2009 Biannual Groundwater Monitoring
Sawyer Street Confined Disposal Facility

New Bedford, Massachusetts

Contract No. W912WJ-09-D-0001-0010

Prepared For:
United States Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA 01742

Prepared By:
Woods Hole Group, Inc.
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May 2010

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May 18, 2010

Mark Anderson
US Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA 01742

Dear Mr. Anderson,

Enclosed with this letter is the final technical memorandum detailing the 2009 biannual groundwater monitoring at the Sawyer Street Confined Disposal Facility in New Bedford, Massachusetts. The technical memorandum and associated field work was performed by the Woods Hole Group, Inc. (WHG) subcontractor MACTEC Engineering and Consulting, Inc., as part of Task Order # 0010 under USACE contract no. W912WJ-09-D-0001.

Sincerely,

The Woods Hole Group, Inc.

David R. Walsh
Project Manager/Coastal Scientist

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MACTEC

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May 17, 2010

Mark Anderson
USACE North Atlantic Division
New England District
696 Virginia Road
Concord, MA 01742-2751

Subject: July and October 2009 Groundwater Sampling Event
New Bedford Harbor Superfund Site
Sawyer Street Confined Pilot Study Disposal Facility (CDF)
MACTEC Project Number 3650090138

Dear Mr. Anderson:

On July 8, and October 13, 2009, MACTEC Engineering and Consulting, Inc. (MACTEC) performed groundwater sampling at the New Bedford Harbor Superfund Site, Sawyer Street Pilot Study Confined Disposal Facility (CDF) (Site). This letter summarizes the groundwater sampling and laboratory results from these 2009 Site sampling rounds. Please refer to Figure 1 for a Site Locus.

Groundwater Sampling:

MACTEC collected groundwater samples in accordance with the June 2009 MACTEC Field Sampling and Analysis Plan (SAP) and Health and Safety Plan. Groundwater samples were collected following United States Environmental Protection Agency (USEPA) Low Flow Groundwater procedures with documentation of water quality parameters. The water quality parameters included dissolved oxygen (D.O.), acidity or basicity (pH), turbidity, oxidation reduction potential (ORP), temperature, and specific conductivity. Please refer to Table 1 for a summary of the groundwater quality parameter readings collected from the July and October 2009 sampling rounds. Please refer to Appendix A for field data records from the groundwater sampling rounds.

MACTEC Engineering and Consulting, Inc.
107 Audubon Road, Suite 301 • Wakefield, MA 01880 • Phone: 781-245-6606 • Fax: 781-246-5060

Groundwater samples were collected from the following six monitoring wells at the Sawyer Street Pilot Study CDF:

- MW-1
- MW-3
- MW-4A
- MW-5
- MW-6
- MW-7A

Please refer to Figure 2 for a graphical depiction of the monitoring well locations.

MACTEC decontaminated sampling equipment between each monitoring well location and also used dedicated tubing and new bladders for each monitoring well location. Limited deviations from the SAP were encountered and included the following:

- Woods Hole Group (WHG) requested that MACTEC sample for Total Suspended Solids (TSS) in both July and October 2009;
- WHG submitted a field duplicate sample to ESS Laboratory in July 2009; and
- In July 2009 a grab groundwater sample was collected from MW-7A.

The purpose of collecting and submitting a duplicate sample to ESS Lab was for quality assurance (QA) of results produced by Alpha Analytical; this was accomplished through an independent inter-laboratory comparison of results. The grab groundwater sample collection from MW-7A in July 2009 was due to safety concerns surrounding lightning strikes which halted work for an hour and threatened to halt work again.

Laboratory Analysis:

Groundwater samples were submitted to Alpha Analytical, a state-certified laboratory, for Volatile Organic Compound (VOC) – USEPA Method 8260B, Polychlorinated biphenyl (PCB) Aroclor analysis – USEPA Method 8082, selected metals analysis (Cadmium, Chromium, Copper, and Lead) – USEPA Method 6020A, and TSS analysis – USEPA Method 2540D. MACTEC collected the groundwater samples using a bladder pump to support the VOCs analysis. Please note that twelve VOC analytes were not reported in the July 2009 analytical data report as they were not on the 2008 Battelle analyte list. Based on discussions with the USEPA Region I and the United State Army Corps of Engineers (USACE), these VOC analytes were included in the October 2009 analytical data report. Alpha Analytical determined that the July 2009 omission of these twelve compounds should not adversely affect the usability of these data for project decisions. For

further details of the VOC analyte list please refer to the first paragraph in the "Sensitivity & Reporting" section of the Data Validation Report for the July GW samples (L0909201), report dated October 12, 2009 and provided as Appendix B.

A field duplicate sample collected from MW-1 (identified as MW-01-070809) was submitted to ESS Laboratory for quality assurance (QA) during the July 2009 sampling round. To provide additional quality control (QC) information, separate field duplicates (DUP or REP), matrix spike (MS) and matrix spike duplicate (MSD) samples were collected and submitted for analysis at Alpha Analytical. In the July 2009 sampling round, these samples were collected from MW-1 and were identified as MW-01-070809-DUP, MW-01-070809-MS, MW-01-070809-MD and MW-01-070809-MSD. In the October 2009 sampling event, these QC samples were collected from MW-7A and were identified as MW-007A-101309REP, MW-007A-101309MS, and MW-007A-101309MSD.

MACTEC collected equipment blanks and submitted trip blanks from both the July and October 2009 sampling rounds. The equipment blanks were collected using de-ionized water run over the decontaminated sample pumps. The purpose of an equipment blank is to assess the effectiveness of decontamination procedures. A trip blank is used to verify the samples were not contaminated during transport to the laboratory.

Results:

Please refer to Table 2 for a summary of detected analytes (in micrograms per liter [µg/L]), which were limited to Aroclor 1248 and Copper. No analytes were detected above the Massachusetts Contingency Plan (MCP) GW-3 limits in either the July or October 2009 groundwater sampling rounds. No MCP GW-3 standard has been promulgated for copper. All other compounds analyzed for by Alpha Analytical were non-detects. The complete lab results for the July and October 2009 rounds are attached in Appendix B.

The reporting limits achieved by Alpha Analytical lab were below MCP GW-3 standards, where MCP GW-3 standards exist. No significant changes were noted between the July and October 2009 groundwater sampling rounds. TSS results (provided in milligrams per liter [mg/L]) are also reported in Table 2. Reproduction of results from field duplicate sampling in July and October 2009 groundwater sampling rounds were satisfactory. The equipment and trip blank data was also satisfactory with the exception of one result from July 2009. In the July 2009 results, the equipment blank exhibited acetone above the detection limit (detected at a concentration of 26.1 µg/L). Acetone is a common lab contaminant and unrelated to the Site. In 2010,

Alpha Analytical determined that the de-ionized water provided to WHG for this field work was contaminated with volatiles including acetone. Since the acetone was only detected in the equipment blank and not in any of the samples, the likely source of the acetone contamination was from the Alpha Analytical Laboratory's de-ionized water supplied to the WHG/MACTEC field sampling team. Since acetone was not found in any of the Sawyer Street samples and only in the equipment blank, there will be no impact or qualification to the Sawyer Street data quality for acetone.

The case narrative from Alpha Analytical noted that no significant deviations were encountered during the preparation or analysis of the groundwater samples. Sample Receipt, Container Information, and the Chain of Custody documents are located at the back of each of the lab reports provided in Appendix B. During the 2009 sampling season, one field replicate sample was collected and submitted by WHG to ESS Laboratories for QA of the samples analyzed by Alpha Analytical. MACTEC has not received, reviewed, nor incorporated the ESS Lab data package to this memo as the data were reported to the USACE project chemist for independent review.

Conclusions:

In July and October 2009, MACTEC collected groundwater samples at the Sawyer Street Pilot Study CDF. Groundwater samples were analyzed for VOCs, PCBs, selected metals (Cadmium, Chromium, Copper, and Lead) and TSS. Analytical results indicated that no analytes exceeded promulgated MCP GW-3 standards in the July or October 2009 sampling rounds.

Sincerely,
MACTEC Engineering and Consulting, Inc.

for Daron G. Kurkjian
Project Engineer *with permission*

David E. Heislein
Project Manager

Attachments:	Table 1	Summary of Groundwater Quality Parameters
	Table 2	Summary of Analytes
	Figure 1	Site Locus
	Figure 2	Site Plan
	Appendix A	Field Data Records
	Appendix B	Laboratory Analytical Reports

cc: US EPA Region 1
Woods Hole Group
MACTEC Project File [P:\3650090138 - WHG - NBH Monitoring Project\4.0 Project Deliverables\4.1 Reports\July and October 2009 GW Report 051710.docx]

TABLES

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Table 1: Summary of Groundwater Quality Parameters
Sawyer Street Confined Disposal Facility
New Bedford Harbord Superfund Site

Well ID	Time	Depth to Water (ft)	Flowrate (mL/min)	Temp (°C)	Spec Cond. (mS/cm)	pH	DO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal.)	Comments
July 8, 2009 Sampling Event											
MW-1	13:36	18.43	100	19.31	0.875	6.97	10.5	3.25	194.2	6.34	Clear
MW-3	15:47	15.85	100	16.34	2.467	6.93	0.46	4.8	-132.0	1.7	None
MW-4A	11:49	9.95	100	21.65	2.852	6.94	0.14	1.7	-252.8	2.3	None
MW-5	13:37	9.39	100	23.97	1.481	7.57	0.41	6.9	-131	1.7	None
MW-6	17:50	14.45	200	14.11	0.405	7.27	1.5	19.5	-31.3	N/A	Clear
MW-7A	16:02	10.68	250	14.39	0.671	6.67	0.62	1.81	82.3	2.64	Clear
October 13, 2009 Sampling Event											
MW-1	12:13	19.9	100	15.51	0.643	6.82	4.13	5.85	-11	4.4	None
MW-3	15:15	17.3	150	13.88	2.419	7.01	0.92	4.27	-146.8	4.56	None
MW-4A	10:45	11.71	100	14.46	1.896	7.05	2.01	4.26	-193.1	7.36	Transparent with slight yellow color
MW-5	12:30	10.73	150	14.35	0.652	7.70	0.45	4.91	-203.7	5.09	No color
MW-6	14:38	13.70	250	14.91	0.443	7.39	0.76	1.67	-143	2.91	None
MW-7A	10:46	10.60	100	15.20	0.814	6.64	3.38	0.43	79	1.86	None

Notes:
ft. = feet
°C = degrees centigrade
mL/,min = milliliters per minute
mg/L = milligrams per liter
NTU = Nephelometric Turbidity Units
mV = millivolts
gal. = gallons

Created by: DGK 01/22/2010
Checked by: CTM 01/22/2010

TABLE 2: SUMMARY OF ANALYTES
JULY AND OCTOBER 2009 GROUNDWATER SAMPLING
SAWYER STREET CDF
NEW BEDFORD HARBORD SUPERFUND SITE, MASSACHUSETTS

Parameter Name	Frequency of Detection	Range of Reporting Limits for Non-Detects	Average of All Samples	GW-3 MCP (ug/L)	MW-01-070809 7/8/2009	MW-01-070809-DUP 7/8/2009	MW-001-101309 10/13/2009	MW-03-070809 7/8/2009	MW-003-101309 10/13/2009
Volatile Organics (µg/L)									
1,1,1,2-Tetrachloroethane	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
1,1,1-Trichloroethane	0 / 14	2 : 2	1	20000	2 U	2 U	2 U	2 U	2 U
1,1,2,2-Tetrachloroethane	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethane	0 / 14	2 : 2	1	20000	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethene	0 / 14	2 : 2	1	30000	2 U	2 U	2 U	2 U	2 U
1,1-Dichloropropene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
1,2,3-Trichlorobenzene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
1,2,3-Trichloropropane	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
1,2,4-Trimethylbenzene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
1,2-Dibromo-3-chloropropane	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	0 / 14	2 : 2	1	2000	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethane	0 / 14	2 : 2	1	20000	2 U	2 U	2 U	2 U	2 U
1,2-Dichloropropane	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
1,3,5-Trimethylbenzene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
1,3-Dichloropropane	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
1,4-Dichlorobenzene	0 / 14	2 : 2	1	8000	2 U	2 U	2 U	2 U	2 U
1,4-Dioxane	0 / 7	100 : 100	50	50000			100 U		100 U
2,2-Dichloropropane	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
2-Butanone	0 / 14	5 : 5	2.5	50000	5 U	5 U	5 U	5 U	5 U
2-Chlorotoluene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
2-Hexanone	0 / 7	5 : 5	2.5				5 U		5 U
4-Chlorotoluene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
4-iso-Propyltoluene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
4-Methyl-2-pentanone	0 / 7	5 : 5	2.5	50000			5 U		5 U
Acetone	0 / 14	5 : 5	2.5	50000	5 U	5 U	5 U	5 U	5 U
Benzene	0 / 14	2 : 2	1	10000	2 U	2 U	2 U	2 U	2 U
Bromobenzene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
Bromochloromethane	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
Bromodichloromethane	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
Bromoform	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
Bromomethane	0 / 14	2 : 2	1	800	2 U	2 U	2 U	2 U	2 U
Butane, 2-methoxy-2-methyl-	0 / 7	2 : 2	1				2 U		2 U
Carbon disulfide	0 / 7	2 : 2	1				2 U		2 U
Carbon tetrachloride	0 / 14	2 : 2	1	5000	2 U	2 U	2 U	2 U	2 U
Chlorobenzene	0 / 14	2 : 2	1	1000	2 U	2 U	2 U	2 U	2 U
Chlorodibromomethane	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
Chloroethane	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
Chloroform	0 / 14	2 : 2	1	20000	2 U	2 U	2 U	2 U	2 U
Chloromethane	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
Cis-1,2-Dichloroethene	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
cis-1,3-Dichloropropene	0 / 7	2 : 2	1				2 U		2 U
Dibromomethane	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U

