101%	70-120%

(a) Outside control limits due to high level in sample relative to spike amount.

Volatile Internal Standard Area Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Check Std:	MSG4055-ICC4055	**Injection Date:**	09/30/10
Lab File ID:	G100459.D	**Injection Time:**	22:41
Instrument ID:	GCMSG	**Method:**	EPA 624

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	22328	8.62	140103	10.01	78474	13.29
Upper Limit [a]	44656	9.12	280206	10.51	156948	13.79
Lower Limit [b]	11164	8.12	70052	9.51	39237	12.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
MSG4055-BS	23833	8.61	159592	10.01	93010	13.29
MSG4055-MB	21047	8.62	145009	10.01	87849	13.29
ZZZZZZ	19967	8.61	144266	10.01	89071	13.29
M94544-1	18755	8.61	136836	10.01	85403	13.29
ZZZZZZ	18603	8.61	135867	10.01	87494	13.29
ZZZZZZ	18169	8.62	132269	10.01	86766	13.29
ZZZZZZ	17655	8.62	128515	10.01	82972	13.29
ZZZZZZ	17310	8.62	128744	10.01	85295	13.29
ZZZZZZ	17229	8.62	127944	10.01	85057	13.29
ZZZZZZ	17304	8.61	128553	10.01	84397	13.29
ZZZZZZ	16533	8.62	123914	10.01	84043	13.29
ZZZZZZ	16612	8.62	122594	10.01	82951	13.29
ZZZZZZ	16795	8.61	124554	10.01	85544	13.29
M94572-1	16614	8.61	122773	10.01	84021	13.29
M94572-2	15574	8.62	119533	10.01	81844	13.29
M94572-3	15827	8.62	120394	10.01	83802	13.29
M94544-1MS	15380	8.61	121101	10.01	87296	13.29
M94544-1MSD	15799	8.62	123215	10.01	87008	13.29
ZZZZZZ	15539	8.62	120518	10.01	85376	13.29
ZZZZZZ	14974	8.62	119247	10.01	85379	13.29
ZZZZZZ	14841	8.61	119263	10.01	84765	13.29

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Check Std: MSG4056-CC4055 **Injection Date:** 10/04/10
Lab File ID: G100495.D **Injection Time:** 16:26
Instrument ID: GCMSG **Method:** EPA 624

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	24015	8.61	148504	10.01	84204	13.29
Upper Limit [a]	48030	9.11	297008	10.51	168408	13.79
Lower Limit [b]	12008	8.11	74252	9.51	42102	12.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
MSG4056-BS	23918	8.61	148590	10.01	84694	13.29
MSG4056-MB	22259	8.62	141432	10.01	81445	13.29
ZZZZZZ	21947	8.61	139294	10.01	80561	13.29
ZZZZZZ	21482	8.61	141598	10.01	83686	13.29
ZZZZZZ	21052	8.61	138712	10.01	83588	13.28
ZZZZZZ	20196	8.61	134949	10.01	82571	13.29
ZZZZZZ	19649	8.61	134650	10.01	83548	13.29
ZZZZZZ	19544	8.61	132759	10.01	83409	13.29
ZZZZZZ	18861	8.61	130321	10.01	82569	13.29
ZZZZZZ	18189	8.62	129663	10.01	83915	13.29
ZZZZZZ	17965	8.61	125902	10.01	83667	13.29
ZZZZZZ	17115	8.61	126422	10.01	84812	13.29
ZZZZZZ	16587	8.61	124076	10.01	83245	13.29
ZZZZZZ	16281	8.61	125401	10.01	85213	13.29
ZZZZZZ	15749	8.61	122238	10.01	86441	13.29
ZZZZZZ	15622	8.61	122229	10.01	86144	13.29
ZZZZZZ	15025	8.61	120212	10.01	86484	13.29
M94572-3	14490	8.61	118578	10.01	86988	13.29
M94572-3MS	14177	8.61	120447	10.01	92172	13.29
M94572-3MSD	14229	8.61	121013	10.01	93336	13.28
ZZZZZZ	13338	8.61	117110	10.01	89959	13.29

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Method: EPA 624 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M94572-1	G100480.D	116.0	105.0	101.0
M94572-2	G100481.D	121.0	105.0	102.0
M94572-3	G100514.D	125.0	106.0	101.0
M94572-3	G100482.D	121.0	106.0	102.0
M94544-1MS	G100483.D	122.0	106.0	105.0
M94544-1MSD	G100484.D	118.0	105.0	107.0
M94572-3MS	G100515.D	128.0	106.0	105.0
M94572-3MSD	G100516.D	125.0	106.0	106.0
MSG4055-BS	G100467.D	102.0	100.0	102.0
MSG4055-MB	G100468.D	106.0	100.0	99.0
MSG4056-BS	G100496.D	97.0	97.0	97.0
MSG4056-MB	G100498.D	102.0	98.0	95.0

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4 (SUR)	80-140%
S2 = Toluene-D8 (SUR)	80-120%
S3 = 4-Bromofluorobenzene (SUR)	70-120%

New England ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22833-MB	F49775.D	1	10/06/10	PR	10/04/10	OP22833	MSF2376

The QC reported here applies to the following samples: **Method:** SW846 8270C

M94572-3

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
84-74-2	Di-n-butyl phthalate	0.38	5.0	0.34	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.61	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	35%	15-110%
4165-62-2	Phenol-d5	22%	15-110%
118-79-6	2,4,6-Tribromophenol	78%	15-110%
4165-60-0	Nitrobenzene-d5	79%	30-130%
321-60-8	2-Fluorobiphenyl	74%	30-130%
1718-51-0	Terphenyl-d14	87%	30-130%

Method Blank Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22834-MB	I68284.D	1	10/06/10	AA	10/04/10	OP22834	MSI2362

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

M94572-3A

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0		ug/l	
83-32-9	Acenaphthene	ND	0.10	0.012	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.028	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.011	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.013	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.0096	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.015	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.011	ug/l	
218-01-9	Chrysene	ND	0.10	0.012	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.016	ug/l	
86-73-7	Fluorene	ND	0.10	0.044	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.013	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.012	ug/l	
91-20-3	Naphthalene	ND	0.10	0.011	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.012	ug/l	
129-00-0	Pyrene	ND	0.10	0.020	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	42%	15-110%
4165-62-2	Phenol-d5	23%	15-110%
118-79-6	2,4,6-Tribromophenol	65%	15-110%
4165-60-0	Nitrobenzene-d5	72%	30-130%
321-60-8	2-Fluorobiphenyl	70%	30-130%
1718-51-0	Terphenyl-d14	79%	30-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22833-BS	F49776.D	1	10/06/10	PR	10/04/10	OP22833	MSF2376
OP22833-BSD	F49777.D	1	10/06/10	PR	10/04/10	OP22833	MSF2376

The QC reported here applies to the following samples: **Method:** SW846 8270C

M94572-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
85-68-7	Butyl benzyl phthalate	50	57.4	115	60.7	121	6	40-140/20
84-74-2	Di-n-butyl phthalate	50	53.1	106	56.8	114	7	40-140/20
117-84-0	Di-n-octyl phthalate	50	61.0	122	63.4	127	4	40-140/20
84-66-2	Diethyl phthalate	50	51.7	103	56.3	113	9	40-140/20
131-11-3	Dimethyl phthalate	50	48.1	96	52.8	106	9	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	50	58.3	117	62.4	125	7	40-140/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	53%	56%	15-110%
4165-62-2	Phenol-d5	33%	36%	15-110%
118-79-6	2,4,6-Tribromophenol	90%	96%	15-110%
4165-60-0	Nitrobenzene-d5	100%	107%	30-130%
321-60-8	2-Fluorobiphenyl	93%	99%	30-130%
1718-51-0	Terphenyl-d14	102%	108%	30-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22834-BS	I68285.D	1	10/06/10	AA	10/04/10	OP22834	MSI2362
OP22834-BSD	I68286.D	1	10/06/10	AA	10/04/10	OP22834	MSI2362

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

M94572-3A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-86-5	Pentachlorophenol	100	67.3	67	70.9	71	5	15-130/30
83-32-9	Acenaphthene	50	38.3	77	39.6	79	3	40-140/30
208-96-8	Acenaphthylene	50	35.9	72	37.6	75	5	40-140/30
120-12-7	Anthracene	50	39.8	80	41.7	83	5	40-140/30
56-55-3	Benzo(a)anthracene	50	42.4	85	44.7	89	5	40-140/30
50-32-8	Benzo(a)pyrene	50	34.8	70	35.6	71	2	40-140/30
205-99-2	Benzo(b)fluoranthene	50	36.7	73	37.3	75	2	40-140/30
191-24-2	Benzo(g,h,i)perylene	50	42.4	85	44.1	88	4	40-140/30
207-08-9	Benzo(k)fluoranthene	50	44.3	89	42.9	86	3	40-140/30
218-01-9	Chrysene	50	38.0	76	39.3	79	3	40-140/30
53-70-3	Dibenzo(a,h)anthracene	50	32.5	65	34.2	68	5	40-140/30
206-44-0	Fluoranthene	50	38.3	77	41.6	83	8	40-140/30
86-73-7	Fluorene	50	36.7	73	39.4	79	7	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	50	35.2	70	37.0	74	5	40-140/30
91-57-6	2-Methylnaphthalene	50	32.2	64	33.3	67	3	40-140/30
91-20-3	Naphthalene	50	37.0	74	37.5	75	1	40-140/30
85-01-8	Phenanthrene	50	35.6	71	36.7	73	3	40-140/30
129-00-0	Pyrene	50	41.8	84	41.2	82	1	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	48%	47%	15-110%
4165-62-2	Phenol-d5	28%	28%	15-110%
118-79-6	2,4,6-Tribromophenol	72%	74%	15-110%
4165-60-0	Nitrobenzene-d5	81%	80%	30-130%
321-60-8	2-Fluorobiphenyl	73%	75%	30-130%
1718-51-0	Terphenyl-d14	71%	70%	30-130%

Semivolatile Internal Standard Area Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Check Std: MSF2376-CC2374 **Injection Date:** 10/06/10
Lab File ID: F49769A.D **Injection Time:** 11:53
Instrument ID: GCMSF **Method:** SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	184140	5.09	667477	6.35	371847	8.73	594044	11.22	673978	16.16	686651	18.68
Upper Limit [a]	368280	5.59	1334954	6.85	743694	9.23	1188088	11.72	1347956	16.66	1373302	19.18
Lower Limit [b]	92070	4.59	333739	5.85	185924	8.23	297022	10.72	336989	15.66	343326	18.18
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
ZZZZZZ	141097	5.10	528030	6.35	286475	8.73	448942	11.22	489690	16.15	516036	18.68
ZZZZZZ	150302	5.10	567209	6.35	310749	8.73	491994	11.21	538484	16.15	513499	18.67
ZZZZZZ	155318	5.10	551812	6.35	310860	8.73	489001	11.22	583011	16.18	603947	18.70
ZZZZZZ	147788	5.09	569048	6.34	322989	8.73	526121	11.21	550851	16.15	576741	18.67
OP22833-MB	135667	5.10	514244	6.35	294858	8.73	465419	11.22	505886	16.15	548198	18.67
OP22833-BS	138154	5.09	524397	6.35	296360	8.73	488048	11.22	512203	16.15	536538	18.67
OP22833-BSD	144518	5.10	548915	6.35	313965	8.73	507184	11.22	531962	16.15	582236	18.67
M94572-3	141926	5.09	555885	6.34	318020	8.73	504552	11.22	561736	16.15	608196	18.67
ZZZZZZ	114483	5.09	431636	6.34	238496	8.72	374859	11.22	405039	16.15	444925	18.68

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Check Std: MSF2375-CC2374 **Injection Date:** 10/06/10
Lab File ID: F49769A.D **Injection Time:** 11:53
Instrument ID: GCMSF **Method:** SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	184140	5.09	667477	6.35	371847	8.73	594044	11.22	673978	16.16	686651	18.68
Upper Limit [a]	368280	5.59	1334954	6.85	743694	9.23	1188088	11.72	1347956	16.66	1373302	19.18
Lower Limit [b]	92070	4.59	333739	5.85	185924	8.23	297022	10.72	336989	15.66	343326	18.18
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
ZZZZZZ	141097	5.10	528030	6.35	286475	8.73	448942	11.22	489690	16.15	516036	18.68
ZZZZZZ	150302	5.10	567209	6.35	310749	8.73	491994	11.21	538484	16.15	513499	18.67
ZZZZZZ	155318	5.10	551812	6.35	310860	8.73	489001	11.22	583011	16.18	603947	18.70
ZZZZZZ	147788	5.09	569048	6.34	322989	8.73	526121	11.21	550851	16.15	576741	18.67
OP22833-MB	135667	5.10	514244	6.35	294858	8.73	465419	11.22	505886	16.15	548198	18.67
OP22833-BS	138154	5.09	524397	6.35	296360	8.73	488048	11.22	512203	16.15	536538	18.67
OP22833-BSD	144518	5.10	548915	6.35	313965	8.73	507184	11.22	531962	16.15	582236	18.67
M94572-3	141926	5.09	555885	6.34	318020	8.73	504552	11.22	561736	16.15	608196	18.67
ZZZZZZ	114483	5.09	431636	6.34	238496	8.72	374859	11.22	405039	16.15	444925	18.68