TABLE 2: SUMMARY OF ANALYTES
JULY AND OCTOBER 2009 GROUNDWATER SAMPLING
SAWYER STREET CDF
NEW BEDFORD HARBORD SUPERFUND SITE, MASSACHUSETTS

Parameter Name	Frequency of Detection	Range of Reporting Limits for Non-Detects	Average of All Samples	GW-3 MCP (ug/L)	MW-01-070809 7/8/2009	MW-01-070809-DUP 7/8/2009	MW-001-101309 10/13/2009	MW-03-070809 7/8/2009	MW-003-101309 10/13/2009
Dichlorodifluoromethane	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
Diethyl ether	0 / 7	2 : 2	1				2 U		2 U
Diisopropylether	0 / 7	2 : 2	1				2 U		2 U
Ethyl benzene	0 / 14	2 : 2	1	5000	2 U	2 U	2 U	2 U	2 U
Ethyl-t-Butyl Ether	0 / 7	2 : 2	1				2 U		2 U
Hexachlorobutadiene	0 / 14	2 : 2	1	3000	2 U	2 U	2 U	2 U	2 U
Isopropylbenzene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
Methyl Tertbutyl Ether	0 / 7	2 : 2	1	50000			2 U		2 U
Methylene chloride	0 / 14	5 : 5	2.5	50000	5 U	5 U	5 U	5 U	5 U
Naphthalene	0 / 14	2 : 2	1	20000	2 U	2 U	2 U	2 U	2 U
n-Butylbenzene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
Propylbenzene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
sec-Butylbenzene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
Styrene	0 / 14	2 : 2	1	6000	2 U	2 U	2 U	2 U	2 U
tert-Butylbenzene	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
Tetrachloroethene	0 / 14	2 : 2	1	30000	2 U	2 U	2 U	2 U	2 U
Tetrahydrofuran	0 / 7	5 : 5	2.5				5 U		5 U
Toluene	0 / 14	2 : 2	1	40000	2 U	2 U	2 U	2 U	2 U
trans-1,2-Dichloroethene	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
trans-1,3-Dichloropropene	0 / 7	2 : 2	1				2 U		2 U
Trichloroethene	0 / 14	2 : 2	1	5000	2 U	2 U	2 U	2 U	2 U
Trichlorofluoromethane	0 / 14	2 : 2	1		2 U	2 U	2 U	2 U	2 U
Vinyl chloride	0 / 14	2 : 2	1	50000	2 U	2 U	2 U	2 U	2 U
Xylene, m/p	0 / 14	4 : 4	2	5000	4 U	4 U	4 U	4 U	4 U
Xylene, o	0 / 14	2 : 2	1	5000	2 U	2 U	2 U	2 U	2 U
PCBs (µg/L)		0 : 0							
Aroclor-1016	0 / 14	0.02 : 0.0232	0.0104214		0.02 U	0.0232 U	0.022 U	0.021 U	0.02 U
Aroclor-1221	0 / 14	0.02 : 0.0232	0.0104214		0.02 U	0.0232 U	0.022 U	0.021 U	0.02 U
Aroclor-1232	0 / 14	0.02 : 0.0232	0.0104214		0.02 U	0.0232 U	0.022 U	0.021 U	0.02 U
Aroclor-1242	0 / 14	0.02 : 0.0232	0.0104214		0.02 U	0.0232 U	0.022 U	0.021 U	0.02 U
Aroclor-1248	2 / 14	0.02 : 0.0232	0.0162679		0.02 U	0.0232 U	0.022 U	0.052	0.02 U
Aroclor-1254	0 / 14	0.02 : 0.0232	0.0104214		0.02 U	0.0232 U	0.022 U	0.021 U	0.02 U
Aroclor-1260	0 / 14	0.02 : 0.0232	0.0104214		0.02 U	0.0232 U	0.022 U	0.021 U	0.02 U
Metals, Total (µg/L)		0 : 0							
Cadmium	0 / 14	2 : 2	1	4	2 U	2 U	2 U	2 U	2 U
Chromium	0 / 14	10 : 20	7.5	300	10 U	10 U	20 U	10 U	20 U
Copper	9 / 14	2 : 2	3.3642857		3.6	3.3	3.2	2 U	2 U
Lead	0 / 14	2 : 2	1	10	2 U	2 U	2 U	2 U	2 U
Inorganics (mg/L)									
Total Suspended Solids	11 / 14	1 : 1	7.3857143		4	3.4	2.8	27	33.5

µg/L - microgram per liter
mg/L - milligram per liter
U - not detected, value is the detection limit

TABLE 2: SUMMARY OF ANALYTES
JULY AND OCTOBER 2009 GROUNDWATER SAMPLING
SAWYER STREET CDF
NEW BEDFORD HARBORD SUPERFUND SITE, MASSACHUSETTS

Parameter Name	MW-04A-070809 7/8/2009		MW-004A-101309 10/13/2009		MW-05-070809 7/8/2009		MW-005-101309 10/13/2009		MW-06-070809 7/8/2009		MW-006-101309 10/13/2009		MW-07A-070809 7/8/2009		MW-007A-101309 10/13/2009		MW-007A-101309 REP 10/13/2009	
Volatile Organics (µg/L)																		
1,1,1,2-Tetrachloroethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,1,1-Trichloroethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,1,2,2-Tetrachloroethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,1,2-Trichloroethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,1-Dichloroethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,1-Dichloroethene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,1-Dichloropropene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2,3-Trichlorobenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2,3-Trichloropropane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2,4-Trichlorobenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2,4-Trimethylbenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dibromo-3-chloropropane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dibromoethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichlorobenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloroethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dichloropropane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,3,5-Trimethylbenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,3-Dichlorobenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,3-Dichloropropane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,4-Dichlorobenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,4-Dioxane			100	U			100	U			100	U			100	U	100	U
2,2-Dichloropropane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2-Butanone	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Chlorotoluene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2-Hexanone			5	U			5	U			5	U			5	U	5	U
4-Chlorotoluene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
4-iso-Propyltoluene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
4-Methyl-2-pentanone			5	U			5	U			5	U			5	U	5	U
Acetone	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Benzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromobenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromochloromethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromodichloromethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromoform	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Bromomethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Butane, 2-methoxy-2-methyl-			2	U			2	U			2	U			2	U	2	U
Carbon disulfide			2	U			2	U			2	U			2	U	2	U
Carbon tetrachloride	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Chlorobenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Chlorodibromomethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Chloroethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Chloroform	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Chloromethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Cis-1,2-Dichloroethene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
cis-1,3-Dichloropropene			2	U			2	U			2	U			2	U	2	U
Dibromomethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U

TABLE 2: SUMMARY OF ANALYTES
JULY AND OCTOBER 2009 GROUNDWATER SAMPLING
SAWYER STREET CDF
NEW BEDFORD HARBORD SUPERFUND SITE, MASSACHUSETTS

Parameter Name	MW-04A-070809 7/8/2009		MW-004A-101309 10/13/2009		MW-05-070809 7/8/2009		MW-005-101309 10/13/2009		MW-06-070809 7/8/2009		MW-006-101309 10/13/2009		MW-07A-070809 7/8/2009		MW-007A-101309 10/13/2009		MW-007A-101309 REP 10/13/2009	
Dichlorodifluoromethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Diethyl ether			2	U			2	U			2	U			2	U	2	U
Diisopropylether			2	U			2	U			2	U			2	U	2	U
Ethyl benzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Ethyl-t-Butyl Ether			2	U			2	U			2	U			2	U	2	U
Hexachlorobutadiene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Isopropylbenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Methyl Tertbutyl Ether			2	U			2	U			2	U			2	U	2	U
Methylene chloride	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Naphthalene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
n-Butylbenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Propylbenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
sec-Butylbenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Styrene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
tert-Butylbenzene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Tetrachloroethene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Tetrahydrofuran			5	U			5	U			5	U			5	U	5	U
Toluene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
trans-1,2-Dichloroethene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
trans-1,3-Dichloropropene			2	U			2	U			2	U			2	U	2	U
Trichloroethene	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Trichlorofluoromethane	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Vinyl chloride	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Xylene, m/p	4	U	4	U	4	U	4	U	4	U	4	U	4	U	4	U	4	U
Xylene, o	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
PCBs (µg/L)																		
Aroclor-1016	0.0213	U	0.02	U	0.0213	U	0.021	U	0.021	U	0.02	U	0.02	U	0.02	U	0.021	U
Aroclor-1221	0.0213	U	0.02	U	0.0213	U	0.021	U	0.021	U	0.02	U	0.02	U	0.02	U	0.021	U
Aroclor-1232	0.0213	U	0.02	U	0.0213	U	0.021	U	0.021	U	0.02	U	0.02	U	0.02	U	0.021	U
Aroclor-1242	0.0213	U	0.02	U	0.0213	U	0.021	U	0.021	U	0.02	U	0.02	U	0.02	U	0.021	U
Aroclor-1248	0.0213	U	0.02	U	0.051		0.021	U	0.021	U	0.02	U	0.02	U	0.02	U	0.021	U
Aroclor-1254	0.0213	U	0.02	U	0.0213	U	0.021	U	0.021	U	0.02	U	0.02	U	0.02	U	0.021	U
Aroclor-1260	0.0213	U	0.02	U	0.0213	U	0.021	U	0.021	U	0.02	U	0.02	U	0.02	U	0.021	U
Metals, Total (µg/L)																		
Cadmium	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Chromium	10	U	20	U	10	U	20	U	10	U	20	U	10	U	20	U	20	U
Copper	2	U	2.4		9		2	U	2.7		2	U	4.7		6.4		6.8	
Lead	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Inorganics (mg/L)																		
Total Suspended Solids	1		1.8		11.8		4		9.2		3.4		1	U	1	U	1	U

µg/L - microgram per liter
mg/L - milligram per liter
U - not detected, value is the detection limit

Prepared by / Date: KJC 03/01/10
Checked by / Date: DGK 03/01/10

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FIGURES

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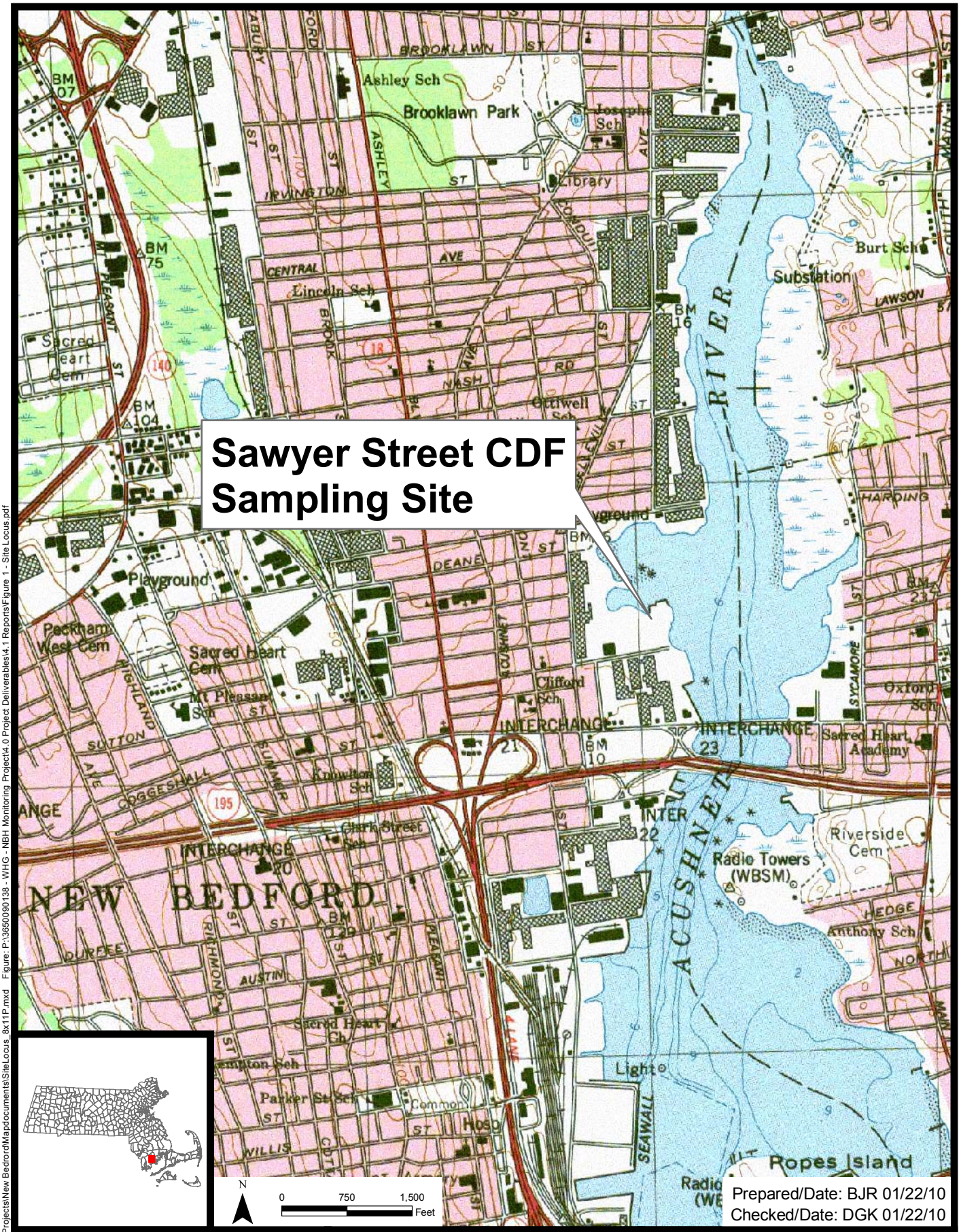


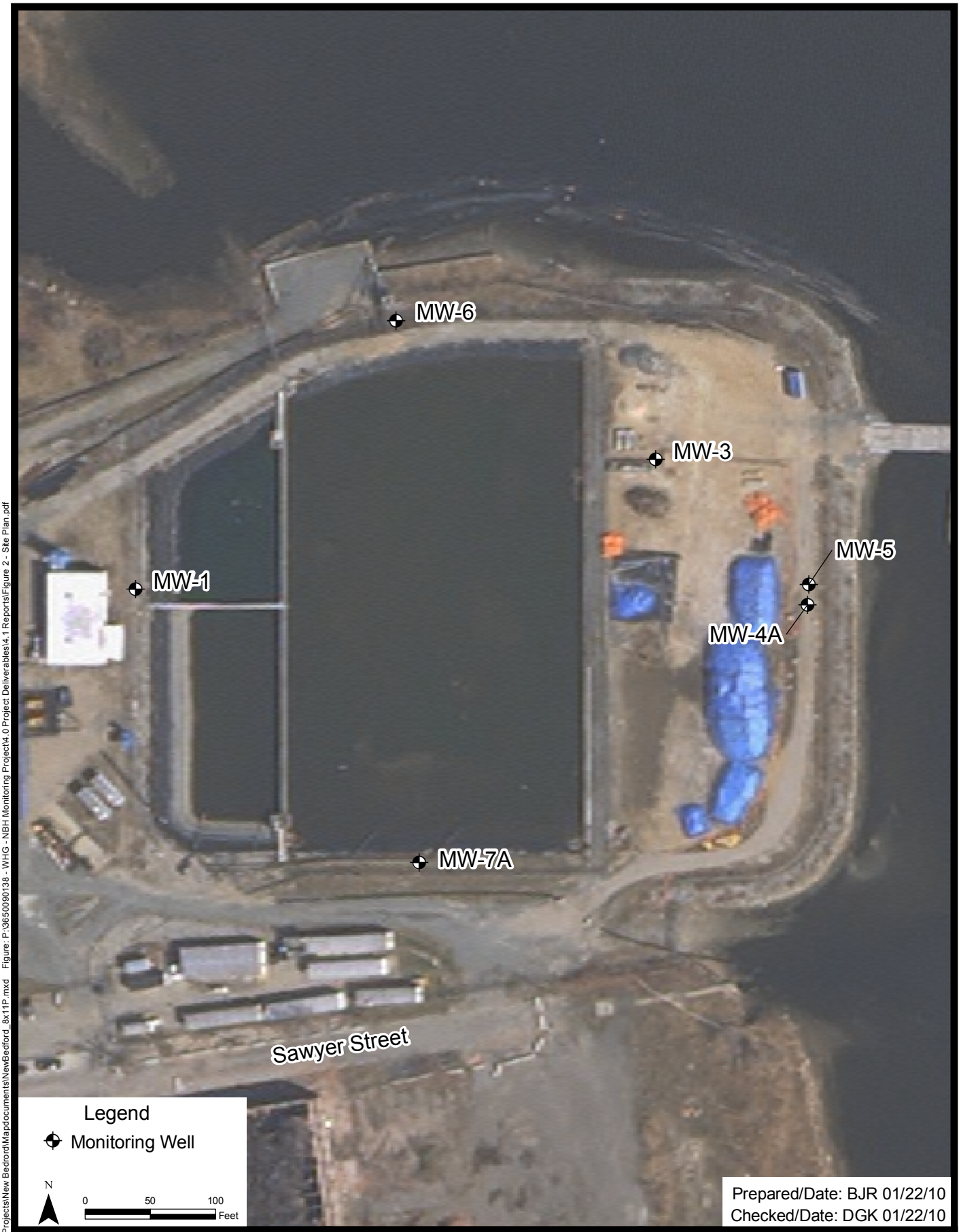
Prepared/Date: BJR 01/22/10
Checked/Date: DGK 01/22/10

Document: P:\GIS\Projects\New Bedford\Mapdocuments\SiteLocus_8x11P.mxd Figure: P:\3650090138 - WHG - NBH Monitoring Project\4.0 Project Deliverables\4.1 Reports\Figure 1 - Site Locus.pdf

Sawyer Street
Confined Disposal Facility
New Bedford Harbor Superfund Site
New Bedford, Massachusetts

MACTEC

Figure 1
Site Locus
3650-09-0138



Sawyer Street
Confined Disposal Facility
New Bedford Harbor Superfund Site
New Bedford, Massachusetts

MACTEC

Figure 2
Site Plan
3650-09-0138

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APPENDIX A

Field Data Records

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MACTEC ENGINEERING & CONSULTING, INC.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: New Bedford Harbor | 3650090138 | DATE: 7/8/2009

WELL ID: MW-01 | BOTTLE TIME: 13:40

START 13:00 END 15:00

SAMPLE ISIS ID: MW-01-070809

[X] QC SAMPLES COLLECTED
- DUPLICATE ID: MW-01-070809-DUP
- MS ID: MW-01-070809-MS
- MSD ID: MW-01-070809-MSD

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH: 23.93 FT (TOR)	HISTORICAL WELL DEPTH: N/A FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND): N/A FT	PROTECTIVE CASING / WELL DIFFERENCE: N/A FT
DEPTH TO WATER: 14.59 FT (TOR)	SCREEN LENGTH: N/A FT	WELL DIAMETER: 2 IN	WELL MATERIAL: PVC

HEIGHT OF WATER COLUMN: 9.34 FT x
- [X] 0.16 GAL/FT (2 IN)
- [ ] 0.65 GAL/FT (4 IN) = 1.49 GAL/VOL
- [ ] 1.5 GAL/FT (6 IN)

TOTAL VOLUME PURGED: 6.34 GAL

Total purge volume = (ml per min.) x time (min.) x 0.00026 gal/ml

AMBIENT AIR: 0 PPM | WELL MOUTH: 0 PPM

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (mL/min)	TEMP. (degrees C)	pH (units)	TURBIDITY (NTU)	SPEC. COND. (uS/cm)	D.O. (mg/L)	ORP (mV)	Comments
13:05	14.59	200							clear
13:15	16.67	200	17.55	6.99	6.07	0.856	7.56	213.9	
13:20	18.21	100	17.37	6.92	5.18	0.831	10.00	211.5	
13:25	18.20	100	17.40	6.93	5.65	0.833	9.8	209.8	
13:30	18.40	100	19.04	6.96	3.76	0.859	10.5	203.5	
13:33	18.42	100	19.28	6.97	3.64	0.866	10.5	195.8	
13:36	18.43	100	19.31	6.97	3.25	0.875	10.5	194.2	
13:40	Sample								

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING	
[ ]	[ ]	PERISTALTIC PUMP
[ ]	[ ]	SUBMERSIBLE PUMP
[X]	[X]	BLADDER PUMP
[ ]	[ ]	PVC/SILICON TUBING
[X]	[X]	TEFLON/SILICON TUBING
[ ]	[ ]	WATTERA
[ ]	[ ]	IN LINE FILTER
[ ]	[ ]	PRESS/VAC FILTER
[ ]	[ ]	_____

DECON FLUIDS USED
- [X] METHANOL
- [X] LIQUINOX
- [ ] POTABLE WATER
- [X] DEIONIZED WATER
- [ ] HEXANE
- [ ] NITRIC ACID
- [ ] NONE- Dedicated Tubing

WATER LEVEL EQUIPMENT USED
- [X] ELECTRIC COND. PROBE
- [ ] FLOAT ACTIVATED
- [ ] KECK INTERFACE PROBE
- [ ] _____

NUMBER OF FILTERS USED 0

ANALYTICAL PARAMETERS

		METHOD NUMBER	FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	VOC	8260B	N	HCL	3 x 40mL glass	[X]	___/___/___/___
[X]	Total metals (Ca,Cu,Cr,Pb)	6010B	N	HNO3	1 x 250mL poly	[X]	___/___/___/___
[X]	TSS	160.2	N	N/A	1 x 1L amber glass	[X]	___/___/___/___
[X]	PCB	8082	N	N/A	1 x 1L amber glass	[X]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___

NOTES AND SAMPLE OBSERVATIONS

Stabilization is considered achieved when three consecutive readings are taken at 3 to 5 min. intervals within the following limits:

Temp. - 3 %; Turbidity 10% > than 1 NTU; DO - 10%; Sp. Cond. - 3%; pH - 0.1 unit; ORP - 10 mV.

SAMPLED BY: Daron Kurkjian
CREATED BY: DLC 09/25/09
CHECKED BY: DGK 09/28/09

MACTEC ENGINEERING & CONSULTING, INC.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: New Bedford Harbor | 3650090138 | DATE: 7/8/2009

WELL ID: MW-03 | START 15:03 END 16:10 | BOTTLE TIME: 15:50

SAMPLE ISIS ID: MW-03-070809

[ ] QC SAMPLES COLLECTED — DUPLICATE ID: ; MS ID: ; MSD ID:

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	23.9 FT (TOR)	HISTORICAL WELL DEPTH	N/A FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	N/A FT	PROTECTIVE CASING / WELL DIFFERENCE	N/A FT
DEPTH TO WATER	13.93 FT (TOR)	SCREEN LENGTH	N/A FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC

HEIGHT OF WATER COLUMN: 9.97 FT x [X] 0.16 GAL/FT (2 IN) [ ] 0.65 GAL/FT (4 IN) [ ] 1.5 GAL/FT (6 IN) = 1.6 GAL/VOL

TOTAL VOLUME PURGED: 1.7 GAL

Total purge volume = (ml per min.) x time (min.) x 0.00026 gal/ml

AMBIENT AIR: 0 PPM

WELL MOUTH: 0 PPM

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (mL/min)	TEMP. (degrees C)	pH (units)	TURBIDITY (NTU)	SPEC. COND. (uS/cm)	D.O. (mg/L)	ORP (mV)	Comments
15:14	14.65	100	18.03	6.70	11.7	2263	2.49	-83.2	
15:17	14.67	100	17.25	6.70	11.4	2285	1.81	-89.1	
15:20	15.25	100	16.59	6.70	9.5	2284	2.09	-94.6	
15:23	15.45	100	16.29	6.70	7.2	2281	1.63	-91.0	
15:26	15.65	100	15.98	6.71	5.6	2287	1.15	-93.1	
15:29	15.78	100	15.88	6.73	4.8	2301	0.82	-97.9	
15:32	15.80	100	16.34	6.81	5.3	2323	0.66	-102.0	
15:35	15.85	100	16.47	6.85	2.9	2359	0.62	-107.0	
15:38	15.85	100	16.04	6.85	5.1	2341	0.55	-103.0	
15:41	15.85	100	15.99	6.86	5.3	2458	0.48	-122.0	
15:44	15.85	100	16.23	6.91	4.9	2460	0.49	-126.0	
15:47	15.85	100	16.34	6.93	4.8	2467	0.46	-132.0	

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING	
[ ]	[ ]	PERISTALTIC PUMP
[ ]	[ ]	SUBMERSIBLE PUMP
[X]	[X]	BLADDER PUMP
[ ]	[ ]	PVC/SILICON TUBING
[X]	[X]	TEFLON/SILICON TUBING
[ ]	[ ]	WATTERA
[ ]	[ ]	IN LINE FILTER
[ ]	[ ]	PRESS/VAC FILTER
[ ]	[ ]	_____

DECON FLUIDS USED
- [X] METHANOL
- [X] LIQUINOX
- [ ] POTABLE WATER
- [X] DEIONIZED WATER
- [ ] HEXANE
- [ ] NITRIC ACID
- [ ] NONE- Dedicated Tubing

WATER LEVEL EQUIPMENT USED
- [X] ELECTRIC COND. PROBE
- [ ] FLOAT ACTIVATED
- [ ] KECK INTERFACE PROBE
- [ ] _____

NUMBER OF FILTERS USED: 0

ANALYTICAL PARAMETERS

		METHOD NUMBER	FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	VOC	8260B	N	HCL	3 x 40mL glass	[X]	___/___/___/___
[X]	Total metals (Ca,Cu,Cr,Pb)	6010B	N	HNO3	1 x 250mL poly	[X]	___/___/___/___
[X]	TSS	160.2	N	N/A	1 x 1L amber glass	[X]	___/___/___/___
[X]	PCB	8082	N	N/A	1 x 1L amber glass	[X]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___

NOTES AND SAMPLE OBSERVATIONS

Stabilization is considered achieved when three consecutive readings are taken at 3 to 5 min. intervals within the following limits:

Temp. - 3 %; Turbidity 10% > than 1 NTU; DO - 10%; Sp. Cond. - 3%; pH - 0.1 unit; ORP - 10 mV.