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Check Std: MSI2362-CC2346 **Injection Date:** 10/06/10
Lab File ID: I68283.D **Injection Time:** 14:14
Instrument ID: GCMSI **Method:** SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	40540	5.49	162348	6.80	95931	9.27	168724	11.79	172984	16.75	125315	19.29
Upper Limit [a]	81080	5.99	324696	7.30	191862	9.77	337448	12.29	345968	17.25	250630	19.79
Lower Limit [b]	20270	4.99	81174	6.30	47966	8.77	84362	11.29	86492	16.25	62658	18.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP22834-MB	36634	5.49	150425	6.80	83008	9.27	139807	11.79	126557	16.75	103712	19.29
OP22834-BS	41970	5.49	162981	6.80	90331	9.27	139336	11.79	134760	16.75	104967	19.29
OP22834-BSD	40387	5.49	155102	6.80	87736	9.27	145476	11.79	156429	16.75	134240	19.29
M94572-3A	35660	5.49	145575	6.80	80060	9.26	135918	11.79	133939	16.75	126337	19.29

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M94572-3	F49778.D	87.0	81.0	88.0
OP22833-BS	F49776.D	100.0	93.0	102.0
OP22833-BSD	F49777.D	107.0	99.0	108.0
OP22833-MB	F49775.D	79.0	74.0	87.0

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
M94572-3A	I68287.D	37.0	20.0	67.0	64.0	62.0	63.0
OP22834-BS	I68285.D	48.0	28.0	72.0	81.0	73.0	71.0
OP22834-BSD	I68286.D	47.0	28.0	74.0	80.0	75.0	70.0
OP22834-MB	I68284.D	42.0	23.0	65.0	72.0	70.0	79.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

New England ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22823-MB	BB32953.D	1	10/03/10	SL	10/02/10	OP22823	GBB2159

The QC reported here applies to the following samples: **Method:** EPA 504

M94572-1

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.015	0.014	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	Bromofluorobenzene (S)	108%	59-170%
460-00-4	Bromofluorobenzene (S)	110%	59-170%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22823-BS	BB32954.D	1	10/03/10	SL	10/02/10	OP22823	GBB2159
OP22823-BSD	BB32955.D	1	10/03/10	SL	10/02/10	OP22823	GBB2159

The QC reported here applies to the following samples: **Method:** EPA 504

M94572-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
106-93-4	1,2-Dibromoethane	0.071	0.11	155* [a]	0.13	183* [a]	17	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	Bromofluorobenzene (S)	121%	132%	59-170%
460-00-4	Bromofluorobenzene (S)	127%	140%	59-170%

(a) Samples are non-detect for analyte.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22823-MS	BB32956.D	1	10/03/10	SL	10/02/10	OP22823	GBB2159
OP22823-MSD	BB32957.D	1	10/03/10	SL	10/02/10	OP22823	GBB2159
M94535-13	BB32958.D	1	10/03/10	SL	10/02/10	OP22823	GBB2159

The QC reported here applies to the following samples: **Method:** EPA 504

M94572-1

CAS No.	Compound	M94535-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
106-93-4	1,2-Dibromoethane	ND		0.071	0.13	183* [a]	0.15	211* [a]	14	65-135/30

CAS No.	Surrogate Recoveries	MS	MSD	M94535-13	Limits
460-00-4	Bromofluorobenzene (S)	135%	157%	133%	59-170%
460-00-4	Bromofluorobenzene (S)	144%	161%	132%	59-170%

(a) Samples are non-detect for analyte.

Volatile Surrogate Recovery Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Method: EPA 504 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
M94572-1	BB32960.D	220.0* [c]	201.0* [c]
OP22823-BS	BB32954.D	121.0	127.0
OP22823-BSD	BB32955.D	132.0	140.0
OP22823-MB	BB32953.D	108.0	110.0
OP22823-MS	BB32956.D	135.0	144.0
OP22823-MSD	BB32957.D	157.0	161.0

Surrogate Compounds	Recovery Limits
S1 = Bromofluorobenzene (S)	59-170%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to possible matrix interference.

New England ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22841-MB	YZ60832A.D	1	10/04/10	CZ	10/04/10	OP22841	GYZ2592

The QC reported here applies to the following samples: **Method:** EPA 608

M94572-1, M94572-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.029	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.060	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.076	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.036	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.058	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.067	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.023	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	95%	31-154%
877-09-8	Tetrachloro-m-xylene	95%	31-154%
2051-24-3	Decachlorobiphenyl	106%	10-148%
2051-24-3	Decachlorobiphenyl	108%	10-148%

Blank Spike Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22841-BS	YZ60833A.D	1	10/04/10	CZ	10/04/10	OP22841	GYZ2592

The QC reported here applies to the following samples: **Method:** EPA 608

M94572-1, M94572-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
12674-11-2	Aroclor 1016	2	1.8	90	50-114
11104-28-2	Aroclor 1221		ND		15-178
11141-16-5	Aroclor 1232		ND		10-215
53469-21-9	Aroclor 1242		ND		39-150
12672-29-6	Aroclor 1248		ND		38-158
11097-69-1	Aroclor 1254		ND		29-131
11096-82-5	Aroclor 1260	2	1.9	95	8-127

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	93%	31-154%
877-09-8	Tetrachloro-m-xylene	86%	31-154%
2051-24-3	Decachlorobiphenyl	100%	10-148%
2051-24-3	Decachlorobiphenyl	103%	10-148%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22841-MS	YZ60836A.D	1	10/04/10	CZ	10/04/10	OP22841	GYZ2592
OP22841-MSD	YZ60837A.D	1	10/04/10	CZ	10/04/10	OP22841	GYZ2592
M94706-2	YZ60838A.D	1	10/04/10	CZ	10/04/10	OP22841	GYZ2592

The QC reported here applies to the following samples: **Method:** EPA 608

M94572-1, M94572-3

CAS No.	Compound	M94706-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		2	1.9	95	1.8	90	5	50-114/30
11104-28-2	Aroclor 1221	ND			ND		ND		nc	15-178/30
11141-16-5	Aroclor 1232	ND			ND		ND		nc	10-215/30
53469-21-9	Aroclor 1242	ND			ND		ND		nc	39-150/30
12672-29-6	Aroclor 1248	ND			ND		ND		nc	38-158/30
11097-69-1	Aroclor 1254	ND			ND		ND		nc	29-131/30
11096-82-5	Aroclor 1260	ND		2	2.0	100	1.9	95	5	8-127/30

CAS No.	Surrogate Recoveries	MS	MSD	M94706-2	Limits
877-09-8	Tetrachloro-m-xylene	92%	88%	92%	31-154%
877-09-8	Tetrachloro-m-xylene	90%	85%	96%	31-154%
2051-24-3	Decachlorobiphenyl	101%	96%	106%	10-148%
2051-24-3	Decachlorobiphenyl	103%	98%	110%	10-148%

Semivolatile Surrogate Recovery Summary

Job Number: M94572
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Method: EPA 608 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
M94572-1	YZ60909.D	99.0	102.0	102.0	101.0
M94572-3	YZ60910.D	100.0	99.0	97.0	98.0
OP22841-BS	YZ60833A.D	93.0	86.0	100.0	103.0
OP22841-MB	YZ60832A.D	95.0	95.0	106.0	108.0
OP22841-MS	YZ60836A.D	92.0	90.0	101.0	103.0
OP22841-MSD	YZ60837A.D	88.0	85.0	96.0	98.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	31-154%
S2 = Decachlorobiphenyl	10-148%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

New England ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15985
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/29/10

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.022	.047	0.031	<0.20

Associated samples MP15985: M94572-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15985
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/29/10 09/29/10

Metal	M94514-1 Original	MS	Spikelot HGRWS1	% Rec	QC Limits	M94514-1 Original	DUP	RPD	QC Limits
Mercury	0.049	2.8	3	91.7	70-130	0.049	0.034	36.1 (a)	0-20

Associated samples MP15985: M94572-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15985
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 09/29/10

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits
Mercury	2.9	3	96.7	85-115

Associated samples MP15985: M94572-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15995
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 10/01/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	17	17		
Antimony	6.0	1.2	1.2		
Arsenic	4.0	1.1	1.9		
Barium	50	.36	3.7		
Beryllium	4.0	.18	.18		
Boron	100	.34	1.5		
Cadmium	4.0	.08	.12		
Calcium	5000	18	39		
Chromium	10	.48	.53	0.0	<10
Cobalt	50	.19	.28		
Copper	25	.92	.92		
Gold	50	1.3	1.7		
Iron	100	5.2	5.2	3.8	<100
Lead	5.0	1	1.5		
Magnesium	5000	72	72		
Manganese	15	.14	.9		
Molybdenum	100	.15	.64		
Nickel	40	.25	.3		
Palladium	50	2.3	2.5		
Platinum	50	8.4	8.4		
Potassium	5000	44	44		
Selenium	10	1.1	1.7		
Silicon	100	6.4	7.2		
Silver	5.0	1	1		
Sodium	5000	29	31		
Strontium	10	.4	.4		
Thallium	5.0	.65	.74		
Tin	100	.45	.45		
Titanium	50	.84	.84		
Tungsten	100	5.8	12		
Vanadium	10	.87	1.1		
Zinc	20	.27	2		

Associated samples MP15995: M94572-1, M94572-3

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15995
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15995
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 10/01/10 10/01/10

Metal	M94593-1 Original	MS	Spikelot MPICP	% Rec	QC Limits	M94593-1 Original	DUP	RPD	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium	3.3	485	500	96.3	70-130	3.3	3.6	8.7	0-20
Cobalt									
Copper	anr								
Gold	anr								
Iron	58.0	2040	2000	99.1	70-130	58.0	63.5	9.1	0-20
Lead	anr								
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Palladium									
Platinum									
Potassium									
Selenium									
Silicon									
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin	anr								
Titanium									
Tungsten									
Vanadium									
Zinc									

Associated samples MP15995: M94572-1, M94572-3

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15995
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15995
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 10/01/10

Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium	498	500	99.6	85-115
Cobalt				
Copper	anr			
Gold	anr			
Iron	1990	2000	99.5	85-115
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium				
Selenium				
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin	anr			
Titanium				
Tungsten				
Vanadium				
Zinc				

Associated samples MP15995: M94572-1, M94572-3

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15995
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15995
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 10/01/10

Metal	M94593-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium	3.30	0.00	100.0(a)	0-10
Cobalt				
Copper	anr			
Gold	anr			
Iron	58.0	74.4	28.3 (a)	0-10
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium				
Selenium				
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin	anr			
Titanium				
Tungsten				
Vanadium				
Zinc				

Associated samples MP15995: M94572-1, M94572-3

SERIAL DILUTION RESULTS SUMMARY

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15995 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

New England ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GN32993	1.0	0.0	mg/l	10	9.7	97.0	80-120%
Chromium, Hexavalent	GN32939	0.010	0.0	mg/l	.1	0.10	100.0	85-115%
Chromium, Hexavalent	GN32939			mg/l	.1	0.10	100.0	85-115%
HEM Petroleum Hydrocarbons	GP12095/GN32996	4.0	0.0	mg/l	20.0	15.1	75.5	66-114%
Phenols	GP12085/GN32966	0.050	<0.050	mg/l	0.20	0.20	100.0	80-120%
Solids, Total Suspended	GN32951	4.0	0.0	mg/l				
Total Residual Chlorine	GN32940	0.050	0.0	mg/l	1	1.0	100.0	80-120%

Associated Samples:
Batch GN32939: M94572-1
Batch GN32940: M94572-1
Batch GN32951: M94572-1
Batch GN32993: M94572-1
Batch GP12085: M94572-1, M94572-3
Batch GP12095: M94572-1, M94572-3
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GN32993	M94572-1	mg/l	905	905	0.0	0-20%
Chromium, Hexavalent	GN32939	M94574-1	mg/l	0.079	0.082	3.7	0-20%
HEM Petroleum Hydrocarbons	GP12095/GN32996	M94612-1	mg/l	0.0	0.0	0.0	0-24%
Phenols	GP12085/GN32966	M94572-1	mg/l	<0.050	<0.050	0.0	0-20%
Solids, Total Suspended	GN32951	M94512-1	mg/l	3.0	3.0	0.0	0-20%
Total Residual Chlorine	GN32940	M94572-1	mg/l	0.0	0.0	0.0	0-20%

Associated Samples:
Batch GN32939: M94572-1
Batch GN32940: M94572-1
Batch GN32951: M94572-1
Batch GN32993: M94572-1
Batch GP12085: M94572-1, M94572-3
Batch GP12095: M94572-1, M94572-3
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M94572
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GN32993	M94572-1	mg/l	905	200	1100	97.5	75-125%
Chromium, Hexavalent	GN32939	M94574-1	mg/l	0.079	.1	0.18	101.0	85-115%
HEM Petroleum Hydrocarbons	GP12095/GN32996	M94612-1	mg/l	0.0	20.4	15.0	73.5	66-114%
Phenols	GP12085/GN32966	M94572-1	mg/l	<0.050	0.20	0.19	95.0	75-125%
Total Residual Chlorine	GN32940	M94572-1	mg/l	0.0	1	1.0	100.0	75-125%