SIGNATURE: Mark Maggiore
CREATED BY: DLC 09/25/09
CHECKED BY: DGK 09/28/09

MACTEC ENGINEERING & CONSULTING, INC.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: New Bedford Harbor | 3650090138 | DATE: 7/8/2009

WELL ID: MW-4A | START 11:10 END 12:40 | BOTTLE TIME: 11:50

SAMPLE ISIS ID: MW-4A-070809

[ ] QC SAMPLES COLLECTED — DUPLICATE ID: ; MS ID: ; MSD ID:

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH	25.7 FT (TOR)	HISTORICAL WELL DEPTH	N/A FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND)	N/A FT	PROTECTIVE CASING / WELL DIFFERENCE	N/A FT
DEPTH TO WATER	8.71 FT (TOR)	SCREEN LENGTH	N/A FT	WELL DIAMETER	2 IN	WELL MATERIAL	PVC

HEIGHT OF WATER COLUMN: 16.99 FT x [X] 0.16 GAL/FT (2 IN) [ ] 0.65 GAL/FT (4 IN) = 2.7 GAL/VOL [ ] 1.5 GAL/FT (6 IN)

TOTAL VOLUME PURGED: 2.3 GAL

Total purge volume = (ml per min.) x time (min.) x 0.00026 gal/ml

AMBIENT AIR: 0 PPM | WELL MOUTH: 0 PPM

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (mL/min)	TEMP. (degrees C)	pH (units)	TURBIDITY (NTU)	SPEC. COND. (uS/cm)	D.O. (mg/L)	ORP (mV)	Comments
11:10	Pump on								
11:15	9.61	100	14.98	6.93	6.3	3.262	1.37	-179.9	
11:20	9.70	100	16.21	6.99	4.4	3.055	0.70	-211.6	
11:25	9.80	100	16.99	7.01	4.1	2.624	0.50	-216.7	
11:28	9.95	100	17.40	7.02	3.4	3.007	0.46	-218.1	
11:31	9.95	100	18.41	7.08	2.9	2.954	0.39	-225.6	
11:34	9.95	100	19.29	7.06	2.6	2.92	0.28	-223.0	
11:37	9.95	100	20.38	7.01	2.0	2.892	0.21	-231.0	
11:40	9.95	100	21.05	6.99	2.9	2.877	0.18	-248.0	
11:43	9.95	100	21.48	6.98	1.8	2.876	0.16	-247.0	
11:46	9.95	100	21.22	6.97	2.1	2.856	0.14	-245.6	
11:49	9.95	100	21.65	6.94	1.7	2.852	0.14	-252.8	

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING	
		PERISTALTIC PUMP
		SUBMERSIBLE PUMP
X	X	BLADDER PUMP
		PVC/SILICON TUBING
X	X	TEFLON/SILICON TUBING
		WATTERA
		IN LINE FILTER
		PRESS/VAC FILTER
		_____

DECON FLUIDS USED	
X	METHANOL
X	LIQUINOX
	POTABLE WATER
X	DEIONIZED WATER
	HEXANE
	NITRIC ACID
	NONE- Dedicated Tubing

WATER LEVEL EQUIPMENT USED	
X	ELECTRIC COND. PROBE
	FLOAT ACTIVATED
	KECK INTERFACE PROBE
	_____

NUMBER OF FILTERS USED 0

ANALYTICAL PARAMETERS

		METHOD NUMBER	FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	VOC	8260B	N	HCL	3 x 40mL glass	x	___/___/___/___
X	Total metals (Ca,Cu,Cr,Pb)	6010B	N	HNO3	1 x 250mL poly	x	___/___/___/___
X	TSS	160.2	N	N/A	1 x 1L amber glass	x	___/___/___/___
X	PCB	8082	N	N/A	1 x 1L amber glass	x	___/___/___/___
							___/___/___/___
							___/___/___/___
							___/___/___/___
							___/___/___/___

NOTES AND SAMPLE OBSERVATIONS

Stabilization is considered achieved when three consecutive readings are taken at 3 to 5 min. intervals within the following limits:

Temp. - 3 %; Turbidity 10% > than 1 NTU; DO - 10%; Sp. Cond. - 3%; pH - 0.1 unit; ORP - 10 mV.

SIGNATURE: Mark Maggiore
CREATED BY: DLC 09/25/09
CHECKED BY: DGK 09/28/09

MACTEC ENGINEERING & CONSULTING, INC.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: New Bedford Harbor | 3650090138 | DATE: 7/8/2009

WELL ID: MW-05 | START 13:00 END 14:05 | BOTTLE TIME: 13:40

SAMPLE ISIS ID: MW-05-070809

[ ] QC SAMPLES COLLECTED — DUPLICATE ID: ; MS ID: ; MSD ID:

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH: 18.35 FT (TOR)	HISTORICAL WELL DEPTH: N/A FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND): N/A FT	PROTECTIVE CASING / WELL DIFFERENCE: N/A FT
DEPTH TO WATER: 7.39 FT (TOR)	SCREEN LENGTH: N/A FT	WELL DIAMETER: 2 IN	WELL MATERIAL: PVC

HEIGHT OF WATER COLUMN: 10.96 FT x [X] 0.16 GAL/FT (2 IN) [ ] 0.65 GAL/FT (4 IN) = 1.75 GAL/VOL [ ] 1.5 GAL/FT (6 IN)

TOTAL VOLUME PURGED: 1.7 GAL

Total purge volume = (ml per min.) x time (min.) x 0.00026 gal/ml

AMBIENT AIR: 0 PPM

WELL MOUTH: 0 PPM

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (mL/min)	TEMP. (degrees C)	pH (units)	TURBIDITY (NTU)	SPEC. COND. (uS/cm)	D.O. (mg/L)	ORP (mV)	Comments
13:07	8.69	100	18.06	7.75	6.3	1.515	1.88	-131	
13:10	9.00	100	18.63	7.78	6.6	1.514	1.22	-137	
13:13	9.13	100	18.97	7.75	6.0	1.509	0.85	-140	
13:16	9.39	100	19.15	7.73	6.1	1.482	0.47	-144	Changed batteries for air compressor
13:25	9.39	100	21.68	7.55	6.3	1.465	0.42	-134	
13:28	9.39	100	22.60	7.56	6.6	1.465	0.41	-134	
13:31	9.39	100	23.56	7.58	6.5	1.465	0.42	-137	
13:34	9.39	100	23.92	7.57	6.6	1.485	0.42	-140	
13:37	9.39	100	23.97	7.57	6.9	1.481	0.41	-131	
13:40	Sample Well								

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING		DECON FLUIDS USED		WATER LEVEL EQUIPMENT USED	
[ ]	[ ]	PERISTALTIC PUMP	[X]	METHANOL	[X]	ELECTRIC COND. PROBE
[ ]	[ ]	SUBMERSIBLE PUMP	[X]	LIQUINOX	[ ]	FLOAT ACTIVATED
[X]	[X]	BLADDER PUMP	[ ]	POTABLE WATER	[ ]	KECK INTERFACE PROBE
[ ]	[ ]	PVC/SILICON TUBING	[X]	DEIONIZED WATER	[ ]	_____
[X]	[X]	TEFLON/SILICON TUBING	[ ]	HEXANE		
[ ]	[ ]	WATTERA	[ ]	NITRIC ACID		
[ ]	[ ]	IN LINE FILTER	[ ]	NONE- Dedicated Tubing		
[ ]	[ ]	PRESS/VAC FILTER				
[ ]	[ ]	_____				

NUMBER OF FILTERS USED: 0

ANALYTICAL PARAMETERS

		METHOD NUMBER	FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	VOC	8260B	N	HCL	3 x 40mL glass	[X]	___/___/___/___
[X]	Total metals (Ca,Cu,Cr,Pb)	6010B	N	HNO3	1 x 250mL poly	[X]	___/___/___/___
[X]	TSS	160.2	N	N/A	1 x 1L amber glass	[X]	___/___/___/___
[X]	PCB	8082	N	N/A	1 x 1L amber glass	[X]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___

NOTES AND SAMPLE OBSERVATIONS

Stabilization is considered achieved when three consecutive readings are taken at 3 to 5 min. intervals within the following limits:
Temp. - 3 %; Turbidity 10% > than 1 NTU; DO - 10%; Sp. Cond. - 3%; pH - 0.1 unit; ORP - 10 mV.

SIGNATURE: Mark Maggiore
CREATED BY: DLC 09/25/09
CHECKED BY: DGK 09/28/09

MACTEC ENGINEERING & CONSULTING, INC.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: New Bedford Harbor | 3650090138 | DATE: 7/8/2009

WELL ID: MW-6 | BOTTLE TIME: 18:00

START 17:45 END 18:00

SAMPLE ISIS ID: MW-6-070809

[ ] QC SAMPLES COLLECTED — DUPLICATE ID: ; MS ID: ; MSD ID:

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH: 19.48 FT (TOR)	HISTORICAL WELL DEPTH: --- FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND): --- FT	PROTECTIVE CASING / WELL DIFFERENCE: N/A FT
DEPTH TO WATER: 13.28 FT (TOR)	SCREEN LENGTH: --- FT	WELL DIAMETER: --- IN	WELL MATERIAL: PVC

HEIGHT OF WATER COLUMN: 6.2 FT x [X] 0.16 GAL/FT (2 IN) [ ] 0.65 GAL/FT (4 IN) = 0.99 GAL/VOL [ ] 1.5 GAL/FT (6 IN)

TOTAL VOLUME PURGED: --- GAL

Total purge volume = (ml per min.) x time (min.) x 0.00026 gal/ml

AMBIENT AIR: 0 PPM

WELL MOUTH: 0 PPM

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (mL/min)	TEMP. (degrees C)	pH (units)	TURBIDITY (NTU)	SPEC. COND. (uS/cm)	D.O. (mg/L)	ORP (mV)	Comments
17:45	13.45	200	14.38	7.34	27.9	0.410	2.43	14.2	Clear
17:50	14.45	200	14.11	7.27	19.5	0.405	1.50	-31.3	
17:53	14.50	200							Thunderstorm approaching
18:00	Sample								Collected grab sample

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING	
[ ]	[ ]	PERISTALTIC PUMP
[ ]	[ ]	SUBMERSIBLE PUMP
[X]	[X]	BLADDER PUMP
[ ]	[ ]	PVC/SILICON TUBING
[X]	[X]	TEFLON/SILICON TUBING
[ ]	[ ]	WATTERA
[ ]	[ ]	IN LINE FILTER
[ ]	[ ]	PRESS/VAC FILTER
[ ]	[ ]	_____

DECON FLUIDS USED	
[X]	METHANOL
[X]	LIQUINOX
[ ]	POTABLE WATER
[X]	DEIONIZED WATER
[ ]	HEXANE
[ ]	NITRIC ACID
[ ]	NONE- Dedicated Tubing

WATER LEVEL EQUIPMENT USED	
[X]	ELECTRIC COND. PROBE
[ ]	FLOAT ACTIVATED
[ ]	KECK INTERFACE PROBE
[ ]	_____

NUMBER OF FILTERS USED: 0

ANALYTICAL PARAMETERS

		METHOD NUMBER	FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	VOC	8260B	N	HCL	3 x 40mL glass	[X]	___/___/___/___
[X]	Total metals (Ca,Cu,Cr,Pb)	6010B	N	HNO3	1 x 250mL poly	[X]	___/___/___/___
[X]	TSS	160.2	N	N/A	1 x 1L amber glass	[X]	___/___/___/___
[X]	PCB	8082	N	N/A	1 x 1L amber glass	[X]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___

NOTES AND SAMPLE OBSERVATIONS

Stabilization is considered achieved when three consecutive readings are taken at 3 to 5 min. intervals within the following limits:

Temp. - 3 %; Turbidity 10% > than 1 NTU; DO - 10%; Sp. Cond. - 3%; pH - 0.1 unit; ORP - 10 mV.

SIGNATURE: Daron Kurkjian

CREATED BY: DLC 09/25/09

CHECKED BY: DGK 09/28/09

MACTEC ENGINEERING & CONSULTING, INC.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: New Bedford Harbor | 3650090138 | DATE: 7/8/2009

WELL ID: MW-7A | BOTTLE TIME: 16:05

START 15:40 END 16:20

SAMPLE ISIS ID: MW-7A-070809

[ ] QC SAMPLES COLLECTED — DUPLICATE ID: ; MS ID: ; MSD ID:

WATER LEVEL / WELL DATA

MEASURED WELL DEPTH: 15.03 FT (TOR)	HISTORICAL WELL DEPTH: --- FT (TOR)	PROTECTIVE CASING STICKUP (FROM GROUND): N/A FT	PROTECTIVE CASING / WELL DIFFERENCE: N/A FT
DEPTH TO WATER: 10.09 FT (TOR)	SCREEN LENGTH: N/A FT	WELL DIAMETER: --- IN	WELL MATERIAL: PVC

HEIGHT OF WATER COLUMN: 4.94 FT x [X] 0.16 GAL/FT (2 IN) / [ ] 0.65 GAL/FT (4 IN) / [ ] 1.5 GAL/FT (6 IN) = 0.79 GAL/VOL

TOTAL VOLUME PURGED: 2.64 GAL

Total purge volume = (ml per min.) x time (min.) x 0.00026 gal/ml

AMBIENT AIR: 0 PPM

WELL MOUTH: 0 PPM

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (mL/min)	TEMP. (degrees C)	pH (units)	TURBIDITY (NTU)	SPEC. COND. (uS/cm)	D.O. (mg/L)	ORP (mV)	Comments
15:40	10.25	250	16.57	6.84	29.3	0.656	4.16	146.5	clear
15:45	10.41	250	14.64	6.72	7.73	0.612	2.05	147.8	
15:50	10.61	250	14.65	6.70	4.47	0.633	1.21	120.8	
15:53	10.62	250	14.62	6.69	3.80	0.644	1.01	95.3	
15:56	10.64	250	14.57	6.68	2.28	0.652	0.70	92.3	
15:59	10.65	250	14.41	6.66	1.54	0.670	0.68	85.8	
16:02	10.68	250	14.39	6.67	1.81	0.671	0.62	82.3	
16:05	Sample								

EQUIPMENT DOCUMENTATION

PURGING	SAMPLING	
[ ]	[ ]	PERISTALTIC PUMP
[ ]	[ ]	SUBMERSIBLE PUMP
[X]	[X]	BLADDER PUMP
[ ]	[ ]	PVC/SILICON TUBING
[X]	[X]	TEFLON/SILICON TUBING
[ ]	[ ]	WATTERA
[ ]	[ ]	IN LINE FILTER
[ ]	[ ]	PRESS/VAC FILTER
[ ]	[ ]	_____

DECON FLUIDS USED
- [X] METHANOL
- [X] LIQUINOX
- [ ] POTABLE WATER
- [X] DEIONIZED WATER
- [ ] HEXANE
- [ ] NITRIC ACID
- [ ] NONE- Dedicated Tubing

WATER LEVEL EQUIPMENT USED
- [X] ELECTRIC COND. PROBE
- [ ] FLOAT ACTIVATED
- [ ] KECK INTERFACE PROBE
- [ ] _____

NUMBER OF FILTERS USED 0

ANALYTICAL PARAMETERS

		METHOD NUMBER	FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[X]	VOC	8260B	N	HCL	3 x 40mL glass	[X]	___/___/___/___
[X]	Total metals (Ca,Cu,Cr,Pb)	6010B	N	HNO3	1 x 250mL poly	[X]	___/___/___/___
[X]	TSS	160.2	N	N/A	1 x 1L amber glass	[X]	___/___/___/___
[X]	PCB	8082	N	N/A	1 x 1L amber glass	[X]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___
[ ]						[ ]	___/___/___/___

NOTES AND SAMPLE OBSERVATIONS

Stabilization is considered achieved when three consecutive readings are taken at 3 to 5 min. intervals within the following limits:

Temp. - 3 %; Turbidity 10% > than 1 NTU; DO - 10%; Sp. Cond. - 3%; pH - 0.1 unit; ORP - 10 mV.