Associated Samples:
Batch GN32939: M94572-1
Batch GN32940: M94572-1
Batch GN32993: M94572-1
Batch GP12085: M94572-1, M94572-3
Batch GP12095: M94572-1, M94572-3
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

ACCUTEST

CHAIN OF CUSTODY

495 Technology Ctr, West, Building One
Marlboro, MA 01752
508 481-6200 FAX: 508 481-7753

Accutest Job #: M 94572
Accutest Quote #:

Client Information	Facility Information
Accutest Name	Project Name
495 Technology Ctr,West, Bldg One Address	Location
Marlboro MA 1752 City State Zip	Project No. M94572
Send Report to: Phone #: (508) 481-6200	FAX #: (508) 481-7753

Analytical Information: AGMS, ASMS, COMS, CUMS, NIMS, PBMS, SBMS, SEMS, ZNMS | CUMS, NIMS, PBMS, ZNMS,

Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	AGMS, ASMS, COMS, CUMS, NIMS, PBMS, SBMS, SEMS, ZNMS	CUMS, NIMS, PBMS, ZNMS,				
-1	9/28			GW							X					ME31
-3	↓			GW								X				

Turnaround Information
- [ ] 21 Day Standard
- [ ] 14 Day
- [x] 7 Days EMERGENCY
- [ ] Other ______ (Days)

Approved By:

21 Day Turnaround Hardcopy, Emergency or RUSH is FAX Data unless previously approved.

Data Deliverable Information
- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify) MLP
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] State Forms

Comments / Remarks
ICP MS 6020
NJ
TKK # 8729 8580 2076

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	9/30/10	1 FedEx	2 FedEx	10/1/10 0920	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal #	Preserved where applicable ☒	On Ice ☒ 3.4°C

TNS 10/1/10
TN 10/1/10

1A

TNS

M94572: Chain of Custody
Page 1 of 1
Accutest New Jersey

11.1

Internal Sample Tracking Chronicle

Accutest Labs of New England, Inc.

Job No: M94572

HWIMAB: CHMHLMAB:Brighton MA
Project No: HWIMAB10791

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M94572-1 Collected: 28-SEP-10 09:31 By: INF-092810-FD				Received: 28-SEP-10	By: RL	
M94572-1	SW846 6020A	04-OCT-10 23:34	RP	02-OCT-10	RP	AGMS, ASMS, CDMS, CUMS, NIMS, PBMS, SBMS, ZNMS
M94572-1	SW846 6020A	04-OCT-10 23:38	RP	02-OCT-10	RP	SEMS
M94572-3 Collected: 28-SEP-10 08:05 By: INF-0992810-MC				Received: 28-SEP-10	By: RL	
M94572-3	SW846 6020A	04-OCT-10 23:42	RP	02-OCT-10	RP	CUMS, NIMS, PBMS, ZNMS

New England ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M94572
Account: ALNE - Accutest Labs of New England, Inc.
Project: HWIMAB: CHMHLMAB:Brighton MA

QC Batch ID: MP54994
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 10/02/10

Metal	RL	IDL	MDL	MB raw	final
Antimony	1.0	.1	.16	0.84	<1.0
Arsenic	2.0	.52	.36	-0.49	<2.0
Barium	2.0	.054	.13		
Beryllium	1.0	.022	.11		
Boron	10	.77	1.5		
Cadmium	1.0	.052	.13	-0.10	<1.0
Calcium	500	14	16		
Chromium	8.0	.1	.3		
Cobalt	1.0	.006	.072		
Copper	8.0	.1	.46	-0.014	<8.0
Iron	100	3.1	7.1		
Lead	1.0	.02	.05	0.094	<1.0
Magnesium	500	.61	5.7		
Manganese	1.0	.03	.046		
Molybdenum	2.0	.79	.19		
Nickel	8.0	.13	.23	0.39	<8.0
Selenium	5.0	1	.28	0.68	<5.0
Silver	4.0	.022	.099	-0.020	<4.0
Sodium	500	17	3		
Strontium	2.0	.024	.03		
Thallium	1.0	.03	.067		
Tin	10	.41	.11		
Titanium	2.0	.14	.21		
Uranium	2.0				
Vanadium	8.0	.86	1.5		
Zinc	8.0	1.6	1.7	1.4	<8.0

Associated samples MP54994: M94572-1, M94572-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94572
Account: ALNE - Accutest Labs of New England, Inc.
Project: HWIMAB: CHMHLMAB:Brighton MA

QC Batch ID: MP54994
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 10/02/10

Metal	M94520-2 Original	MS	Spikelot MPIRW1	% Rec	QC Limits
Aluminum	anr				
Antimony	0.82	558	500	111.4	75-125
Arsenic	0.0	2010	2000	100.5	75-125
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	0.0	49.6	50	99.2	75-125
Calcium	anr				
Chromium	anr				
Cobalt	anr				
Copper	1.6	242	250	96.2	75-125
Iron	anr				
Lead	1.6	492	500	98.1	75-125
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	1.2	478	500	95.4	75-125
Potassium	anr				
Selenium	0.0	2050	2000	102.5	75-125
Silver	0.0	50.2	50	100.4	75-125
Sodium	anr				
Strontium					
Thallium	anr				
Tin					
Titanium					
Uranium					
Vanadium	anr				
Zinc	14.0	515	500	100.2	75-125

Associated samples MP54994: M94572-1, M94572-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94572
Account: ALNE - Accutest Labs of New England, Inc.
Project: HWIMAB: CHMHLMAB:Brighton MA

QC Batch ID: MP54994
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 10/02/10

Metal	M94520-2 Original	MSD	Spikelot MPIRW1	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	0.82	542	500	108.2	2.9	20
Arsenic	0.0	1950	2000	97.5	3.0	20
Barium	anr					
Beryllium	anr					
Boron						
Cadmium	0.0	47.5	50	95.0	4.3	20
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	1.6	229	250	91.0	5.5	20
Iron	anr					
Lead	1.6	480	500	95.7	2.5	20
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	1.2	463	500	92.4	3.2	20
Potassium	anr					
Selenium	0.0	1990	2000	99.5	3.0	20
Silver	0.0	50.0	50	100.0	0.4	20
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Uranium						
Vanadium	anr					
Zinc	14.0	504	500	98.0	2.2	20

Associated samples MP54994: M94572-1, M94572-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M94572
Account: ALNE - Accutest Labs of New England, Inc.
Project: HWIMAB: CHMHLMAB:Brighton MA

QC Batch ID: MP54994
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 10/02/10

Metal	LCS Result	Spikelot MPLCW3	% Rec	QC Limits
Aluminum	anr			
Antimony	537	500	107.4	80-120
Arsenic	440	500	88.0	80-120
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	480	500	96.0	80-120
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	481	500	96.2	80-120
Iron	anr			
Lead	553	500	110.6	80-120
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	487	500	97.4	80-120
Potassium	anr			
Selenium	470	500	94.0	80-120
Silver	208	200	104.0	80-120
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Uranium				
Vanadium	anr			
Zinc	424	500	84.8	80-120

Associated samples MP54994: M94572-1, M94572-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M94572
Account: ALNE - Accutest Labs of New England, Inc.
Project: HWIMAB: CHMHLMAB:Brighton MA

QC Batch ID: MP54994
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 10/02/10

Metal	M94520-2 Original	SDL 2:10	%DIF	QC Limits
Aluminum	anr			
Antimony	0.823	1.14	39.0 (a)	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	1.56	1.61	3.2	0-10
Iron	anr			
Lead	1.62	1.71	5.5	0-10
Magnesium	anr			
Molybdenum				
Nickel	1.25	3.19	155.7(a)	0-10
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Uranium				
Vanadium	anr			
Zinc	14.0	19.2	37.6 (a)	0-10

Associated samples MP54994: M94572-1, M94572-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

New England ACCUTEST LABORATORIES

09/23/10

Technical Report for

Honeywell International Inc.

CHMHLMAB:Brighton MA

Accutest Job Number: M94292

Sampling Date: 09/16/10

Report to:

ltseng@ch2m.com
aklopper@ch2m.com
Kyle.Block@ch2m.com

ATTN: Distribution6

Total number of pages in report: **59**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Steve Grant 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (002) ND (R-188) CO MN (11546AA) NC (653) IL (002337) DoD/ISO/IEC 17025:2005 (L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6 7 8

Table of Contents

Accutest LabLink@17:17 23-Sep-2010

Sample Summary

Honeywell International Inc.

CHMHLMAB:Brighton MA

Job No: M94292

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
M94292-1	09/16/10	10:33	TB	09/16/10	AQ	Influent	INF-091610-MC
M94292-2	09/16/10	10:45	TB	09/16/10	AQ	Effluent	EFF-091610-MC
M94292-3	09/16/10	10:00	TB	09/16/10	AQ	Influent	INF-091610-FD
M94292-4	09/16/10	10:05	TB	09/16/10	AQ	Ground Water	MID-091610-FD
M94292-5	09/16/10	10:10	TB	09/16/10	AQ	Effluent	EFF-091610-FD

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Honeywell International Inc.	**Job No**	M94292
Site:	CHMHLMAB:Brighton MA	**Report Date**	9/23/2010 5:15:33 PM

5 Sample(s) were collected on 09/16/2010 and were received at Accutest on 09/16/2010 properly preserved, at 0.8 Deg. C and intact. These Samples received an Accutest job number of M94292. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** MSN1728

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- BS/BSD Recovery(s) for Dichlorodifluoromethane are outside control limits. Blank Spike meets program technical requirements.
- Continuing calibration check standard MSN1728-CC1688 for bromomethane exceed 20% Difference. This check standard met MCP criteria.
- Quadratic regression is employed for compound bromomethane from initial calibration standard MSN1688-ICC1688.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP22692

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94245-5MS, M94245-5MSD were used as the QC samples indicated.
- Only selected compounds requested.
- OP22692-MB, OP22692-BS has internal standard outside control limits. Internal standard spiked at 2x concentration.
- Initial calibration verification standard MSF2328-ICV2328 for Phenol-d5 exceed 30% Difference.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix AQ **Batch ID:** OP22693

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Only selected compounds requested.

Metals By Method EPA 200.7

Matrix	AQ	Batch ID:	MP15939

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94282-1DUP, M94282-1MS, M94282-1SDL were used as the QC samples for metals.
- Only Iron requested.

Wet Chemistry By Method EPA 335.4

Matrix	AQ	Batch ID:	GP12047

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94292-5DUP, M94292-5MS were used as the QC samples for Cyanide.

Wet Chemistry By Method SM20 4500CNI

Matrix	AQ	Batch ID:	GP12048

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M94292-5DUP, M94292-5MS were used as the QC samples for Weak Acid Dissociable Cn.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M94292).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	INF-091610-MC		
Lab Sample ID:	M94292-1	**Date Sampled:**	09/16/10
Matrix:	AQ - Influent	**Date Received:**	09/16/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N45730.D	1	09/23/10	JP	n/a	n/a	MSN1728
Run #2	N45734.D	10	09/23/10	JP	n/a	n/a	MSN1728

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Halogenated List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	0.92	1.0	0.72	ug/l	J
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	30.5	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	0.96	1.0	0.74	ug/l	J
75-35-4	1,1-Dichloroethene	156	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	30.0	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	4.2	1.0	0.39	ug/l	
71-55-6	1,1,1-Trichloroethane	1050 [a]	10	3.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	485 [a]	10	4.9	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF-091610-MC		
Lab Sample ID:	M94292-1	**Date Sampled:**	09/16/10
Matrix:	AQ - Influent	**Date Received:**	09/16/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%	109%	70-130%
2037-26-5	Toluene-D8	93%	95%	70-130%
460-00-4	4-Bromofluorobenzene	99%	100%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFF-091610-MC		
Lab Sample ID:	M94292-2	**Date Sampled:**	09/16/10
Matrix:	AQ - Effluent	**Date Received:**	09/16/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N45727.D	1	09/23/10	JP	n/a	n/a	MSN1728
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Halogenated List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
71-55-6	1,1,1-Trichloroethane	1.7	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	2.2	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFF-091610-MC		
Lab Sample ID:	M94292-2	**Date Sampled:**	09/16/10
Matrix:	AQ - Effluent	**Date Received:**	09/16/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFF-091610-MC		
Lab Sample ID:	M94292-2	**Date Sampled:**	09/16/10
Matrix:	AQ - Effluent	**Date Received:**	09/16/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F49443.D	1	09/20/10	AA	09/17/10	OP22692	MSF2358
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
84-74-2	Di-n-butyl phthalate	0.81	5.0	0.34	ug/l	J
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.61	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	44%		30-130%
321-60-8	2-Fluorobiphenyl	41%		30-130%
1718-51-0	Terphenyl-d14	33%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFF-091610-MC		
Lab Sample ID:	M94292-2	**Date Sampled:**	09/16/10
Matrix:	AQ - Effluent	**Date Received:**	09/16/10
		Percent Solids:	n/a
Project:	CHMHLMAB:Brighton MA		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	2540	100	5.2	ug/l	1	09/17/10	09/21/10	DA	EPA 200.7 [1]	EPA 200.7 [2]