SIGNATURE: Daron Kurkjian
CREATED BY: DLC 09/25/09
CHECKED BY: DGK 09/28/09

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**New Bedford Harbor Superfund Site**	EVENT NAME	Sawyer Street CDF 10/09	JOB NUMBER	**3650090138**
LOCATION ID	MW-1	FIELD SAMPLE ID	MW-001-101309	CLIENT	**Woods Hole Group**
ACTIVITY	START 11:51 END 12:30	SAMPLE TIME	12:15	DATE	10/13/2009

WATER LEVEL / WELL INFORMATION

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF CASING

INITIAL DEPTH TO WATER	14.95 feet		
FINAL DEPTH TO WATER	19.9 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	See survey feet
HISTORICAL WELL DEPTH	23.95 feet	CASING / WELL DIFFERENCE	See survey feet
SCREEN LENGTH	- feet	WELL DIAMETER	2 inches

PUMP SETTINGS

PRESSURE TO PUMP	15 psi
REFILL SETTING	10 sec
DISCHARGE SETTING	5 sec

PID READINGS

PID MODEL	-
PID WELL MOUTH	- ppmv
PID AMBIENT AIR	- ppmv

WELL DIAMETER FACTORS / VOLUME INFORMATION

DIAMETER (inches)	1.0	1.5	2.0	4.0	6.0
GALLONS/FOOT	0.041	0.092	0.163	0.651	1.470

TOTAL VOL. PURGED: 0.44 gal

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

FEET OF WATER IN WELL	9 feet	ONE WELL VOLUME	1.47 gal	TWO WELL VOLUMES	2.93 gal	THREE WELL VOLUMES	4.40 gal

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
11:58	16.80	100	14.92	0.802	6.87	2.75	18.90	-57	22	
12:01	17.41	100	15.21	0.786	6.81	1.99	2.77	-43	22	
12:04	18.01	100	15.41	0.753	6.79	2.09	8.06	-30	22	
12:07	18.7	100	15.61	0.693	6.78	2.52	10.20	-16	22	
12:10	19.5	100	15.66	0.650	6.75	2.98	9.01	-8	22	
12:13	19.9	100	15.51	0.643	6.82	4.13	5.85	-11	22	
12:15	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] QED SAMPLE PRO (1-3/4")
- [ ] PERISTALTIC
- [ ] OTHER _____

TYPE OF TUBING
- [X] LOW DENSITY POLYETHYLENE (Teflon-lined)
- [ ] OTHER Teflon Lined HDPE

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[X] VOCs	SW 846 Method 8260B MCP	HCL / 4 DEG. C	3 X 40 ML	[X]	____/____/____
[X] Total metals (Ca,Cu,Cr,Pb)	SW846 6010B MCP	4 DEG. C	1 X 500 ml Plastic	[X]	____
[X] TSS	160.2	4 DEG. C	1 X 1L Plastic	[X]	____
[X] PCB	8082	4 DEG. C	2 X 1L AMBER GLASS	[X]	____
[ ]					____
[ ]					____
[ ]					____

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

MISC. OBSERVATIONS

Well does not recharge, collected sample prior to well going dry.

QC INFORMATION

SAMPLED BY: Mark Maggiore

FIELD FORM PREP. BY: DGK 10/16/09

FIELD FORM CHECK BY: CTM 10/16/09

NOTES:

1. Purging should not exceed **5 well volumes**
2. Stabilization is considered to be achieved when three consecutive readings are taken at 3 to 5 minute intervals are within the following limits:
turbidity (10% for values greater than 1 NTU), specific conductivity (3%), temperature (1˚C), pH (± 0.1units), dissolved oxygen (10%), ORP (10 mV)

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**New Bedford Harbor Superfund Site**	EVENT NAME	Sawyer Street CDF 10/09	JOB NUMBER	**3650090138**
LOCATION ID	MW-3	FIELD SAMPLE ID	MW-003-101309	CLIENT	**Woods Hole Group**
ACTIVITY	START 14:30 END 15:30	SAMPLE TIME	15:20	DATE	10/13/2009

WATER LEVEL / WELL INFORMATION

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF CASING

INITIAL DEPTH TO WATER	14.68 feet		
FINAL DEPTH TO WATER	17.51 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	See survey feet
HISTORICAL WELL DEPTH	24 feet	CASING / WELL DIFFERENCE	See survey feet
SCREEN LENGTH	- feet	WELL DIAMETER	2 inches

PUMP SETTINGS

PRESSURE TO PUMP	30 psi
REFILL SETTING	10 sec
DISCHARGE SETTING	5 sec

PID READINGS

PID MODEL	-
PID WELL MOUTH	- ppmv
PID AMBIENT AIR	- ppmv

WELL DIAMETER FACTORS / VOLUME INFORMATION

DIAMETER (inches)	1.0	1.5	2.0	4.0	6.0
GALLONS/FOOT	0.041	0.092	0.163	0.651	1.470

TOTAL VOL. PURGED 2.73 gal

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

FEET OF WATER IN WELL	9.32 feet	ONE WELL VOLUME	1.52 gal	TWO WELL VOLUMES	3.04 gal	THREE WELL VOLUMES	4.56 gal

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
14:20	17.75	300	13.96	1.561	7.33	3.46	20.70	-83.4	21	battery change
14:25	17.11	150	13.88	1.664	6.97	2.29	11.40	-95.5	21	
14:30	17.13	150	13.72	2.209	6.94	1.44	6.00	-131.3	21	
14:35	17.13	150	13.74	2.196	6.96	1.31	7.90	134.2	21	
14:40	17.13	150	13.78	2.166	6.97	1.37	5.69	-134.3	21	
14:45	17.14	150	13.80	2.155	6.98	1.35	6.28	-134.1	21	
14:50	17.20	150	13.87	2.191	6.99	1.21	5.19	-134.2	21	
14:55	17.25	150	13.86	2.239	6.98	1.03	3.89	-134.4	21	
15:00	17.27	150	13.81	2.363	7.00	0.99	4.14	-146.3	21	
15:05	17.29	150	13.89	2.400	6.99	0.97	4.12	-149.1	21	
15:10	17.30	150	13.86	2.412	7.02	0.93	4.31	-147.1	21	
15:15	17.30	150	13.88	2.419	7.01	0.92	4.27	-146.8	21	
15:20	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] QED SAMPLE PRO (1-3/4")
- [ ] PERISTALTIC
- [ ] OTHER _____

TYPE OF TUBING
- [X] LOW DENSITY POLYETHYLENE (Teflon-lined)
- [ ] OTHER Teflon Lined HDPE

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[X] VOCs	SW 846 Method 8260B MCP	HCL / 4 DEG. C	3 X 40 ML	[X]	_____/_____/_____
[X] Total metals (Ca,Cu,Cr,Pb)	SW846 6010B MCP	4 DEG. C	1 X 500 ml Plastic	[X]	_____
[X] TSS	160.2	4 DEG. C	1 X 1L Plastic	[X]	_____
[X] PCB	8082	4 DEG. C	2 X 1L AMBER GLASS	[X]	_____
[ ]					_____
[ ]					_____
[ ]					_____

PURGE OBSERVATIONS _____

PURGE WATER CONTAINERIZED YES NO _____

MISC. OBSERVATIONS

QC INFORMATION

SAMPLED BY: Daron Kurkjian

FIELD FORM PREP. BY: DGk 10/16/09

FIELD FORM CHECK BY: CTM 10/16/09

NOTES:

1. Purging should not exceed **5 well volumes**
2. Stabilization is considered to be achieved when three consecutive readings are taken at 3 to 5 minute intervals are within the following limits:
turbidity (10% for values greater than 1 NTU), specific conductivity (3%), temperature (1˚C), pH (± 0.1units), dissolved oxygen (10%), ORP (10 mV)

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**New Bedford Harbor Superfund Site**	EVENT NAME	Sawyer Street CDF 10/09	JOB NUMBER	**3650090138**
LOCATION ID	MW-4A	FIELD SAMPLE ID	MW-004A-101309	CLIENT	**Woods Hole Group**
ACTIVITY	START 9:50 END 11:15	SAMPLE TIME	10:50	DATE	10/13/2009

WATER LEVEL / WELL INFORMATION

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF CASING

INITIAL DEPTH TO WATER	8.59 feet		
FINAL DEPTH TO WATER	11.71 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	See survey feet
HISTORICAL WELL DEPTH	23.65 feet	CASING / WELL DIFFERENCE	See survey feet
SCREEN LENGTH	- feet	WELL DIAMETER	2 inches

PUMP SETTINGS

PRESSURE TO PUMP	30 psi
REFILL SETTING	10 sec
DISCHARGE SETTING	5 sec

PID READINGS

PID MODEL	-
PID WELL MOUTH	- ppmv
PID AMBIENT AIR	- ppmv

WELL DIAMETER FACTORS / VOLUME INFORMATION

DIAMETER (inches)	1.0	1.5	2.0	4.0	6.0
GALLONS/FOOT	0.041	0.092	0.163	0.651	1.470

TOTAL VOL. PURGED 1.82 gal

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

FEET OF WATER IN WELL	15.06 feet	ONE WELL VOLUME	2.45 gal	TWO WELL VOLUMES	4.91 gal	THREE WELL VOLUMES	7.36 gal

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
10:05	10.91	300	14.47	2.436	6.77	4.61	4.03	-123.1	18	transparent, with slight yellow
10:10	11.56	200	14.49	2.216	6.80	3.87	3.68	-142.5	18	color
10:15	11.58	100	14.43	2.149	6.84	3.42	3.89	-159.1	18	
10:20	11.58	100	14.46	2.127	6.86	3.28	3.77	-163.5	18	
10:25	11.72	100	14.44	1.966	6.96	2.60	3.51	-180.3	18	
10:30	11.72	100	14.47	1.937	6.88	2.44	4.18	-181.6	18	
10:35	11.71	100	14.47	1.927	7.01	2.27	4.10	-183.4	18	
10:40	11.71	100	14.46	1.918	7.03	2.07	4.32	-186.9	18	
10:45	11.71	100	14.46	1.896	7.05	2.01	4.26	-193.1	18	
10:50	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] QED SAMPLE PRO (1-3/4")
- [ ] PERISTALTIC
- [ ] OTHER _____

TYPE OF TUBING
- [X] LOW DENSITY POLYETHYLENE (Teflon-lined)
- [ ] OTHER Teflon Lined HDPE

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[X] VOCs	SW 846 Method 8260B MCP	HCL / 4 DEG. C	3 X 40 ML	[X]	_____/_____/_____
[X] Total metals (Ca,Cu,Cr,Pb)	SW846 6010B MCP	4 DEG. C	1 X 500 ml Plastic	[X]	_____
[X] TSS	160.2	4 DEG. C	1 X 1L Plastic	[X]	_____
[X] PCB	8082	4 DEG. C	2 X 1L AMBER GLASS	[X]	_____
[ ]					_____
[ ]					_____
[ ]					_____

PURGE OBSERVATIONS _____

PURGE WATER CONTAINERIZED YES NO _____

MISC. OBSERVATIONS

QC INFORMATION

SAMPLED BY: Daron Kurkjian

FIELD FORM PREP. BY: DGK 10/16/09

FIELD FORM CHECK BY: CTM 10/16/09

NOTES:

1. Purging should not exceed **5 well volumes**
2. Stabilization is considered to be achieved when three consecutive readings are taken at 3 to 5 minute intervals are within the following limits:
turbidity (10% for values greater than 1 NTU), specific conductivity (3%), temperature (1˚C), pH (± 0.1units), dissolved oxygen (10%), ORP (10 mV)

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**New Bedford Harbor Superfund Site**	EVENT NAME	Sawyer Street CDF 10/09	JOB NUMBER	**3650090138**
LOCATION ID	MW-5	FIELD SAMPLE ID	MW-005-101309	CLIENT	**Woods Hole Group**
ACTIVITY	START 11:30 END 13:45	SAMPLE TIME	12:35	DATE	10/13/2009

WATER LEVEL / WELL INFORMATION

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF CASING

INITIAL DEPTH TO WATER	7.99 feet		
FINAL DEPTH TO WATER	10.73 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	See survey feet
HISTORICAL WELL DEPTH	18.4 feet	CASING / WELL DIFFERENCE	See survey feet
SCREEN LENGTH	- feet	WELL DIAMETER	2 inches

PUMP SETTINGS

PRESSURE TO PUMP	20 psi
REFILL SETTING	10 sec
DISCHARGE SETTING	5 sec

PID READINGS

PID MODEL	-
PID WELL MOUTH	- ppmv
PID AMBIENT AIR	- ppmv

WELL DIAMETER FACTORS / VOLUME INFORMATION

DIAMETER (inches)	1.0	1.5	2.0	4.0	6.0
GALLONS/FOOT	0.041	0.092	0.163	0.651	1.470

TOTAL VOL. PURGED: 2.02 gal

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

FEET OF WATER IN WELL	10.41 feet	ONE WELL VOLUME	1.70 gal	TWO WELL VOLUMES	3.39 gal	THREE WELL VOLUMES	5.09 gal

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
11:45	10.40	200	14.89	0.580	7.72	0.79	12.1	-225.9	15	no color
11:50	10.6	150	14.91	0.583	7.71	0.77	12.0	-229.9	15	
11:55	10.7	150	14.94	0.591	7.70	0.73	10.3	-216.1	15	
12:00	10.72	150	14.95	0.592	7.69	0.71	9.38	-215.8	15	
12:05	10.73	150	15.77	0.631	7.73	0.65	9.20	-215.3	15	temp increase due to sun
12:10	10.73	150	15.32	0.650	7.72	0.58	7.19	-210.5	15	coming out
12:15	10.73	150	15.24	0.651	7.71	0.56	6.69	-210.0	15	
12:20	10.73	150	14.68	0.651	7.65	0.51	4.96	-203.8	15	temp drop due to passing
12:25	10.73	150	14.46	0.652	7.69	0.46	4.87	-203.5	15	rain shower
12:30	10.73	150	14.35	0.652	7.70	0.45	4.91	-203.7	15	
12:35	Sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] QED SAMPLE PRO (1-3/4")
- [ ] PERISTALTIC
- [ ] OTHER _____

TYPE OF TUBING
- [X] LOW DENSITY POLYETHYLENE (Teflon-lined)
- [ ] OTHER Teflon Lined HDPE

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[X] VOCs	SW 846 Method 8260B MCP	HCL / 4 DEG. C	3 X 40 ML	[X]	_____/_____/_____
[X] Total metals (Ca,Cu,Cr,Pb)	SW846 6010B MCP	4 DEG. C	1 X 500 ml Plastic	[X]	_____
[X] TSS	160.2	4 DEG. C	1 X 1L Plastic	[X]	_____
[X] PCB	8082	4 DEG. C	2 X 1L AMBER GLASS	[X]	_____
[ ]					_____
[ ]					_____
[ ]					_____

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

MISC. OBSERVATIONS

QC INFORMATION

SAMPLED BY: Daron Kurkjian

FIELD FORM PREP. BY: DGK 10/16/09

FIELD FORM CHECK BY: CTM 10/16/09

NOTES:

1. Purging should not exceed **5 well volumes**
2. Stabilization is considered to be achieved when three consecutive readings are taken at 3 to 5 minute intervals are within the following limits:
turbidity (10% for values greater than 1 NTU), specific conductivity (3%), temperature (1˚C), pH (± 0.1units), dissolved oxygen (10%), ORP (10 mV)

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**New Bedford Harbor Superfund Site**	EVENT NAME	Sawyer Street CDF 10/09	JOB NUMBER	**3650090138**
LOCATION ID	MW-6	FIELD SAMPLE ID	MW-006-101309	CLIENT	**Woods Hole Group**
ACTIVITY	START 13:50 END 14:50	SAMPLE TIME	14:40	DATE	10/13/2009

WATER LEVEL / WELL INFORMATION

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF CASING

INITIAL DEPTH TO WATER	12.89 feet		
FINAL DEPTH TO WATER	13.7 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	See survey feet
HISTORICAL WELL DEPTH	18.85 feet	CASING / WELL DIFFERENCE	See survey feet
SCREEN LENGTH	- feet	WELL DIAMETER	2 inches

PUMP SETTINGS

PRESSURE TO PUMP	15 psi
REFILL SETTING	10 sec
DISCHARGE SETTING	5 sec

PID READINGS

PID MODEL	-
PID WELL MOUTH	- ppmv
PID AMBIENT AIR	- ppmv

WELL DIAMETER FACTORS / VOLUME INFORMATION

DIAMETER (inches)	1.0	1.5	2.0	4.0	6.0
GALLONS/FOOT	0.041	0.092	0.163	0.651	1.470

TOTAL VOL. PURGED 2.60 gal

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

FEET OF WATER IN WELL	5.96 feet	ONE WELL VOLUME	0.97 gal	TWO WELL VOLUMES	1.94 gal	THREE WELL VOLUMES	2.91 gal

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
14:00	13.70	250	11.42	0.452	7.31	2.64	29.5	-96	17	
14:05	13.70	250	14.47	0.450	7.32	1.87	17.9	-122	17	
14:10	13.70	250	14.51	0.446	7.35	1.40	11.1	-135	17	
14:15	13.70	250	14.72	0.445	7.37	1.07	5.43	-143	17	
14:20	13.70	250	14.86	0.446	7.39	0.92	4.15	-145	17	
14:23	13.70	250	14.95	0.447	7.38	0.87	2.69	-145	17	
14:26	13.70	250	14.93	0.448	7.38	0.85	2.33	-146	17	
14:29	13.70	250	15.19	0.445	7.38	0.77	1.98	-145	17	
14:32	13.70	250	15.03	0.445	7.38	0.82	1.85	-142	17	
14:35	13.70	250	14.95	0.442	7.36	0.82	1.69	-142	17	
14:38	13.70	250	14.91	0.443	7.39	0.76	1.67	-143	17	
14:40	sample									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] QED SAMPLE PRO (1-3/4")
- [ ] PERISTALTIC
- [ ] OTHER _____

TYPE OF TUBING
- [X] LOW DENSITY POLYETHYLENE (Teflon-lined)
- [ ] OTHER Teflon Lined HDPE

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[X] VOCs	SW 846 Method 8260B MCP	HCL / 4 DEG. C	3 X 40 ML	[X]	_____/_____/_____
[X] Total metals (Ca,Cu,Cr,Pb)	SW846 6010B MCP	4 DEG. C	1 X 500 ml Plastic	[X]	_____
[X] TSS	160.2	4 DEG. C	1 X 1L Plastic	[X]	_____
[X] PCB	8082	4 DEG. C	2 X 1L AMBER GLASS	[X]	_____
[ ]					_____
[ ]					_____
[ ]					_____

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

MISC. OBSERVATIONS

QC INFORMATION

SAMPLED BY: Mark Maggiore

FIELD FORM PREP. BY: DGK 10/16/09

FIELD FORM CHECK BY: CTM 10/16/09

NOTES:

1. Purging should not exceed **5 well volumes**
2. Stabilization is considered to be achieved when three consecutive readings are taken at 3 to 5 minute intervals are within the following limits:
turbidity (10% for values greater than 1 NTU), specific conductivity (3%), temperature (1˚C), pH (± 0.1units), dissolved oxygen (10%), ORP (10 mV)

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**New Bedford Harbor Superfund Site**	EVENT NAME	Sawyer Street CDF 10/09	JOB NUMBER	**3650090138**
LOCATION ID	MW-7A	FIELD SAMPLE ID	MW-007A-101309	CLIENT	**Woods Hole Group**
ACTIVITY	START 10:00 END 11:40	SAMPLE TIME	10:50	DATE	10/13/2009

WATER LEVEL / WELL INFORMATION

MEASUREMENT POINT
[X] TOP OF WELL RISER
[ ] TOP OF CASING

INITIAL DEPTH TO WATER	10.39 feet		
FINAL DEPTH TO WATER	10.6 feet	PROTECTIVE CASING STICKUP (FROM GROUND)	See survey feet
HISTORICAL WELL DEPTH	14.2 feet	CASING / WELL DIFFERENCE	See survey feet
SCREEN LENGTH	- feet	WELL DIAMETER	2 inches

PUMP SETTINGS

PRESSURE TO PUMP	15 psi
REFILL SETTING	10 sec
DISCHARGE SETTING	5 sec

PID READINGS

PID MODEL	-
PID WELL MOUTH	- ppmv
PID AMBIENT AIR	- ppmv

WELL DIAMETER FACTORS / VOLUME INFORMATION

DIAMETER (inches)	1.0	1.5	2.0	4.0	6.0
GALLONS/FOOT	0.041	0.092	0.163	0.651	1.470

TOTAL VOL. PURGED 1.04 gal
(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

FEET OF WATER IN WELL	3.81 feet	ONE WELL VOLUME	0.62 gal	TWO WELL VOLUMES	1.24 gal	THREE WELL VOLUMES	1.86 gal

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (+/- deg. C)	SPECIFIC CONDUCTANCE (ms/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (NTU)	REDOX (+/- mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
10:10	10.60	100	15.03	0.816	6.56	9.45	3.51	255	13	
10:15	10.60	100	15.21	0.791	6.59	6.50	1.67	244	13	
10:20	10.60	100	15.22	0.783	6.60	6.60	1.59	204	13	
10:25	10.60	100	15.24	0.784	6.61	5.59	1.06	166	13	
10:28	10.60	100	15.22	0.789	6.52	4.98	0.62	147	13	
10:31	10.60	100	15.21	0.797	6.63	4.43	0.60	125	13	
10:34	10.60	100	15.22	0.803	6.63	4.13	0.58	105	13	
10:37	10.60	100	15.21	0.808	6.64	3.92	0.37	96	13	
10:40	10.60	100	15.21	0.813	6.64	3.57	0.38	86	13	
10:43	10.60	100	15.20	0.819	6.64	3.41	0.45	80	13	
10:46	10.60	100	15.20	0.814	6.64	3.38	0.43	79	13	
10:50										

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
[X] QED SAMPLE PRO (1-3/4")
[ ] PERISTALTIC
[ ] OTHER _____

TYPE OF TUBING
[X] LOW DENSITY POLYETHYLENE (Teflon-lined)
[ ] OTHER Teflon Lined HDPE

ANALYTICAL PARAMETERS

CONTROL NUMBER _____

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID LETTERS
[X] VOCs	SW 846 Method 8260B MCP	HCL / 4 DEG. C	3 X 40 ML	[X]	_____/_____/_____
[X] Total metals (Ca,Cu,Cr,Pb)	SW846 6010B MCP	4 DEG. C	1 X 500 ml Plastic	[X]	_____
[X] TSS	160.2	4 DEG. C	1 X 1L Plastic	[X]	_____
[X] PCB	8082	4 DEG. C	2 X 1L AMBER GLASS	[X]	_____
[ ]					_____
[ ]					_____
[ ]					_____

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

MISC. OBSERVATIONS

Collected QC samples - MW-007A-101309REP, MW-007A-101309MS, and MW-007A-101309MSD

QC INFORMATION

SAMPLED BY: Mark Maggiore

FIELD FORM PREP. BY: DGK 10/16/09

FIELD FORM CHECK BY: CTM 10/16/09

NOTES:

1. Purging should not exceed **5 well volumes**
2. Stabilization is considered to be achieved when three consecutive readings are taken at 3 to 5 minute intervals are within the following limits:
turbidity (10% for values greater than 1 NTU), specific conductivity (3%), temperature (1˚C), pH (± 0.1units), dissolved oxygen (10%), ORP (10 mV)

APPENDIX B

Laboratory Analytical Reports

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MACTEC

Client Woods Hole Group Laboratory Alpha

MACTEC Project 3650090138 Data Report Number/Date L0909201 / 07/29/09

LABORATORY DATA REVIEW CHECKLIST

		YES	NO	NOT APPLICABLE
1.	Laboratory analytical data report appears complete (all data results present for all samples submitted for analysis) and there are no apparent transcription errors:	✓		
2.	Samples analyzed within applicable holding times (based on date of sample collection):*	✓		
3.	Trip blanks, field blanks or laboratory method blanks are free of blank contamination:	✓		
4.	If field duplicate samples collected, calculated results meet Relative Percent Difference guidelines: **	✓		
5.	Surrogate recoveries (organic analyses only) within laboratory reported recovery acceptance ranges:	✓ (except for naphthalene)		
6.	If Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples required to meet project objectives, Percent Recoveries (%R) and Relative Percent Difference (RPD) within laboratory reported acceptance ranges:	✓		
7.	Reported detection limits meet project objectives (e.g., are capable of achieving applicable site standards):	✓		
8.	Completed Chain-Of-Custody received noting sample/custody seal condition (with airbill, if appropriate):	DGK 1/26/10 ✓		
9.	Analytical costs within authorized budget for these services:			✓

COMMENTS: Lab data within requested limits

Notes: 1. This checklist is intended for use with the laboratory reporting formats typical of most projects. If "no" is answered to one or more of the above checklist questions 1 through 7, a more detailed Data Validation may be required, and a person knowledgeable in Data Validation protocols should be consulted. This checklist should not be used if the project scope requires Data Validation from the onset.

2. * = Based upon EPA Guidance and the applicable analytical method references. See reverse side of checklist for details.

3. ** = Based upon EPA Guidance. Use these criteria on duplicate and sample results which exceed five times the reported detection limit. See reverse side of checklist for details.

Checked by: DGK Date: 1/26/10

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FILE COPY

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L0909201
Client:	Woods Hole Group 81 Technology Park Drive East Falmouth, MA 02536
ATTN:	Bob Hamilton
Project Name:	NB HARBOR TASK 3.0 GW
Project Number:	NBH TASK 3.0 GW
Report Date:	07/29/09

CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:

Daron Kurkjian 1/26/10

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0909201-01	MW-01-070809	NEW BEDFORD, MA	07/08/09 13:40
L0909201-02	MW-01-070809-DUP	NEW BEDFORD, MA	07/08/09 13:40
L0909201-03	MW-03-070809	NEW BEDFORD, MA	07/08/09 13:50
L0909201-04	MW-04A-070809	NEW BEDFORD, MA	07/08/09 11:50
L0909201-05	MW-05-070809	NEW BEDFORD, MA	07/08/09 13:40
L0909201-06	MW-06-070809	NEW BEDFORD, MA	07/08/09 18:00
L0909201-07	MW-07A-070809	NEW BEDFORD, MA	07/08/09 16:05
L0909201-08	TRIP BLANK	NEW BEDFORD, MA	07/08/09 20:00
L0909201-09	EQUIPMENT BLANK	NEW BEDFORD, MA	07/08/09 20:00

Project Name:	NB HARBOR TASK 3.0 GW	**Lab Number:**	L0909201
Project Number:	NBH TASK 3.0 GW	**Report Date:**	07/29/09

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

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

For additional information, please contact Client Services at 800-624-9220.

Volatile Organics 8260

The initial calibration had a value for Naphthalene outside of the 15% RSD QC advisory limit but <30% RSD. This initial calibration meets the acceptability criteria.

L0909201-01 through -09 was Non Detect for Total Xylene.