(1) Instrument QC Batch: MA12235
(2) Prep QC Batch: MP15939

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	INF-091610-FD		
Lab Sample ID:	M94292-3	**Date Sampled:**	09/16/10
Matrix:	AQ - Influent	**Date Received:**	09/16/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N45731.D	1	09/23/10	JP	n/a	n/a	MSN1728
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Halogenated List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	21.2	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	2.9	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	68.8	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
71-55-6	1,1,1-Trichloroethane	3.3	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	12.6	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF-091610-FD		
Lab Sample ID:	M94292-3	**Date Sampled:**	09/16/10
Matrix:	AQ - Influent	**Date Received:**	09/16/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF-091610-FD		
Lab Sample ID:	M94292-3	**Date Sampled:**	09/16/10
Matrix:	AQ - Influent	**Date Received:**	09/16/10
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68063.D	1	09/22/10	AA	09/17/10	OP22693	MSI2346
Run #2							

	Initial Volume	Final Volume
Run #1	870 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	1.1	1.1	ug/l	
83-32-9	Acenaphthene	ND	0.11	0.013	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.032	ug/l	
120-12-7	Anthracene	ND	0.11	0.030	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.057	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.015	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.057	0.011	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.017	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.013	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.018	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.019	ug/l	
86-73-7	Fluorene	ND	0.11	0.051	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.014	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.23	0.014	ug/l	
91-20-3	Naphthalene	ND	0.11	0.012	ug/l	
85-01-8	Phenanthrene	ND	0.057	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.023	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		15-110%
4165-62-2	Phenol-d5	22%		15-110%
118-79-6	2,4,6-Tribromophenol	81%		15-110%
4165-60-0	Nitrobenzene-d5	70%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	59%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INF-091610-FD		
Lab Sample ID:	M94292-3	**Date Sampled:**	09/16/10
Matrix:	AQ - Influent	**Date Received:**	09/16/10
		Percent Solids:	n/a
Project:	CHMHLMAB:Brighton MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.088	0.010	mg/l	1	09/22/10 18:13	MA	EPA 335.4
Weak Acid Dissociable Cn	0.025	0.010	mg/l	1	09/22/10 18:50	MA	SM20 4500CNI

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MID-091610-FD		
Lab Sample ID:	M94292-4	**Date Sampled:**	09/16/10
Matrix:	AQ - Ground Water	**Date Received:**	09/16/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N45729.D	1	09/23/10	JP	n/a	n/a	MSN1728
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Halogenated List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	1.1	2.0	0.81	ug/l	J
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MID-091610-FD		
Lab Sample ID:	M94292-4	**Date Sampled:**	09/16/10
Matrix:	AQ - Ground Water	**Date Received:**	09/16/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MID-091610-FD		
Lab Sample ID:	M94292-4	**Date Sampled:**	09/16/10
Matrix:	AQ - Ground Water	**Date Received:**	09/16/10
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68064.D	1	09/22/10	AA	09/17/10	OP22693	MSI2346
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	1.1	1.1	ug/l	
83-32-9	Acenaphthene	ND	0.11	0.013	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.031	ug/l	
120-12-7	Anthracene	ND	0.11	0.029	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.056	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.014	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.056	0.011	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.016	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.013	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.018	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.018	ug/l	
86-73-7	Fluorene	ND	0.11	0.049	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.014	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.013	ug/l	
91-20-3	Naphthalene	ND	0.11	0.012	ug/l	
85-01-8	Phenanthrene	ND	0.056	0.014	ug/l	
129-00-0	Pyrene	ND	0.11	0.023	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		15-110%
4165-62-2	Phenol-d5	21%		15-110%
118-79-6	2,4,6-Tribromophenol	77%		15-110%
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	64%		30-130%
1718-51-0	Terphenyl-d14	59%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MID-091610-FD		
Lab Sample ID:	M94292-4	**Date Sampled:**	09/16/10
Matrix:	AQ - Ground Water	**Date Received:**	09/16/10
		Percent Solids:	n/a
Project:	CHMHLMAB:Brighton MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	09/22/10 18:14	MA	EPA 335.4
Weak Acid Dissociable Cn	< 0.010	0.010	mg/l	1	09/22/10 18:51	MA	SM20 4500CNI

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EFF-091610-FD		
Lab Sample ID:	M94292-5	**Date Sampled:**	09/16/10
Matrix:	AQ - Effluent	**Date Received:**	09/16/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N45728.D	1	09/23/10	JP	n/a	n/a	MSN1728
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Halogenated List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFF-091610-FD		
Lab Sample ID:	M94292-5	**Date Sampled:**	09/16/10
Matrix:	AQ - Effluent	**Date Received:**	09/16/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

VOA Halogenated List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFF-091610-FD		
Lab Sample ID:	M94292-5	**Date Sampled:**	09/16/10
Matrix:	AQ - Effluent	**Date Received:**	09/16/10
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	CHMHLMAB:Brighton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I68065.D	1	09/22/10	AA	09/17/10	OP22693	MSI2346
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	1.1	1.1	ug/l	
83-32-9	Acenaphthene	ND	0.11	0.012	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.030	ug/l	
120-12-7	Anthracene	ND	0.11	0.028	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.054	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.014	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.054	0.010	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.016	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.012	ug/l	
218-01-9	Chrysene	ND	0.11	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.017	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.017	ug/l	
86-73-7	Fluorene	ND	0.11	0.048	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.013	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	0.013	ug/l	
91-20-3	Naphthalene	ND	0.11	0.012	ug/l	
85-01-8	Phenanthrene	ND	0.054	0.013	ug/l	
129-00-0	Pyrene	ND	0.11	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		15-110%
4165-62-2	Phenol-d5	19%		15-110%
118-79-6	2,4,6-Tribromophenol	77%		15-110%
4165-60-0	Nitrobenzene-d5	57%		30-130%
321-60-8	2-Fluorobiphenyl	56%		30-130%
1718-51-0	Terphenyl-d14	63%		30-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFF-091610-FD		
Lab Sample ID:	M94292-5	**Date Sampled:**	09/16/10
Matrix:	AQ - Effluent	**Date Received:**	09/16/10
		Percent Solids:	n/a
Project:	CHMHLMAB:Brighton MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	09/22/10 18:12	MA	EPA 335.4
Weak Acid Dissociable Cn	< 0.010	0.010	mg/l	1	09/22/10 18:49	MA	SM20 4500CNI

RL = Reporting Limit

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Parameter Certifications (MA)
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle

Parameter Certifications

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

The following parameters included in this report are certified by the state of MA.

Parameter	CAS#	Method	Mat	Certification Status
Iron	7439-89-6	**EPA 200.7**	AQ	Accutest is certified for this parameter.
Cyanide	57-12-5	**EPA 335.4**	AQ	Accutest is certified for this parameter.

Accutest New England
495 Technology Center West, Building One, Marlborough, MA 01752
(508) 481-6200

Chain Of Custody / Analysis Request

M94292

AESI Ref:	40437.27907
COC#	37558_091610
Lab Proj # (SDG):	
Lab ID	
Site ID	hwbright
Lab Job #	
Authorized User:	Honeywell
Text & Excel File Drive	Excel & Text File Order

Copyright AESI: Version 8.0 Unauthorized use strictly prohibited.

Privileged & Confidential	
Sampling Co.:	CH2MHILL
EDD To:	Sarah Mader/Critigen (Sarah.Mader@critigen.com)
Site Name:	HW - Brighton, MA
Location of Site:	Brighton, MA
Phase:	
Sampling Program	
Sampler:	Tim Bakey
PO #	
Analysis Turnaround Time (TAT):	7
Consultant	CH2M
Full Report TAT:	
Preliminary Data To	
Sample Receipt Acknowledgement To	
Hard Copy To	Kyle Block (CD) ; Amy Klopper/Critigen
Invoice To:	CH2M HILL

Client Contact: (name, co., address)
Kyle Block; Kyle.Block@ch2m.com
25 New Chardon Street, Suite 300
Boston, MA 02114

Sample Identification

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Composite/Grab	Field Filtered Sample ?	SW8021 by SW8260 - Chlorinated List	Total Phthalates by 8270	Total Iron by 200.7	Total PAHs Group I and II	Total Cyanide by 335.2	Weak Dis Cn by SM4500-CN-I	Sampling Method (code)	Lab Sample Numbers
Preservative													2	1	3	1	6	6		
											Units									
1	-1 INF-MC			INF-091610-MC	9/16/2010	10:33	GW	Water	REG	2	grab	N	X							
2	-2 EFF-MC			EFF-091610-MC	9/16/2010	10:45	GW	Water	REG	5	grab	N	X	X	X					
3																				
4	-3 INF-FD			INF-091610-FD	9/16/2010	10:00	GW	Water	REG	6	grab	N	X			X	X	X		
5	-4 MID-FD			MID-091610-FD	9/16/2010	10:05	GW	Water	REG	6	grab	N	X			X	X	X		
6	-5 EFF-FD			EFF-091610-FD	9/16/2010	10:10	GW	Water	REG	6	grab	N	X			X	X	X		
7																				
8				~~TB-091610~~ TB						1			X							
9																				
10																				
11																				19BB,5C,
12																				3A,3M6

Relinquished by	Company CH2M HILL	Received by	Company		Condition		Custody Seals Intact
Timothy Bakey	Date/Time 9/16/10 1230		Date/Time		Cooler Temp.		
Relinquished by	Company	Received by	Company		Condition		Custody Seals Intact
	Date/Time		Date/Time		Cooler Temp.		

Preservatives: (Other; Specify): 0 (none); 1 (4 Deg C); 2 (HCl pH<2); 3 (HNO3 pH<2); 4 (H2SO4 pH<2); 5 (NaOH pH>12); 6 (NaOH, Zn Acetate); 7 (H2SO4 (pH<2), 4 Deg C)); 8 (HCl pH<2); 9 (HCl 4 Deg C); 10 (HNO3 (pH<2), 4Deg C); 11 (4C NaOH (pH>12) & Ascorbic Acid); 12 (4C H2SO4 (pH<2) & Na2S2O3); 13 (Zn Acetate); sp (special instructions)

NOTES: Send copy of electronic COC to sarah.mader@critigen.com

VOCS by 8260. Report only: Xylenes, total BTEX, 1,2 dichloroethane, 1,1-Dichloroethane , 1,1-Dichloroethene, Cis-1,2-Dichloroethene, Tetrachloroethene, 1,1,1-Trichloroethane , Trichloroethene, Vinyl chloride

Total Phthalates = Butyl benyzl phthalate, di-n-butyl phthalate, and bis(2-ethylhexyl) phthalate

REC. @ 0.8 °C

4.2

4

M94292: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: M94292 **Client:** CHM2HILL **Immediate Client Services Action Required:** No

Date / Time Received: 9/16/2010 12:30:00 PM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: HW BRIGHTON **Airbill #'s:** N/A

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	
2. Trip Blank listed on COC:	☐		☐	
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume rec'd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

M94292: Chain of Custody
Page 2 of 2

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	Accutest Laboratories of New England	Project #:	M94292
Project Location:	CHMHLMAB:Brighton MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)
M94292-1,M94292-2,M94292-3,M94292-4,M94292-5

Test method: Refer to case narrative

Matrices: Groundwater/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

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

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

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

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

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑ Yes	☐ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No [1]

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

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

Signature: _____ **Position:** **Laboratory Director**

Printed Name: **Reza Tand** **Date:** **09/23/2010**

Internal Sample Tracking Chronicle

Honeywell International Inc.