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

Authorized Signature: Peter Neil

Title: Technical Director/Representative Date: 07/29/09

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ORGANICS

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VOLATILES

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Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-01	Date Collected:	07/08/09 13:40
Client ID:	MW-01-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	07/15/09 15:53		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1
Dibromomethane	ND		ug/l	2.00	1
Bromodichloromethane	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-01	Date Collected:	07/08/09 13:40
Client ID:	MW-01-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	100		70-130
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-02	Date Collected:	07/08/09 13:40
Client ID:	MW-01-070809-DUP	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	07/15/09 17:33		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1
Dibromomethane	ND		ug/l	2.00	1
Bromodichloromethane	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-02	Date Collected:	07/08/09 13:40
Client ID:	MW-01-070809-DUP	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	102		70-130
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-03	Date Collected:	07/08/09 13:50
Client ID:	MW-03-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	07/15/09 18:07		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1
Dibromomethane	ND		ug/l	2.00	1
Bromodichloromethane	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-03	Date Collected:	07/08/09 13:50
Client ID:	MW-03-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	100		70-130
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-04	Date Collected:	07/08/09 11:50
Client ID:	MW-04A-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	07/15/09 18:41		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1
Dibromomethane	ND		ug/l	2.00	1
Bromodichloromethane	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-04	Date Collected:	07/08/09 11:50
Client ID:	MW-04A-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	102		70-130
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-05	Date Collected:	07/08/09 13:40
Client ID:	MW-05-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	07/15/09 19:15		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1
Dibromomethane	ND		ug/l	2.00	1
Bromodichloromethane	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-05	Date Collected:	07/08/09 13:40
Client ID:	MW-05-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	101		70-130
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-06	Date Collected:	07/08/09 18:00
Client ID:	MW-06-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	07/15/09 19:48		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1
Dibromomethane	ND		ug/l	2.00	1
Bromodichloromethane	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-06	Date Collected:	07/08/09 18:00
Client ID:	MW-06-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	100		70-130
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-07	Date Collected:	07/08/09 16:05
Client ID:	MW-07A-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	07/15/09 20:22		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1
Dibromomethane	ND		ug/l	2.00	1
Bromodichloromethane	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-07	Date Collected:	07/08/09 16:05
Client ID:	MW-07A-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	104		70-130
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-08	Date Collected:	07/08/09 20:00
Client ID:	TRIP BLANK	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	07/15/09 14:47		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1
Dibromomethane	ND		ug/l	2.00	1
Bromodichloromethane	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-08	Date Collected:	07/08/09 20:00
Client ID:	TRIP BLANK	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	98		70-130
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-09	Date Collected:	07/08/09 20:00
Client ID:	EQUIPMENT BLANK	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	07/15/09 15:20		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Acetone	26.1		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1
Dibromomethane	ND		ug/l	2.00	1
Bromodichloromethane	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-09	Date Collected:	07/08/09 20:00
Client ID:	EQUIPMENT BLANK	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	99		70-130
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 07/15/09 13:41
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01-09 Batch: WG371011-5				
Dichlorodifluoromethane	ND		ug/l	2.00
Chloromethane	ND		ug/l	2.00
Vinyl chloride	ND		ug/l	2.00
Bromomethane	ND		ug/l	2.00
Chloroethane	ND		ug/l	2.00
Trichlorofluoromethane	ND		ug/l	2.00
Acetone	ND		ug/l	5.00
1,1-Dichloroethene	ND		ug/l	2.00
Methylene chloride	ND		ug/l	5.00
trans-1,2-Dichloroethene	ND		ug/l	2.00
1,1-Dichloroethane	ND		ug/l	2.00
2-Butanone	ND		ug/l	5.00
cis-1,2-Dichloroethene	ND		ug/l	2.00
2,2-Dichloropropane	ND		ug/l	2.00
Bromochloromethane	ND		ug/l	2.00
Chloroform	ND		ug/l	2.00
1,1,1-Trichloroethane	ND		ug/l	2.00
1,1-Dichloropropene	ND		ug/l	2.00
Carbon tetrachloride	ND		ug/l	2.00
Benzene	ND		ug/l	2.00
1,2-Dichloroethane	ND		ug/l	2.00
Trichloroethene	ND		ug/l	2.00
1,2-Dichloropropane	ND		ug/l	2.00
Dibromomethane	ND		ug/l	2.00
Bromodichloromethane	ND		ug/l	2.00
Toluene	ND		ug/l	2.00
1,1,2-Trichloroethane	ND		ug/l	2.00
Tetrachloroethene	ND		ug/l	2.00
1,3-Dichloropropane	ND		ug/l	2.00
Dibromochloromethane	ND		ug/l	2.00
1,2-Dibromoethane	ND		ug/l	2.00

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 07/15/09 13:41
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01-09 Batch: WG371011-5				
Chlorobenzene	ND		ug/l	2.00
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00
Ethylbenzene	ND		ug/l	2.00
p/m-Xylene	ND		ug/l	4.00
o-Xylene	ND		ug/l	2.00
Styrene	ND		ug/l	2.00
Bromoform	ND		ug/l	2.00
Isopropylbenzene	ND		ug/l	2.00
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00
Bromobenzene	ND		ug/l	2.00
1,2,3-Trichloropropane	ND		ug/l	2.00
n-Propylbenzene	ND		ug/l	2.00
o-Chlorotoluene	ND		ug/l	2.00
1,3,5-Trimethylbenzene	ND		ug/l	2.00
p-Chlorotoluene	ND		ug/l	2.00
tert-Butylbenzene	ND		ug/l	2.00
1,2,4-Trimethylbenzene	ND		ug/l	2.00
sec-Butylbenzene	ND		ug/l	2.00
1,3-Dichlorobenzene	ND		ug/l	2.00
p-Isopropyltoluene	ND		ug/l	2.00
1,4-Dichlorobenzene	ND		ug/l	2.00
n-Butylbenzene	ND		ug/l	2.00
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00
1,2-Dichlorobenzene	ND		ug/l	2.00
1,2,4-Trichlorobenzene	ND		ug/l	2.00
Hexachlorobutadiene	ND		ug/l	2.00
Naphthalene	ND		ug/l	2.00
1,2,3-Trichlorobenzene	ND		ug/l	2.00

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 07/15/09 13:41
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01-09 Batch: WG371011-5				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	97		70-130
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 Batch: WG371011-3 WG371011-4					
Dichlorodifluoromethane	91	100	70-130	9	25
Chloromethane	82	88	70-130	7	25
Vinyl chloride	95	102	70-130	7	25
Bromomethane	102	105	70-130	3	25
Chloroethane	97	102	70-130	5	25
Trichlorofluoromethane	83	89	70-130	7	25
Acetone	75	77	70-130	3	25
1,1-Dichloroethene	80	84	70-130	5	25
Methylene chloride	89	93	70-130	4	25
trans-1,2-Dichloroethene	83	87	70-130	5	25
1,1-Dichloroethane	84	88	70-130	5	25
2-Butanone	89	95	70-130	7	25
cis-1,2-Dichloroethene	80	80	70-130	0	25
2,2-Dichloropropane	93	98	70-130	5	25
Bromochloromethane	88	94	70-130	7	25
Chloroform	83	87	70-130	5	25
1,1,1-Trichloroethane	84	89	70-130	6	25
1,1-Dichloropropene	86	93	70-130	8	25
Carbon tetrachloride	75	79	70-130	5	25
Benzene	84	88	70-130	5	25
1,2-Dichloroethane	78	82	70-130	5	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 Batch: WG371011-3 WG371011-4					
Trichloroethene	80	84	70-130	5	25
1,2-Dichloropropane	81	85	70-130	5	25
Dibromomethane	80	84	70-130	5	25
Bromodichloromethane	80	84	70-130	5	25
Toluene	82	86	70-130	5	25
1,1,2-Trichloroethane	81	84	70-130	4	25
Tetrachloroethene	72	73	70-130	1	25
1,3-Dichloropropane	80	84	70-130	5	25
Dibromochloromethane	81	82	70-130	1	25
1,2-Dibromoethane	82	82	70-130	0	25
Chlorobenzene	86	90	70-130	5	25
1,1,1,2-Tetrachloroethane	85	90	70-130	6	25
Ethylbenzene	87	90	70-130	3	25
p/m-Xylene	84	91	70-130	8	25
o-Xylene	85	89	70-130	5	25
Styrene	87	90	70-130	3	25
Bromoform	84	85	70-130	1	25
Isopropylbenzene	85	89	70-130	5	25
1,1,2,2-Tetrachloroethane	83	85	70-130	2	25
Bromobenzene	86	88	70-130	2	25
1,2,3-Trichloropropane	86	90	70-130	5	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 Batch: WG371011-3 WG371011-4					
n-Propylbenzene	87	92	70-130	6	25
o-Chlorotoluene	85	90	70-130	6	25
1,3,5-Trimethylbenzene	87	92	70-130	6	25
p-Chlorotoluene	87	92	70-130	6	25
tert-Butylbenzene	85	89	70-130	5	25
1,2,4-Trimethylbenzene	85	92	70-130	8	25
sec-Butylbenzene	87	92	70-130	6	25
1,3-Dichlorobenzene	86	91	70-130	6	25
p-Isopropyltoluene	86	92	70-130	7	25
1,4-Dichlorobenzene	85	90	70-130	6	25
n-Butylbenzene	91	98	70-130	7	25
1,2-Dibromo-3-chloropropane	81	82	70-130	1	25
1,2-Dichlorobenzene	84	89	70-130	6	25
1,2,4-Trichlorobenzene	83	86	70-130	4	25
Hexachlorobutadiene	84	86	70-130	2	25
Naphthalene	81	82	70-130	1	25
1,2,3-Trichlorobenzene	85	84	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW

Project Number: NBH TASK 3.0 GW

Lab Number: L0909201

Report Date: 07/29/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 Batch: WG371011-3 WG371011-4					

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	99		100		70-130
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	99		99		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW
Lab Number: L0909201
Report Date: 07/29/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG371011-6 WG371011-7 QC Sample: L0909201-01 Client ID: MW-01-070809									
Dichlorodifluoromethane	ND	50	52.2	104	49.7	100	70-130	4	25
Chloromethane	ND	50	46.3	93	45.8	92	70-130	1	25
Vinyl chloride	ND	50	53.4	107	53.1	106	70-130	1	25
Bromomethane	ND	50	52.5	105	55.1	110	70-130	5	25
Chloroethane	ND	50	55.7	111	53.5	107	70-130	4	25
Trichlorofluoromethane	ND	50	46.4	93	45.1	90	70-130	3	25
Acetone	ND	50	38.5	77	38.2	76	70-130	1	25
1,1-Dichloroethene	ND	50	45.0	90	43.5	87	70-130	3	25
Methylene chloride	ND	50	47.0	94	47.1	94	70-130	0	25
trans-1,2-Dichloroethene	ND	50	45.5	91	44.3	89	70-130	2	25
1,1-Dichloroethane	ND	50	45.0	90	44.1	88	70-130	2	25
2-Butanone	ND	50	48.5	97	46.5	93	70-130	4	25
cis-1,2-Dichloroethene	ND	50	41.2	82	42.3	84	70-130	2	25
2,2-Dichloropropane	ND	50	51.1	102	49.0	98	70-130	4	25
Bromochloromethane	ND	50	46.6	93	47.1	94	70-130	1	25
Chloroform	ND	50	44.4	89	44.1	88	70-130	1	25
1,1,1-Trichloroethane	ND	50	46.1	92	44.3	89	70-130	3	25
1,1-Dichloropropene	ND	50	49.0	98	48.1	96	70-130	2	25
Carbon tetrachloride	ND	50	41.9	84	40.6	81	70-130	4	25
Benzene	ND	50	45.0	90	44.2	88	70-130	2	25
1,2-Dichloroethane	ND	50	42.0	84	41.6	83	70-130	1	25

Matrix Spike Analysis
Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW
Lab Number: L0909201
Report Date: 07/29/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG371011-6 WG371011-7 QC Sample: L0909201-01 Client ID: MW-01-070809									
Trichloroethene	ND	50	42.7	85	43.0	86	70-130	1	25
1,2-Dichloropropane	ND	50	42.8	86	42.1	84	70-130	2	25
Dibromomethane	ND	50	42.1	84	42.7	85	70-130	1	25
Bromodichloromethane	ND	50	41.7	83	42.5	85	70-130	2	25
Toluene	ND	50	44.3	88	43.4	87	70-130	1	25
1,1,2-Trichloroethane	ND	50	41.9	84	42.5	85	70-130	1	25
Tetrachloroethene	ND	50	37.3	75	37.0	74	70-130	1	25
1,3-Dichloropropane	ND	50	41.6	83	42.4	85	70-130	2	25
Dibromochloromethane	ND	50	40.9	82	42.0	84	70-130	2	25
1,2-Dibromoethane	ND	50	40.8	82	41.7	84	70-130	2	25
Chlorobenzene	ND	50	44.9	90	45.2	90	70-130	0	25
1,1,1,2-Tetrachloroethane	ND	50	44.6	89	45.0	90	70-130	1	25
Ethylbenzene	ND	50	46.2	92	46.0	92	70-130	0	25
p/m-Xylene	ND	100	90.3	90	90.9	91	70-130	1	25
o-Xylene	ND	50	45.0	90	44.3	89	70-130	1	25
Styrene	ND	50	45.1	90	45.4	91	70-130	1	25
Bromoform	ND	50	41.5	83	42.9	86	70-130	4	25
Isopropylbenzene	ND	50	46.0	92	45.3	90	70-130	2	25
1,1,2,2-Tetrachloroethane	ND	50	43.0	86	43.5	87	70-130	1	25
Bromobenzene	ND	50	44.6	89	44.8	90	70-130	1	25
1,2,3-Trichloropropane	ND	50	43.4	87	44.5	89	70-130	2	25