CHMHLMAB:Brighton MA

Job No: M94292

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
M94292-1 Collected: 16-SEP-10 10:33 By: TB Received: 16-SEP-10 By: JB INF-091610-MC						
M94292-1	SW846 8260B	23-SEP-10 12:24	JP			V82608010L
M94292-1	SW846 8260B	23-SEP-10 14:16	JP			V82608010L
M94292-2 Collected: 16-SEP-10 10:45 By: TB Received: 16-SEP-10 By: JB EFF-091610-MC						
M94292-2	SW846 8270C	20-SEP-10 18:42	AA	17-SEP-10	BJ	AB8270SL
M94292-2	EPA 200.7	21-SEP-10 00:04	DA	17-SEP-10	EM	FE
M94292-2	SW846 8260B	23-SEP-10 10:56	JP			V82608010L
M94292-3 Collected: 16-SEP-10 10:00 By: TB Received: 16-SEP-10 By: JB INF-091610-FD						
M94292-3	SW846 8270C BY SIM	22-SEP-10 03:18	AA	17-SEP-10	BJ	AB8270SIMSL
M94292-3	EPA 335.4	22-SEP-10 18:13	MA	22-SEP-10	MA	CN
M94292-3	SM20 4500CNI	22-SEP-10 18:50	MA	22-SEP-10	MA	CNWAD
M94292-3	SW846 8260B	23-SEP-10 12:52	JP			V82608010L
M94292-4 Collected: 16-SEP-10 10:05 By: TB Received: 16-SEP-10 By: JB MID-091610-FD						
M94292-4	SW846 8270C BY SIM	22-SEP-10 03:50	AA	17-SEP-10	BJ	AB8270SIMSL
M94292-4	EPA 335.4	22-SEP-10 18:14	MA	22-SEP-10	MA	CN
M94292-4	SM20 4500CNI	22-SEP-10 18:51	MA	22-SEP-10	MA	CNWAD
M94292-4	SW846 8260B	23-SEP-10 11:53	JP			V82608010L
M94292-5 Collected: 16-SEP-10 10:10 By: TB Received: 16-SEP-10 By: JB EFF-091610-FD						
M94292-5	SW846 8270C BY SIM	22-SEP-10 04:21	AA	17-SEP-10	BJ	AB8270SIMSL
M94292-5	EPA 335.4	22-SEP-10 18:12	MA	22-SEP-10	MA	CN
M94292-5	SM20 4500CNI	22-SEP-10 18:49	MA	22-SEP-10	MA	CNWAD
M94292-5	SW846 8260B	23-SEP-10 11:24	JP			V82608010L

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1728-MB	N45726A.D	1	09/23/10	JP	n/a	n/a	MSN1728

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94292-1, M94292-2, M94292-3, M94292-4, M94292-5

CAS No.	Compound	Result	RL	MDL	Units	Q
75-27-4	Bromodichloromethane	ND	1.0	0.62	ug/l	
75-25-2	Bromoform	ND	1.0	0.73	ug/l	
74-83-9	Bromomethane	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.42	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.61	ug/l	
75-00-3	Chloroethane	ND	2.0	0.76	ug/l	
67-66-3	Chloroform	ND	1.0	0.72	ug/l	
74-87-3	Chloromethane	ND	2.0	0.81	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.86	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.74	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.77	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.81	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.61	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.74	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.70	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.66	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.74	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.83	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.23	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.75	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.89	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.39	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.72	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.49	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.86	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
2037-26-5	Toluene-D8	92%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1728-BS	N45723A.D	1	09/23/10	JP	n/a	n/a	MSN1728
MSN1728-BSD	N45724A.D	1	09/23/10	JP	n/a	n/a	MSN1728

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94292-1, M94292-2, M94292-3, M94292-4, M94292-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
75-27-4	Bromodichloromethane	50	49.7	99	49.2	98	1	70-130/25
75-25-2	Bromoform	50	45.1	90	44.2	88	2	70-130/25
74-83-9	Bromomethane	50	39.6	79	39.1	78	1	70-130/25
56-23-5	Carbon tetrachloride	50	51.0	102	48.4	97	5	70-130/25
108-90-7	Chlorobenzene	50	48.7	97	47.0	94	4	70-130/25
75-00-3	Chloroethane	50	53.9	108	52.1	104	3	70-130/25
67-66-3	Chloroform	50	54.7	109	53.4	107	2	70-130/25
74-87-3	Chloromethane	50	38.1	76	36.3	73	5	70-130/25
124-48-1	Dibromochloromethane	50	51.4	103	49.3	99	4	70-130/25
95-50-1	1,2-Dichlorobenzene	50	48.2	96	46.1	92	4	70-130/25
541-73-1	1,3-Dichlorobenzene	50	48.1	96	46.0	92	4	70-130/25
106-46-7	1,4-Dichlorobenzene	50	46.9	94	43.8	88	7	70-130/25
75-71-8	Dichlorodifluoromethane	50	32.0	64* [a]	31.4	63* [a]	2	70-130/25
75-34-3	1,1-Dichloroethane	50	58.2	116	55.6	111	5	70-130/25
107-06-2	1,2-Dichloroethane	50	46.2	92	44.8	90	3	70-130/25
75-35-4	1,1-Dichloroethene	50	55.4	111	52.5	105	5	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	53.7	107	52.0	104	3	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	54.4	109	52.1	104	4	70-130/25
78-87-5	1,2-Dichloropropane	50	55.1	110	53.6	107	3	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	51.5	103	50.6	101	2	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	54.3	109	53.2	106	2	70-130/25
75-09-2	Methylene chloride	50	54.9	110	54.3	109	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	57.3	115	53.8	108	6	70-130/25
127-18-4	Tetrachloroethene	50	45.5	91	42.6	85	7	70-130/25
71-55-6	1,1,1-Trichloroethane	50	54.9	110	52.6	105	4	70-130/25
79-00-5	1,1,2-Trichloroethane	50	52.3	105	51.3	103	2	70-130/25
79-01-6	Trichloroethene	50	50.7	101	48.8	98	4	70-130/25
75-69-4	Trichlorofluoromethane	50	42.7	85	40.1	80	6	70-130/25
75-01-4	Vinyl chloride	50	48.9	98	47.5	95	3	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	101%	70-130%
2037-26-5	Toluene-D8	93%	93%	70-130%
460-00-4	4-Bromofluorobenzene	91%	91%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN1728-BS	N45723A.D	1	09/23/10	JP	n/a	n/a	MSN1728
MSN1728-BSD	N45724A.D	1	09/23/10	JP	n/a	n/a	MSN1728

The QC reported here applies to the following samples: **Method:** SW846 8260B

M94292-1, M94292-2, M94292-3, M94292-4, M94292-5

(a) Outside control limits. Blank Spike meets program technical requirements.

Volatile Internal Standard Area Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Check Std:	MSN1727-CC1688	**Injection Date:**	09/23/10
Lab File ID:	N45722.D	**Injection Time:**	08:28
Instrument ID:	GCMSN	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	138267	8.61	258327	9.47	162642	12.72	108775	15.27	95297	6.19
Upper Limit [a]	276534	9.11	516654	9.97	325284	13.22	217550	15.77	190594	6.69
Lower Limit [b]	69134	8.11	129164	8.97	81321	12.22	54388	14.77	47649	5.69

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN1728-BS	141540	8.61	268287	9.47	168515	12.72	107157	15.28	106197	6.19
MSN1728-BSD	142128	8.61	268663	9.47	171428	12.72	110485	15.27	98455	6.19
MSN1728-MB	129313	8.61	249585	9.47	151749	12.72	85752	15.28	92975	6.19
M94292-2	122082	8.61	238036	9.47	146212	12.72	81803	15.28	85308	6.19
M94292-5	117378	8.61	226832	9.47	142330	12.72	80096	15.28	81518	6.20
M94292-4	114877	8.61	220217	9.47	139780	12.72	77189	15.28	82310	6.19
M94292-1	110879	8.61	221691	9.47	139928	12.72	77406	15.28	73966	6.20
M94292-3	111288	8.61	216532	9.47	135906	12.72	74960	15.28	73789	6.19
M94292-1	104639	8.61	203626	9.47	131188	12.72	71440	15.28	74839	6.19
ZZZZZZ	102333	8.61	201583	9.47	132127	12.72	75946	15.28	65481	6.20
ZZZZZZ	103760	8.61	200269	9.47	129154	12.72	67325	15.28	65028	6.19

IS 1 = Pentafluorobenzene
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M94292-1	N45734.D	109.0	95.0	100.0
M94292-1	N45730.D	107.0	93.0	99.0
M94292-2	N45727.D	105.0	93.0	99.0
M94292-3	N45731.D	107.0	94.0	101.0
M94292-4	N45729.D	104.0	94.0	101.0
M94292-5	N45728.D	103.0	93.0	99.0
MSN1728-BS	N45723A.D	100.0	93.0	91.0
MSN1728-BSD	N45724A.D	101.0	93.0	91.0
MSN1728-MB	N45726A.D	102.0	92.0	99.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

New England ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22692-MB	F49434.D	1	09/20/10	AA	09/17/10	OP22692	MSF2358

The QC reported here applies to the following samples: **Method:** SW846 8270C

M94292-2

CAS No.	Compound	Result	RL	MDL	Units	Q
85-68-7	Butyl benzyl phthalate	ND	5.0	0.41	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	0.34	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	0.34	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	0.61	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	1.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.49	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	38%	15-110%
4165-62-2	Phenol-d5	37%	15-110%
118-79-6	2,4,6-Tribromophenol	35%	15-110%
4165-60-0	Nitrobenzene-d5	42%	30-130%
321-60-8	2-Fluorobiphenyl	41%	30-130%
1718-51-0	Terphenyl-d14	46%	30-130%

Method Blank Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22693-MB	I68058.D	1	09/22/10	AA	09/17/10	OP22693	MSI2346

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

M94292-3, M94292-4, M94292-5

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	1.0	ug/l	
83-32-9	Acenaphthene	ND	0.10	0.012	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.028	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.011	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.013	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.0096	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.015	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.011	ug/l	
218-01-9	Chrysene	ND	0.10	0.012	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.016	ug/l	
86-73-7	Fluorene	ND	0.10	0.044	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.013	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	0.012	ug/l	
91-20-3	Naphthalene	ND	0.10	0.011	ug/l	
85-01-8	Phenanthrene	ND	0.050	0.012	ug/l	
129-00-0	Pyrene	ND	0.10	0.020	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	80%	15-110%
4165-62-2	Phenol-d5	79%	15-110%
118-79-6	2,4,6-Tribromophenol	94%	15-110%
4165-60-0	Nitrobenzene-d5	83%	30-130%
321-60-8	2-Fluorobiphenyl	85%	30-130%
1718-51-0	Terphenyl-d14	103%	30-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22692-BS	F49435.D	1	09/20/10	AA	09/17/10	OP22692	MSF2358
OP22692-BSD	F49436.D	1	09/20/10	AA	09/17/10	OP22692	MSF2358

The QC reported here applies to the following samples: **Method:** SW846 8270C

M94292-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
85-68-7	Butyl benzyl phthalate	50	43.9	88	43.2	86	2	40-140/20
84-74-2	Di-n-butyl phthalate	50	41.9	84	41.6	83	1	40-140/20
117-84-0	Di-n-octyl phthalate	50	49.9	100	49.5	99	1	40-140/20
84-66-2	Diethyl phthalate	50	40.5	81	39.6	79	2	40-140/20
131-11-3	Dimethyl phthalate	50	38.0	76	37.9	76	0	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.7	89	44.4	89	1	40-140/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	33%	33%	15-110%
4165-62-2	Phenol-d5	21%	21%	15-110%
118-79-6	2,4,6-Tribromophenol	61%	62%	15-110%
4165-60-0	Nitrobenzene-d5	78%	80%	30-130%
321-60-8	2-Fluorobiphenyl	67%	71%	30-130%
1718-51-0	Terphenyl-d14	77%	73%	30-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22693-BS	I68059.D	1	09/22/10	AA	09/17/10	OP22693	MSI2346
OP22693-BSD	I68060.D	1	09/22/10	AA	09/17/10	OP22693	MSI2346

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

M94292-3, M94292-4, M94292-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-86-5	Pentachlorophenol	100	85.1	85	85.4	85	0	15-130/30
83-32-9	Acenaphthene	50	37.7	75	38.5	77	2	40-140/30
208-96-8	Acenaphthylene	50	35.0	70	36.2	72	3	40-140/30
120-12-7	Anthracene	50	43.3	87	42.5	85	2	40-140/30
56-55-3	Benzo(a)anthracene	50	49.9	100	49.1	98	2	40-140/30
50-32-8	Benzo(a)pyrene	50	37.5	75	36.6	73	2	40-140/30
205-99-2	Benzo(b)fluoranthene	50	39.7	79	38.7	77	3	40-140/30
191-24-2	Benzo(g,h,i)perylene	50	44.4	89	43.4	87	2	40-140/30
207-08-9	Benzo(k)fluoranthene	50	45.0	90	43.9	88	2	40-140/30
218-01-9	Chrysene	50	42.8	86	42.3	85	1	40-140/30
53-70-3	Dibenzo(a,h)anthracene	50	37.9	76	37.0	74	2	40-140/30
206-44-0	Fluoranthene	50	45.5	91	44.0	88	3	40-140/30
86-73-7	Fluorene	50	41.3	83	40.9	82	1	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	50	38.6	77	37.5	75	3	40-140/30
91-57-6	2-Methylnaphthalene	50	34.0	68	35.0	70	3	40-140/30
91-20-3	Naphthalene	50	34.1	68	35.4	71	4	40-140/30
85-01-8	Phenanthrene	50	37.1	74	36.9	74	1	40-140/30
129-00-0	Pyrene	50	43.4	87	43.2	86	0	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	36%	36%	15-110%
4165-62-2	Phenol-d5	22%	23%	15-110%
118-79-6	2,4,6-Tribromophenol	87%	87%	15-110%
4165-60-0	Nitrobenzene-d5	77%	79%	30-130%
321-60-8	2-Fluorobiphenyl	74%	78%	30-130%
1718-51-0	Terphenyl-d14	86%	84%	30-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP22692-MS	F49437.D	1	09/20/10	AA	09/17/10	OP22692	MSF2358
OP22692-MSD	F49438.D	1	09/20/10	AA	09/17/10	OP22692	MSF2358
M94245-5	F49439.D	1	09/20/10	AA	09/17/10	OP22692	MSF2358

The QC reported here applies to the following samples: **Method:** SW846 8270C

M94292-2

CAS No.	Compound	M94245-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
85-68-7	Butyl benzyl phthalate	ND		50	42.6	85	38.1	76	11	40-140/20
84-74-2	Di-n-butyl phthalate	0.83		50	39.7	78	36.0	70	10	40-140/20
117-84-0	Di-n-octyl phthalate	ND		50	48.3	97	41.8	84	14	40-140/20
84-66-2	Diethyl phthalate	ND		50	37.9	76	34.1	68	11	40-140/20
131-11-3	Dimethyl phthalate	ND		50	36.7	73	32.9	66	11	40-140/20
117-81-7	bis(2-Ethylhexyl)phthalate	0.50		50	44.1	87	38.2	75	14	40-140/20

CAS No.	Surrogate Recoveries	MS	MSD	M94245-5	Limits
367-12-4	2-Fluorophenol	33%	28%	21%	15-110%
4165-62-2	Phenol-d5	20%	19%	13%* [a]	15-110%
118-79-6	2,4,6-Tribromophenol	59%	54%	51%	15-110%
4165-60-0	Nitrobenzene-d5	77%	66%	52%	30-130%
321-60-8	2-Fluorobiphenyl	70%	61%	46%	30-130%
1718-51-0	Terphenyl-d14	72%	60%	58%	30-130%

(a) Outside control limits due to possible matrix interference.

Semivolatile Internal Standard Area Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Check Std: MSF2358-CC2328 **Injection Date:** 09/20/10
Lab File ID: F49428.D **Injection Time:** 10:58
Instrument ID: GCMSF **Method:** SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	165082	5.17	618717	6.44	340715	8.84	550074	11.34	610239	16.28	626030	18.80
Upper Limit [a]	330164	5.67	1237434	6.94	681430	9.34	1100148	11.84	1220478	16.78	1252060	19.30
Lower Limit [b]	82541	4.67	309359	5.94	170358	8.34	275037	10.84	305120	15.78	313015	18.30

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP22605-BSD	207103	5.17	799094	6.43	438728	8.84	699364	11.33	768375	16.28	766525	18.80
OP22605-MS	184264	5.17	716647	6.44	394406	8.84	622058	11.34	680761	16.27	686335	18.80
OP22605-MSD	219546	5.17	848411	6.43	463728	8.84	715649	11.33	770654	16.27	801150	18.80
M94138-10	229000	5.17	891472	6.44	479666	8.84	716443	11.34	754721	16.27	804969	18.80
OP22692-MB	323360[c]	5.17	1224889[c]	6.44	685879[c]	8.84	1049183[c]	11.34	1074509[c]	16.28	1060919[c]	18.81
OP22692-BS	344391[c]	5.17	1359165[c]	6.44	782431[c]	8.84	1254743[c]	11.35	1375586[c]	16.29	1381534[c]	18.81
OP22692-BSD	148285	5.17	603368	6.44	344489	8.84	535135	11.34	590729	16.28	583499	18.81
OP22692-MS	156588	5.17	605580	6.44	336680	8.84	521229	11.34	538424	16.28	550591	18.81
OP22692-MSD	201466	5.17	830931	6.44	469465	8.85	728677	11.35	791948	16.29	808925	18.82
M94245-5	176535	5.17	725573	6.44	419755	8.84	640106	11.34	692002	16.28	694148	18.82
ZZZZZZ	162838	5.17	621675	6.44	350311	8.84	540236	11.34	591852	16.28	606989	18.81
ZZZZZZ	159923	5.17	633138	6.44	351105	8.84	547930	11.34	578042	16.28	596443	18.82
ZZZZZZ	188666	5.17	719401	6.43	397724	8.84	618686	11.34	665717	16.28	690924	18.81
M94292-2	195633	5.17	740101	6.44	411685	8.84	635518	11.34	702102	16.28	740309	18.82
ZZZZZZ	226934	5.17	884570	6.44	494929	8.84	760271	11.34	809568	16.29	867155	18.82
ZZZZZZ	208762	5.17	782511	6.44	432580	8.84	654896	11.34	702794	16.29	768801	18.82
ZZZZZZ	214184	5.17	814718	6.44	451107	8.84	703641	11.34	764585	16.28	823821	18.82
OP22700-MB	224644	5.18	853649	6.44	467295	8.84	726024	11.34	793261	16.29	861376	18.82
OP22700-BS	252330	5.17	969245	6.44	548752	8.85	869290	11.35	917985	16.29	958942	18.82
M94177-1A	238875	5.17	900873	6.44	498770	8.84	776552	11.34	846539	16.29	901297	18.82
ZZZZZZ	260001	5.17	994475	6.44	548433	8.84	836844	11.34	914402	16.29	1003507	18.82

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Internal standard spiked at 2x concentration.

Semivolatile Internal Standard Area Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Check Std:	MSI2347-ICC2347	**Injection Date:**	09/21/10
Lab File ID:	I68046A.D	**Injection Time:**	18:15
Instrument ID:	GCMSI	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	26357	5.53	107233	6.84	71139	9.33	138326	11.84	157855	16.82	122502	19.35
Upper Limit [a]	52714	6.03	214466	7.34	142278	9.83	276652	12.34	315710	17.32	245004	19.85
Lower Limit [b]	13179	5.03	53617	6.34	35570	8.83	69163	11.34	78928	16.32	61251	18.85

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP22588-BSD	35139	5.53	147455	6.84	98145	9.33	189944	11.84	214366	16.82	170335	19.35
ZZZZZZ	40783	5.54	163597	6.84	104748	9.32	200774	11.84	211927	16.81	177810	19.35
OP22693-MB	38828	5.54	155340	6.85	100518	9.32	189834	11.84	189794	16.81	162094	19.35
OP22693-BS	33056	5.53	141478	6.84	91123	9.32	171336	11.84	189822	16.82	158005	19.35
OP22693-BSD	32814	5.53	141991	6.84	89553	9.32	165658	11.84	177251	16.82	148975	19.35
ZZZZZZ	34882	5.53	153274	6.84	98841	9.32	185103	11.84	193102	16.81	173994	19.35
ZZZZZZ	27701	5.53	122890	6.84	78523	9.32	150929	11.84	166264	16.81	150571	19.35
M94292-3	27159	5.53	118883	6.84	75390	9.32	142088	11.84	158044	16.81	142172	19.35
M94292-4	29368	5.53	128111	6.84	81176	9.32	154491	11.84	163639	16.81	147112	19.35
M94292-5	35492	5.53	156470	6.84	96811	9.32	183497	11.84	190097	16.81	168115	19.35
ZZZZZZ	28766	5.53	123510	6.84	79705	9.32	153675	11.84	165762	16.81	145791	19.35

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
M94292-2	F49443.D	44.0	41.0	33.0
OP22692-BS	F49435.D	78.0	67.0	77.0
OP22692-BSD	F49436.D	80.0	71.0	73.0
OP22692-MB	F49434.D	42.0	41.0	46.0
OP22692-MS	F49437.D	77.0	70.0	72.0
OP22692-MSD	F49438.D	66.0	61.0	60.0

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	30-130%
S2 = 2-Fluorobiphenyl	30-130%
S3 = Terphenyl-d14	30-130%

Semivolatile Surrogate Recovery Summary

Job Number: M94292
Account: HWIMAB Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
M94292-3	I68063.D	35.0	22.0	81.0	70.0	67.0	59.0
M94292-4	I68064.D	33.0	21.0	77.0	68.0	64.0	59.0
M94292-5	I68065.D	29.0	19.0	77.0	57.0	56.0	63.0
OP22693-BS	I68059.D	36.0	22.0	87.0	77.0	74.0	86.0
OP22693-BSD	I68060.D	36.0	23.0	87.0	79.0	78.0	84.0
OP22693-MB	I68058.D	80.0	79.0	94.0	83.0	85.0	103.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	15-110%
S3 = 2,4,6-Tribromophenol	15-110%
S4 = Nitrobenzene-d5	30-130%
S5 = 2-Fluorobiphenyl	30-130%
S6 = Terphenyl-d14	30-130%

New England ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M94292
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15939
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/17/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	17	17		
Antimony	6.0	1.2	1.2		
Arsenic	4.0	1.1	1.9		
Barium	50	.36	3.7		
Beryllium	4.0	.18	.18		
Boron	100	.34	1.5		
Cadmium	4.0	.08	.12		
Calcium	5000	18	39		
Chromium	10	.48	.53		
Cobalt	50	.19	.28		
Copper	25	.92	.92		
Gold	50	1.3	1.7		
Iron	100	5.2	5.2	7.7	<100
Lead	5.0	1	1.5		
Magnesium	5000	72	72		
Manganese	15	.14	.9		
Molybdenum	100	.15	.64		
Nickel	40	.25	.3		
Palladium	50	2.3	2.5		
Platinum	50	8.4	8.4		
Potassium	5000	44	44		
Selenium	10	1.1	1.7		
Silicon	100	6.4	7.2		
Silver	5.0	1	1		
Sodium	5000	29	31		
Strontium	10	.4	.4		
Thallium	10	.65	.74		
Tin	100	.45	.45		
Titanium	50	.84	.84		
Tungsten	100	5.8	12		
Vanadium	10	.87	1.1		
Zinc	20	.27	2		

Associated samples MP15939: M94292-2

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: M94292
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15939 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94292
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15939
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/17/10 09/17/10

Metal	M94282-1 Original	MS	Spikelot MPICP	% Rec	QC Limits	M94282-1 Original	DUP	RPD	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	anr								
Gold	anr								
Iron	62.4	2030	2000	98.4	70-130	62.4	66.7	6.7	0-20
Lead	anr								
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Palladium									
Platinum									
Potassium									
Selenium									
Silicon									
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin	anr								
Titanium									
Tungsten									
Vanadium									
Zinc									

Associated samples MP15939: M94292-2

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: M94292
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15939
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M94292
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15939
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/17/10

Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	anr			
Gold	anr			
Iron	2030	2000	101.5	85-115
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium				
Selenium				
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin	anr			
Titanium				
Tungsten				
Vanadium				
Zinc				

Associated samples MP15939: M94292-2

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: M94292
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15939
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: M94292
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15939
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 09/17/10

Metal	M94282-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	anr			
Gold	anr			
Iron	62.4	64.0	2.6	0-10
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium				
Selenium				
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin	anr			
Titanium				
Tungsten				
Vanadium				
Zinc				

Associated samples MP15939: M94292-2

SERIAL DILUTION RESULTS SUMMARY

Login Number: M94292
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

QC Batch ID: MP15939
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:

Metal

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

New England ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M94292
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP12047/GN32892	0.010	0.0	mg/l	0.1	0.103	103.0	90-110%
Cyanide	GP12047/GN32892			mg/l	0.2	0.206	103.0	90-110%
Weak Acid Dissociable Cn	GP12048/GN32893	0.010	0.0	mg/l	0.1	0.107	107.0	80-120%
Weak Acid Dissociable Cn	GP12048/GN32893			mg/l	0.2	0.215	107.5	80-120%

Associated Samples:
Batch GP12047: M94292-3, M94292-4, M94292-5
Batch GP12048: M94292-3, M94292-4, M94292-5
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M94292
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP12047/GN32892	M94292-5	mg/l	0.0	0.0	0.0	0-20%
Weak Acid Dissociable Cn	GP12048/GN32893	M94292-5	mg/l	0.0	0.0	0.0	0-20%

Associated Samples:
Batch GP12047: M94292-3, M94292-4, M94292-5
Batch GP12048: M94292-3, M94292-4, M94292-5
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: M94292
Account: HWIMAB - Honeywell International Inc.
Project: CHMHLMAB:Brighton MA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP12047/GN32892	M94292-5	mg/l	0.0	0.1	0.091	91.0	90-110%
Weak Acid Dissociable Cn	GP12048/GN32893	M94292-5	mg/l	0.0	0.1	0.095	95.0	75-125%

Associated Samples:
Batch GP12047: M94292-3, M94292-4, M94292-5
Batch GP12048: M94292-3, M94292-4, M94292-5
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Exhibit 2 – Dilution Factor Calculations

DF = (Qd + Qs)/Qd

Where:
DF = Dilution Factor
Qd = Maximum flow rate of the discharge in cubic feet per second (cfs)
Qs = Receiving water 7Q10 flow where, 7Q10 = The minimum flow for 7 consecutive days with a recurrence interval of 10 years

The receiving water for the MC system is the Charles River via storm drain.

The Charles River 7Q10 Flow is based on information obtained from USGS stream stats website and using the approximate location of the Outfall into the Charles River (Outfall #25E037) = **23.6 cubic feet per second** (http://streamstats.usgs.gov)

1.0 gpm = .00223 cfs

FD system effluent maximum flow based on treatment system capabilities:
10 gallons per minute **= 0.0223 cfs**

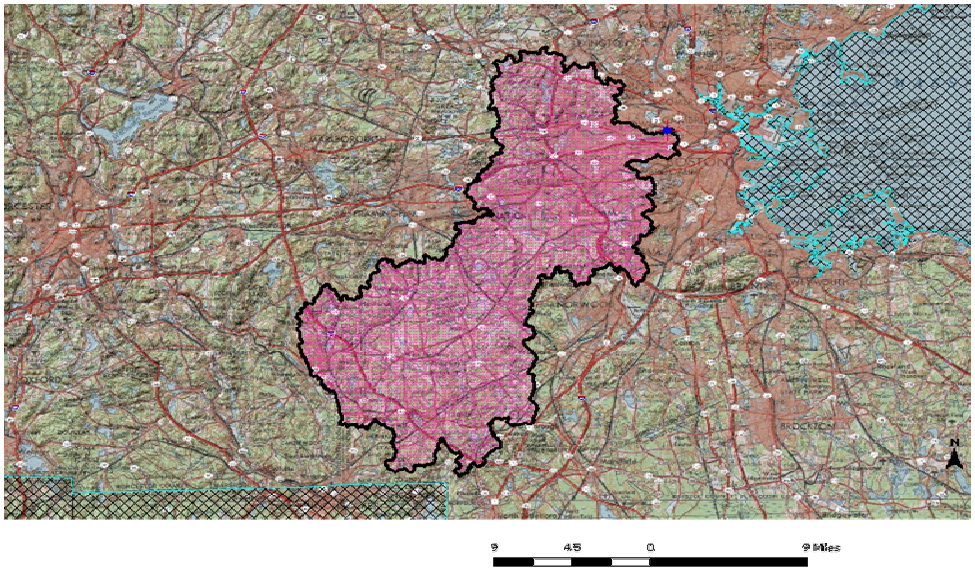
Footer Drain System DF = (0.0223 cfs+23.6 cfs)/0.0223 cfs
DF=(23.6223)/0.0223
DF=1059.3

Location	Parameter	September 28, 2010 Influent Concentration (ug/L)	Effluent Limit from Appendix IV with DF Applied (ug/L)
Footer Drain	COPPER	7.5 J	260
	IRON	223	5,000
	NICKEL	5.2 J	1,451
	LEAD	3.1 J	66
	CHROMIUM	0.5 J	570

Note: Shading indicates constituent exceeding the effluent limit after the DF has been applied.
ug/L: micrograms/ liters

USGS Massachusetts StreamStats

StreamStats Print Page



Legend

- GlobalWatershedPoint
- GlobalWatershed
- Excluded Areas
- nhdgages
- nhddams
- hucpoly
- Dendritic Stream Network

NHD Flowline

- <all other values>
- ArtificialPath
- CanalDitch
- Coastline
- Connector
- Pipeline
- StreamRiver
- Underground Conduit

Stream Gages

- Gaging Station, Continuous Record
- Low Flow, Partial Record
- Peak Flow, Partial Record
- Peak and Low Flow, Partial Record
- Miscellaneous Record
- Unknown

9/24/2010 8:53:34 AM

USGS Massachusetts StreamStats

Streamstats Ungaged Site Report

Date: Fri Sep 24 2010 08:52:44 Mountain Daylight Time
Site Location: Massachusetts
NAD27 Latitude: 42.3705 (42 22 14)
NAD27 Longitude: -71.1323 (-71 07 56)
NAD83 Latitude: 42.3706 (42 22 14)
NAD83 Longitude: -71.1318 (-71 07 55)
ReachCode: 01090001000111
Measure: 48.13
Drainage Area: 280 mi2

Low Flows Basin Characteristics

100% Statewide Low Flow (280 mi2)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	280 (above max value 149)	1.61	149
Mean Basin Slope from 250K DEM (percent)	2.34	0.32	24.6
Stratified Drift per Stream Length (square mile per mile)	0.22	0	1.29
Massachusetts Region (dimensionless)	0	0	1

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Probability of Perennial Flow Basin Characteristics

100% Perennial Flow Probability (280 mi2)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	280 (above max value 1.99)	0.01	1.99
Percent Underlain By Sand And Gravel (percent)	47.39	0	100
Percent Forest (percent)	42.38	0	100
Massachusetts Region (dimensionless)	0	0	1

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Low Flows Streamflow Statistics

Statistic	Flow (ft^3/s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
D50	299				
D60	246				
D70	168				
D75	137				
D80	106				
D85	85.2				
D90	65.9				
D95	44.5				
D98	29.7				
D99	24.6				
M7D2Y	47.8				
AUGD50	91.2				
M7D10Y	23.6				

The equation for estimating the probability of perennial flow is applicable for most areas of Massachusetts except eastern Buzzards Bay, Cape Cod, and the Island regions. The estimate obtained from the equation assumes natural flow conditions at the site. The equation also is best used for sites with drainage areas between 0.01 to 1.99 mi2, as errors beyond for basins beyond these bounds are unknown.

Probability of Perennial Flow Statistics

Statistic	Value	Standard Error (percent)
PROBPEREN	1	

Exhibit 3 – MSDS Sheets

USFilter

Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

****

Product Name: ACTIVATED CARBON, *AquaCarb™ Series, VOCarb™ Series, AC Series, VC Series, BevCarb™ Series, and UltraCarb™ Series*
Part Number:100 **Chemical Family**: activated carbon

Manufacturer's Name: U.S. FILTER WESTATES CARBON
Address: 5375 South Boyle Avenue, Los Angeles, CA 90058
Product/Technical Information Phone Number: (323) 277-1500
Medical/Handling Emergency Phone Number: CHEMTREC 1-800-424-9300
Transportation Emergency Phone Number: CHEMTREC 1-800-424-9300

Revision Date/Revision Number: August 28, 2002/Revision #2

SECTION 2 – COMPOSITION INFORMATION

****

Chemical Name	Percent by Weight	CAS#
Activated Carbon	100	7440-44-0

SECTION 3 – HAZARDS IDENTIFICATION

****

Appearance & Odor: black granules without taste or odor
Emergency Overview: Dust that contacts eyes may be irritating or cause mechanical injury. Dust may cause slight skin irritation. Dust may be irritating to the respiratory tract and cause coughing or sneezing. Ingestion of powder may be irritating to the gastrointestinal tract. Warning: Wet activated carbon depletes oxygen from the air and therefore dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.
Fire &Explosion Hazards: When burned**,** hazardous products of combustion including carbon oxides can occur. Irritating and/or toxic gases due to decomposition of the product may be generated during a fire. Fight fire from a safe distance from a protected location. Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.
Primary Route(s) of Exposure: Eye contact, skin contact, ingestion, or inhalation are all possible routes of entry.
Inhalation- Acute Effects: Dust may be irritating to the respiratory tract and cause coughing or sneezing.
Skin Contact-Acute Effects: Dust may cause slight skin irritation.

SECTION 3 – HAZARDS IDENTIFICATION (continued)

****

Eye Contact- Acute Effects: Dust that contacts eyes may be irritating or cause mechanical injury.
Ingestion- Acute Effects: Ingestion of powder may be irritating to the gastrointestinal tract.

SECTION 4 – FIRST AID MEASURES

****

Inhalation First Aid: Remove affected person from area to fresh air and provide oxygen if breathing is difficult. Give artificial respiration ONLY if breathing has stopped and give CPR ONLY if there is no breathing and no pulse. Obtain medical attention.
Skin Contact First Aid: Wash skin for 5 minutes with flowing water and soap. Clothing should be discarded or washed before reuse. Obtain medical assistance if irritation develops. DO NOT instruct person to neutralize affected skin area.
Eye Contact First Aid: Immediately irrigate eyes with flowing water continuously for 15 minutes while holding eyes open. Contacts should be removed before or during flushing. Seek medical assistance if irritation develops. DO NOT instruct person to neutralize.
Ingestion First Aid: Vomiting may need to be induced if directed by a physician or poison control center. DO NOT have unqualified personnel induce vomiting. Obtain medical attention immediately.
Medical Conditions Aggravated: Respiratory ailments may be aggravated by exposure to this product.
Note to Physician: No specific antidote, treat patient symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

****

Flash Point/Method: Nonflammable
Auto Ignition Temperature: 840°C (1,710°F)
Upper/Lower Explosion Limits: not applicable

Extinguishing Media: Water spray, carbon dioxide, foam or dry chemical
Fire Fighting Procedures: In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece, operated in the positive pressure mode.
Fire & Explosion Hazards: When burned**,** hazardous products of combustion including carbon oxides can occur. Irritating and/or toxic gases due to decomposition of the product may be generated during a fire. Fight fire from a safe distance from a protected location. Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.
Hazardous Products of Decomposition and /or Combustion: Carbon oxides**.**

NFPA Ratings:

HEALTH-1 FLAMMABILITY- 0 REACTIVITY-0 OTHER- none

SECTION 6 – ACCIDENTAL RELEASE MEASURES

****

Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure, and removal of material from eyes, skin, and clothing. Dispose of virgin (unused) carbon (waste or spillage) in a facility permitted for non-hazardous wastes. Spent (used) carbon should be disposed of in accordance with applicable laws. Do not reuse empty bags. Dispose of in facility permitted for non-hazardous wastes. DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State, Local and Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION 7 – HANDLING AND STORAGE

****

Handling: Avoid dispersion into air. Keep containers dry and closed. Follow good handling and housekeeping practices to minimize spills, generation of airborne dusts, and accumulation of dusts on exposed surfaces. Use with adequate exhaust ventilation to draw dust away from workers' breathing zones. Prevent or minimize exposures to dusts by using appropriate respirators, gloves, and eye protection. Wash exposed skin areas thoroughly with soap and water. Use caution when pouring, using pneumatic transport, swirling, etc. as this material can become electrostatically charged.

Storage: Avoid breaking bags or spilling media so as to avoid possibly creating residual dust. Store in ambient atmospheric conditions. Product should be stored in a closed dry container. Maintain good housekeeping procedures. Store away from strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc.

General Comments: Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8 –PERSONAL PROTECTION/ EXPOSURE CONTROL

****

Respiratory Protection: Use NIOSH/MSHA approved respiratory protection equipment appropriate to the material and/or its concentration where airborne exposure is likely. If exposures cannot be kept to a minimum with engineering controls, consult manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer.

Skin Protection: Wear appropriate dust resistant clothing and gloves.

Eye Protection: Safety glasses with side shields are recommended for any type of handling. Where eye contact or dusty conditions may be likely, dust tight goggles are recommended.

SECTION 8 –PERSONAL PROTECTION/ EXPOSURE CONTROL (continued)

****

Ventilation Protection: Provide ventilation if necessary to minimize exposure. Dilute ventilation acceptable, but local mechanical exhaust ventilation preferred, if practical, at sources of air contamination such as open process equipment. The following publication offers ventilation guidelines and techniques: "INDUSTRIAL VENTILATION, A MANUAL OF RECOMMENDED PRACTICE" available from the ACGIH.
Other Protection: Safety showers, with quick opening valves which stay open, and eye wash fountains, or other means of washing the eyes with a gentle flow of cool to tepid tap water, should be readily available in all areas where this material is handled or stored. Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather.

Exposure Limits:
OSHA PEL-TWA: 15 mg/m^3 (total), 5 mg/ m^3 (resp)
OSHA PEL-STEL: 10 mg/m^3

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

****

Appearance & Odor: black granules without taste or odor

Vapor Pressure: zero	**Vapor Density (Air=1):** not applicable
Boiling Point: not applicable	**Melting Point**: not applicable
Specific Gravity: 0.25 - 0.60 g/cc	**Solubility in Water**: Insoluble
Volatile Percentage: 0%	**pH**: not determined
Flash Point/method: Nonflammable	**Auto Ignition Temperature**: 840°C
Upper/Lower Explosion Limits: not applicable	**Other:** none

SECTION 10 – STABILITY AND REACTIVITY

****

Stability: This product is considered stable under the specified conditions of storage, shipment and use.
Incompatibilities: Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids.
Polymerization: Hazardous polymerization will not occur.
Decomposition: Hazardous decomposition will produce carbon oxides.
Conditions to avoid: Store away from strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. Moist air will reduce the operating life.

SECTION 11 – TOXICOLOGICAL INFORMATION

****

INHALATION – Acute: Inhalation of carbon dust is mildly irritating to the lungs and can immediately give rise to an increased mucociliary transport and airway resistance mediated by the vagus. The inhalation LC50 (Rat) is > 64.4 mg/l.
INHALATION – Chronic: There are no known chronic inhalation effects.
SKIN CONTACT – Acute: Skin contact is expected to be slightly irritating. The primary skin irritation index (rabbit) is 0.

SECTION 11 – TOXICOLOGICAL INFORMATION (continued)

****

SKIN CONTACT – Chronic: There are no known chronic dermal effects.
EYE CONTACT – Acute: Eye contact can cause conjunctivitis, epithelial hyperplasia of the cornea, as well as eczematous inflammation of the eyelids.
INGESTION – Acute: Carbon is practically nontoxic. The probable oral lethal dose (human) is greater than 15 g/kg; more than one quart (2.2 lbs) for a 70 kg (150 lb) person.
INGESTION – Chronic: There are no known chronic ingestion effects.
CARCINOGENICITY/MUTAGENICITY: There are no known carcinogenic/mutagenic effects.
REPRODUCTIVE EFFECTS: There are no known reproductive effects.
NEUROTOXICITY: There are no known neurotoxic effects.
OTHER EFFECTS: No other toxic effects of carbon are known.
TARGET ORGANS: Target organs include the respiratory system and the cardiovascular system**.**

SECTION 12 – ECOLOGICAL INFORMATION

****

This material, in its original state, is not harmful to the environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

****

Clean spills in a manner that does not disperse dust into the air, preferably a wet-down procedure or vacuum. If material is not contaminated, spilled media can be rebagged. Material that cannot be used or chemically reprocessed and empty containers should be disposed of in accordance with all applicable regulations. Product containers should be thoroughly emptied before disposal. Generators of waste material are required to evaluate all waste for compliance with RCRA and any local disposal procedures and regulations. NOTE: State and local regulations may be more stringent than federal regulations.

Warning: Wet activated carbon depletes oxygen from the air and therefore dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.

SECTION 14 – TRANSPORTATION INFORMATION

****

DOT Shipping Description: Not DOT Regulated

SECTION 15 – REGULATORY INFORMATION

****

CERCLA SECTION 103 (40CFR302.4): no RQ: none
SARA SECTION 302 (40CFR355.30): no
SARA SECTION 304 (40CFR355.40): no
SARA SECTION 313 (40CFR372.65): no
SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):
ACUTE: yes CHRONIC: no FIRE: no REACTIVE: no SUDDEN RELEASE: no
OSHA PROCESS SAFETY (29CFR1910.119): no
CALIFORNIA PROPOSITION 65: no

SECTION 16 – OTHER INFORMATION

****

Disclaimer: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the user thereof. It is the buyer's responsibility to ensure that its activities comply with federal, state, provincial and local laws.

Created by: James R. Graham

SIEMENS **Water Technologies**

Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: A-284 Ion Exchange Resin
Part Number: multiple **Chemical Family**: anion exchange resin

Manufacturer's Name: Siemens Water Technologies Corp.
Address: 181 Thorn Hill Road, Warrendale, PA 15086
Product/Technical Information Phone Number: (815) 877-3041
Medical/Handling Emergency Phone Number: Call CHEMTREC at (800) 424-9300 24 hours a day
Transportation Emergency Phone Number: Call CHEMTREC at (800) 424-9300 24 hours a day
Issue Date: April 1, 2000
Revision Date/Revision Number: February 18, 2003/Rev 2

SECTION 2 – COMPOSITION INFORMATION

Chemical Name	Percent by Weight	CAS#
Trimethylamine functionalized, chloromethylated copolymer of styrene and divinylbenzene in the chloride form	40 - 70 %	60177-39-1
Water	30 - 60 %	7732-18-5

SECTION 3 – HAZARDS IDENTIFICATION

Appearance & Odor: Spherical amber colored beads/Odorless to slight amine odor

Emergency Overview:

- May cause eye irritation.
- May cause toxic fumes/vapors if burned.
- May react violently when exposed to oxidizing agents such as Nitric Acid (HNO_3).

Fire & Explosion Hazards: This material will not burn until moisture is removed, then resin starts to burn in flame at 230°C. Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Nitric acid and other strong oxidizing agents can cause explosive-type reactions when mixed with ion exchange resins. Proper design of equipment to prevent build up of pressure is necessary if use of an oxidizing agent such as nitric acid is contemplated.

Primary Route(s) of Exposure: skin and eye contact

Inhalation – Acute Effects: Vapors are unlikely due to physical properties.

Skin Contact – Acute Effects: Prolonged or repeated exposure is not likely to cause significant skin irritation. May cause more severe response if skin is scratched or cut. Skin absorption is unlikely due to physical properties.

Eye Contact – Acute Effects: May cause severe eye irritation. May cause moderate corneal injury. Effects are likely to heal.

Ingestion – Acute Effects: Single dose oral toxicity is considered to be low. No hazards anticipated from swallowing small amounts incidental to normal handling operation.

SECTION 4 – FIRST AID MEASURES

Inhalation First Aid: Remove affected person from area to fresh air and provide oxygen if breathing is difficult. Give artificial respiration ONLY if breathing has stopped and give CPR ONLY if there is no breathing and no pulse. Obtain medical attention. No adverse effects anticipated by this route of exposure.

Skin Contact First Aid: Immediately remove clothing from affected area and wash skin vigorously with flowing water. Clothing should be washed before reuse. DO NOT instruct person to neutralize affected skin area.

Eye Contact First Aid: Immediately irrigate eyes with flowing water continuously for 15 minutes while holding eyes open. Contacts should be removed before or during flushing. Obtain medical attention. DO NOT instruct person to neutralize.

Ingestion First Aid: No adverse effects anticipated by this route of exposure incidental to proper industrial handling. If ingestion does occur, if victim is alert and not convulsing rinse mouth with water and give plenty of water to drink. If spontaneous vomiting occurs, have affected person lean forward with head down to avoid breathing in of vomitus. Rinse mouth again and give more water to drink. Obtain medical attention.

Medical Conditions Aggravated: There are no known conditions aggravated by exposure.

Note to Physician: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point/Method: not applicable

Auto Ignition Temperature: Above 500°C (900°F)

Upper/Lower Explosion Limits: not applicable

Extinguishing Media: Water, carbon dioxide, dry chemical

Fire Fighting Procedures: Keep people away. Isolate fire area and deny unnecessary entry. Cool surrounding area with water to localize fire zone. Soak thoroughly with water to cool and prevent reignition.

Fire-Fighting Equipment: NIOSH approved positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves). If protective equipment is not available or not used, fight fire from a protected location or a safe distance.

Fire & Explosion Hazards: This material will not burn until moisture is removed, then resin starts to burn in flame at 230°C. Under fire conditions some components of this product may

decompose. The smoke may contain unidentified toxic and/or irritating compounds. Nitric acid and other strong oxidizing agents can cause explosive-type reactions when mixed with ion exchange resins. Proper design of equipment to prevent build up of pressure is necessary if use of an oxidizing agent such as nitric acid is contemplated.

Hazardous Products of Decomposition and/or Combustion: May include but not limited to hydrocarbons, sulfur oxides, organic sulfonates, carbon monoxide, carbon dioxide and benzene compounds.

NFPA Ratings:
HEALTH- 1 FLAMMABILITY- 1 REACTIVITY- 1 OTHER- none

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Isolate spill area to prevent falls as material can be a slipping hazard. Avoid contact with eyes and skin. Material is heavier than water and has limited water solubility. It will collect on the lowest surface.

Cleanup: Clean up floor area. Sweep up. Avoid generation of dust.

Regulatory Requirements: Follow all applicable Federal, State, Local, or Provincial regulations.

Disposal: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State, Local and Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION 7 – HANDLING AND STORAGE

Handling: Practice reasonable care and caution. Metal equipment should be compatible with feed, regenerant, resin form and effluent of that process.

Storage: Keep containers tightly closed when not in use. Store between 2° - 38°C (35° - 100°F).

General Comments: Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8 –PERSONAL PROTECTION/ EXPOSURE CONTROL

Respiratory Protection: No respiratory protection should be needed.

Skin Protection: Wear gloves impervious to this material to prevent skin contact.

Eye Protection: Wear protective eyeglasses or chemical safety goggles. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Ventilation Protection: Good general ventilation should be sufficient.

Other Protection: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Safety showers, with quick opening valves which stay open, and eye wash fountains, or other means of washing the eyes with a gentle flow of cool to tepid tap water, should be readily available in all areas where this material is handled or stored. Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather.

Exposure Limits:
No exposure limits have been developed.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Spherical amber colored beads/Odorless to slight amine odor

Vapor Pressure: 17 mmHg @ 20°C

Vapor Density (Air=1): <1

Boiling Point: 100°C/212°F

Melting Point: 0°C/32°F

Specific Gravity: 1.05

Solubility in Water: Insoluble

Volatile Percentage: 30-60%

pH: not applicable

Flash Point/method: not applicable

Auto Ignition Temperature: >500°C (900°F)

Upper/Lower Explosion Limits: not applicable

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal handling and storage conditions.

Incompatibilities: Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions and could result in slightly degraded resin up to an explosive reaction. Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

Polymerization: Hazardous polymerization cannot occur.

Decomposition: Hazardous decomposition products depend upon temperature, air supply, and the presence of other materials. Hazardous decomposition products may include and are not limited to: aromatic compounds, hydrocarbons, organic sulfonates, sulfur oxides.

Conditions to Avoid: Resin can decompose at temperatures greater than 90°C (194°F). Do not pack column with dry ion exchange resins. Dry beads expand when wet. This expansion can cause a glass column to shatter.

SECTION 11 – TOXICOLOGICAL INFORMATION

Inhalation – Acute: Vapors are unlikely due to physical properties.

Inhalation – Chronic: There are no known chronic inhalation effects.

Skin Contact – Acute: The dermal LD50 (rabbit) is >5000 mg/kg. Prolonged or repeated exposure is not likely to cause significant skin irritation. May cause more severe response if skin is scratched or cut. Skin absorption is unlikely due to physical properties.

Skin Contact – Chronic: There are no known chronic dermal effects.

Eye Contact – Acute: May cause severe eye irritation. May cause moderate corneal injury. Effects are likely to heal.

Ingestion – Acute: The oral LD50 (rat) is >5000 mg/kg. Single dose oral toxicity is considered to be low. No hazards anticipated from swallowing small amounts incidental to normal handling operation.

Ingestion – Chronic: There are no known chronic ingestion effects.

Carcinogenicity/Mutagenicity: Ames mutagenicity: Non-mutagenic.

Reproductive Effects: There are no known reproductive effects.

Neurotoxicity: There are no known neurotoxic effects.

Other Effects: There are no other known toxic effects.

Target Organs: This product will affect the eyes.

SECTION 12 – ECOLOGICAL INFORMATION

The environmental fate and ecological toxicity are not known.

SECTION 13 – DISPOSAL CONSIDERATIONS

Spill/Leak Procedures: Isolate spill area to prevent falls as material can be a slipping hazard. Avoid contact with eyes and skin. Material is heavier than water and has limited water solubility. It will collect on the lowest surface.

Cleanup: Clean up floor area. Sweep up. Avoid generation of dust.

Disposal: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State Local and Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION 14 – TRANSPORTATION INFORMATION

DOT Shipping Description: This product is not regulated by DOT when shipped domestically by land.

Canadian TDG Information: For TDG regulatory information, if required, consult transportation regulations, or product shipping papers.

SECTION 15 – REGULATORY INFORMATION

US Regulations:

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category: An immediate health hazard.

TSCA CONSIDERATIONS: Every different salt or ionic form of an ion exchange resin is a separate chemical. If you use an ion exchange resin for ion exchange purposes and then remove the by-product resin from its vessel or container prior to recovery of the original or another form of the resin or of another chemical, the by-product resin must be listed on the TSCA Inventory (unless an exemption is applicable). It is the responsibility of the customer to ensure that such isolated, recycled by-product resins are in compliance with TSCA. Failure to comply could result in substantial civil or criminal penalties being assessed by the EPA.

State Regulations: Consult individual state agency for further information.

Canadian Regulations:

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is: D2B - eye or skin irritant. Refer elsewhere in this MSDS for specific warnings and safe handling information.

CPR Statement: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16 – OTHER INFORMATION

Disclaimer: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the user thereof. It is the buyer's responsibility to ensure that its activities comply with federal, state, provincial and local laws.

Exhibit 4 – Fish and Wildlife Services Species of Concern

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 4, 2010

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 at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office

Group	Name	Population	Status	Lead Office	Recovery Plan Name	Recovery Plan Stage
Birds	Arctic peregrine Falcon (Falco		Recovery			
Birds	Piping Plover (Charadrius	except Great Lakes watershed	Threatened	Office Of The Regional Director	Piping Plover Atlantic Coast	Final Revision 1
Birds	Piping Plover (Charadrius	except Great Lakes watershed	Threatened	Office Of The Regional Director	Great Lakes & Northern Great	Final
Reptiles	Hawksbill sea turtle		Endangered	Jacksonville Ecological Services	Recovery Plan for the Hawksbill	Final Revision 1
Reptiles	Hawksbill sea turtle		Endangered	Jacksonville Ecological Services	Recovery Plan for U.S. Pacific	Final Revision 1
Reptiles	Leatherback sea turtle		Endangered	Jacksonville Ecological Services	Recovery Plan for U.S. Pacific	Final Revision 1
Reptiles	Leatherback sea turtle		Endangered	Jacksonville Ecological Services	Recovery Plan for Leatherback	Final Revision 1
Reptiles	Green sea turtle (Chelonia	except where endangered	Threatened	Jacksonville Ecological Services	Recovery Plan for U.S.	Final Revision 1
Reptiles	Green sea turtle (Chelonia	except where endangered	Threatened	Jacksonville Ecological Services	Recovery Plan for U.S. Pacific	Final Revision 1
Reptiles	Loggerhead sea turtle (Caretta		Threatened	Jacksonville Ecological Services	Recovery Plan for U.S. Pacific	Final Revision 1
Reptiles	Loggerhead sea turtle (Caretta		Threatened	Jacksonville Ecological Services	Recovery Plan for the Northwest	Final Revision 2

Fish and Wildlife Services
Endangered and Threatened Species
Suffolk, County Massachusetts