Matrix Spike Analysis
Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW
Lab Number: L0909201
Report Date: 07/29/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG371011-6 WG371011-7 QC Sample: L0909201-01 Client ID: MW-01-070809									
n-Propylbenzene	ND	50	47.4	95	46.9	94	70-130	1	25
o-Chlorotoluene	ND	50	45.2	90	45.1	90	70-130	0	25
1,3,5-Trimethylbenzene	ND	50	46.6	93	46.1	92	70-130	1	25
p-Chlorotoluene	ND	50	46.0	92	45.9	92	70-130	0	25
tert-Butylbenzene	ND	50	45.9	92	46.1	92	70-130	0	25
1,2,4-Trimethylbenzene	ND	50	46.4	93	46.6	93	70-130	0	25
sec-Butylbenzene	ND	50	47.8	96	47.2	94	70-130	2	25
1,3-Dichlorobenzene	ND	50	45.5	91	46.0	92	70-130	1	25
p-Isopropyltoluene	ND	50	47.3	95	46.9	94	70-130	1	25
1,4-Dichlorobenzene	ND	50	45.5	91	45.8	92	70-130	1	25
n-Butylbenzene	ND	50	51.4	103	50.0	100	70-130	3	25
1,2-Dibromo-3-chloropropane	ND	50	42.8	86	44.5	89	70-130	3	25
1,2-Dichlorobenzene	ND	50	44.3	89	44.8	90	70-130	1	25
1,2,4-Trichlorobenzene	ND	50	47.3	95	47.7	95	70-130	0	25
Hexachlorobutadiene	ND	50	44.6	89	43.8	88	70-130	1	25
Naphthalene	ND	50	50.0	100	50.4	101	70-130	1	25
1,2,3-Trichlorobenzene	ND	50	48.1	96	48.1	96	70-130	0	25

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW
Lab Number: L0909201
Report Date: 07/29/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG371011-6 WG371011-7 QC Sample: L0909201-01 Client ID: MW-01-070809									

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	101		100		70-130
Toluene-d8	97		97		70-130

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Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-01	Date Collected:	07/08/09 13:40
Client ID:	MW-01-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	07/13/09 12:24
Analytical Date:	07/25/09 22:11		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.020	1
Aroclor 1221	ND		ug/l	0.020	1
Aroclor 1232	ND		ug/l	0.020	1
Aroclor 1242	ND		ug/l	0.020	1
Aroclor 1248	ND		ug/l	0.020	1
Aroclor 1254	ND		ug/l	0.020	1
Aroclor 1260	ND		ug/l	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	67		30-150
Decachlorobiphenyl	52		30-150
Tetrachloro-meta-Xylene	68		30-150
Decachlorobiphenyl	50		30-150

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-02	Date Collected:	07/08/09 13:40
Client ID:	MW-01-070809-DUP	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	07/13/09 12:24
Analytical Date:	07/25/09 23:45		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.023	1
Aroclor 1221	ND		ug/l	0.023	1
Aroclor 1232	ND		ug/l	0.023	1
Aroclor 1242	ND		ug/l	0.023	1
Aroclor 1248	ND		ug/l	0.023	1
Aroclor 1254	ND		ug/l	0.023	1
Aroclor 1260	ND		ug/l	0.023	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	67		30-150
Decachlorobiphenyl	57		30-150
Tetrachloro-meta-Xylene	67		30-150
Decachlorobiphenyl	54		30-150

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-03	Date Collected:	07/08/09 13:50
Client ID:	MW-03-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	07/13/09 12:24
Analytical Date:	07/26/09 00:16		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.021	1
Aroclor 1221	ND		ug/l	0.021	1
Aroclor 1232	ND		ug/l	0.021	1
Aroclor 1242	ND		ug/l	0.021	1
Aroclor 1248	0.052		ug/l	0.021	1
Aroclor 1254	ND		ug/l	0.021	1
Aroclor 1260	ND		ug/l	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	66		30-150
Decachlorobiphenyl	44		30-150
Tetrachloro-meta-Xylene	66		30-150
Decachlorobiphenyl	43		30-150

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-04	Date Collected:	07/08/09 11:50
Client ID:	MW-04A-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	07/13/09 12:24
Analytical Date:	07/26/09 00:48		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.021	1
Aroclor 1221	ND		ug/l	0.021	1
Aroclor 1232	ND		ug/l	0.021	1
Aroclor 1242	ND		ug/l	0.021	1
Aroclor 1248	ND		ug/l	0.021	1
Aroclor 1254	ND		ug/l	0.021	1
Aroclor 1260	ND		ug/l	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	70		30-150
Decachlorobiphenyl	50		30-150
Tetrachloro-meta-Xylene	71		30-150
Decachlorobiphenyl	48		30-150

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-05	Date Collected:	07/08/09 13:40
Client ID:	MW-05-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	07/13/09 12:24
Analytical Date:	07/26/09 01:19		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.021	1
Aroclor 1221	ND		ug/l	0.021	1
Aroclor 1232	ND		ug/l	0.021	1
Aroclor 1242	ND		ug/l	0.021	1
Aroclor 1248	0.051		ug/l	0.021	1
Aroclor 1254	ND		ug/l	0.021	1
Aroclor 1260	ND		ug/l	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	75		30-150
Decachlorobiphenyl	52		30-150
Tetrachloro-meta-Xylene	76		30-150
Decachlorobiphenyl	50		30-150

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-06	Date Collected:	07/08/09 18:00
Client ID:	MW-06-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	07/13/09 12:24
Analytical Date:	07/26/09 01:51		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.021	1
Aroclor 1221	ND		ug/l	0.021	1
Aroclor 1232	ND		ug/l	0.021	1
Aroclor 1242	ND		ug/l	0.021	1
Aroclor 1248	ND		ug/l	0.021	1
Aroclor 1254	ND		ug/l	0.021	1
Aroclor 1260	ND		ug/l	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	64		30-150
Decachlorobiphenyl	45		30-150
Tetrachloro-meta-Xylene	67		30-150
Decachlorobiphenyl	43		30-150

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-07	Date Collected:	07/08/09 16:05
Client ID:	MW-07A-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	07/13/09 12:24
Analytical Date:	07/26/09 02:22		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.020	1
Aroclor 1221	ND		ug/l	0.020	1
Aroclor 1232	ND		ug/l	0.020	1
Aroclor 1242	ND		ug/l	0.020	1
Aroclor 1248	ND		ug/l	0.020	1
Aroclor 1254	ND		ug/l	0.020	1
Aroclor 1260	ND		ug/l	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	77		30-150
Decachlorobiphenyl	43		30-150
Tetrachloro-meta-Xylene	78		30-150
Decachlorobiphenyl	40		30-150

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-09	Date Collected:	07/08/09 20:00
Client ID:	EQUIPMENT BLANK	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	07/13/09 12:24
Analytical Date:	07/26/09 02:53		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.020	1
Aroclor 1221	ND		ug/l	0.020	1
Aroclor 1232	ND		ug/l	0.020	1
Aroclor 1242	ND		ug/l	0.020	1
Aroclor 1248	ND		ug/l	0.020	1
Aroclor 1254	ND		ug/l	0.020	1
Aroclor 1260	ND		ug/l	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	75		30-150
Decachlorobiphenyl	48		30-150
Tetrachloro-meta-Xylene	76		30-150
Decachlorobiphenyl	45		30-150

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 07/25/09 20:37
Analyst: JR

Extraction Method: EPA 3510C
Extraction Date: 07/13/09 12:24

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by GC - Mansfield Lab for sample(s): 01-07,09 Batch: WG370561-1				
Aroclor 1016	ND		ug/l	0.020
Aroclor 1221	ND		ug/l	0.020
Aroclor 1232	ND		ug/l	0.020
Aroclor 1242	ND		ug/l	0.020
Aroclor 1248	ND		ug/l	0.020
Aroclor 1254	ND		ug/l	0.020
Aroclor 1260	ND		ug/l	0.020

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	79		30-150
Decachlorobiphenyl	58		30-150
Tetrachloro-meta-Xylene	80		30-150
Decachlorobiphenyl	56		30-150

Matrix Spike Analysis
Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW
Lab Number: L0909201
Report Date: 07/29/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG370561-4 WG370561-5 QC Sample: L0909201-01 Client ID: MW-01-070809									
Aroclor 1016	ND	1190	1.14	96	1.07	92	40-140	4	50
Aroclor 1260	ND	1190	1.05	88	0.991	85	40-140	3	50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Decachlorobiphenyl	60		56		30-150
Tetrachloro-meta-Xylene	79		73		30-150
Decachlorobiphenyl	57		53		30-150
Tetrachloro-meta-Xylene	80		74		30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW

Project Number: NBH TASK 3.0 GW

Lab Number: L0909201

Report Date: 07/29/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG370561-2 WG370561-3					
Aroclor 1016	93	92	40-140	1	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	77		77		30-150
Decachlorobiphenyl	59		56		30-150
Tetrachloro-meta-Xylene	78		77		30-150
Decachlorobiphenyl	57		54		30-150

Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG370561-2 WG370561-3					
Aroclor 1260	87	89	40-140	2	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	77		77		30-150
Decachlorobiphenyl	59		56		30-150
Tetrachloro-meta-Xylene	78		77		30-150
Decachlorobiphenyl	57		54		30-150

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METALS

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Project Name:	NB HARBOR TASK 3.0 GW	**Lab Number:**	L0909201
Project Number:	NBH TASK 3.0 GW	**Report Date:**	07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-01	Date Collected:	07/08/09 13:40
Client ID:	MW-01-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:33	41,-	1,6020A	LP
Chromium, Total	ND		mg/l	0.0100	20	07/22/09 12:00	07/24/09 11:40	EPA 3020A	1,6020A	LR
Copper, Total	0.0036		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:33	41,-	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:33	41,-	1,6020A	LP

Project Name:	NB HARBOR TASK 3.0 GW	**Lab Number:**	L0909201
Project Number:	NBH TASK 3.0 GW	**Report Date:**	07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-02	Date Collected:	07/08/09 13:40
Client ID:	MW-01-070809-DUP	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:36	41,-	1,6020A	LP
Chromium, Total	ND		mg/l	0.0100	20	07/22/09 12:00	07/24/09 11:58	EPA 3020A	1,6020A	LR
Copper, Total	0.0033		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:36	41,-	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:36	41,-	1,6020A	LP

Project Name:	NB HARBOR TASK 3.0 GW	**Lab Number:**	L0909201
Project Number:	NBH TASK 3.0 GW	**Report Date:**	07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-03	Date Collected:	07/08/09 13:50
Client ID:	MW-03-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:37	41,-	1,6020A	LP
Chromium, Total	ND		mg/l	0.0100	20	07/22/09 12:00	07/24/09 12:01	EPA 3020A	1,6020A	LR
Copper, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:37	41,-	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:37	41,-	1,6020A	LP

Project Name:	NB HARBOR TASK 3.0 GW	**Lab Number:**	L0909201
Project Number:	NBH TASK 3.0 GW	**Report Date:**	07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-04	Date Collected:	07/08/09 11:50
Client ID:	MW-04A-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:38	41,-	1,6020A	LP
Chromium, Total	ND		mg/l	0.0100	20	07/22/09 12:00	07/24/09 12:03	EPA 3020A	1,6020A	LR
Copper, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:38	41,-	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:38	41,-	1,6020A	LP

Project Name:	NB HARBOR TASK 3.0 GW	**Lab Number:**	L0909201
Project Number:	NBH TASK 3.0 GW	**Report Date:**	07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-05	Date Collected:	07/08/09 13:40
Client ID:	MW-05-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:39	41,-	1,6020A	LP
Chromium, Total	ND		mg/l	0.0100	20	07/22/09 12:00	07/24/09 12:06	EPA 3020A	1,6020A	LR
Copper, Total	0.0090		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:39	41,-	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:39	41,-	1,6020A	LP

Project Name:	NB HARBOR TASK 3.0 GW	**Lab Number:**	L0909201
Project Number:	NBH TASK 3.0 GW	**Report Date:**	07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-06	Date Collected:	07/08/09 18:00
Client ID:	MW-06-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:41	41,-	1,6020A	LP
Chromium, Total	ND		mg/l	0.0100	20	07/22/09 12:00	07/24/09 12:09	EPA 3020A	1,6020A	LR
Copper, Total	0.0027		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:41	41,-	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:41	41,-	1,6020A	LP

Project Name:	NB HARBOR TASK 3.0 GW	**Lab Number:**	L0909201
Project Number:	NBH TASK 3.0 GW	**Report Date:**	07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-07	Date Collected:	07/08/09 16:05
Client ID:	MW-07A-070809	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:42	41,-	1,6020A	LP
Chromium, Total	ND		mg/l	0.0100	20	07/22/09 12:00	07/24/09 12:11	EPA 3020A	1,6020A	LR
Copper, Total	0.0047		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:42	41,-	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	07/27/09 08:00	07/28/09 10:42	41,-	1,6020A	LP

Project Name:	NB HARBOR TASK 3.0 GW	**Lab Number:**	L0909201
Project Number:	NBH TASK 3.0 GW	**Report Date:**	07/29/09

SAMPLE RESULTS

Lab ID:	L0909201-09	Date Collected:	07/08/09 20:00
Client ID:	EQUIPMENT BLANK	Date Received:	07/09/09
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0010	5		07/28/09 10:28	EPA 3020A	1,6020A	LP
Chromium, Total	ND		mg/l	0.0100	20	07/22/09 12:00	07/24/09 12:19	EPA 3020A	1,6020A	LR
Copper, Total	ND		mg/l	0.0025	5		07/28/09 10:28	EPA 3020A	1,6020A	LP
Lead, Total	ND		mg/l	0.005	5		07/28/09 10:28	EPA 3020A	1,6020A	LP

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07,09 Batch: WG371944-1									
Chromium, Total	ND		mg/l	0.0100	20	07/22/09 12:00	07/24/09 11:35	1,6020A	LR

Prep Information

Digestion Method: EPA 3020A

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG372496-1									
Cadmium, Total	ND		mg/l	0.0002	5	07/27/09 08:00	07/28/09 10:32	1,6020A	LP
Copper, Total	ND		mg/l	0.0002	5	07/27/09 08:00	07/28/09 10:32	1,6020A	LP
Lead, Total	ND		mg/l	0.0002	5	07/27/09 08:00	07/28/09 10:32	1,6020A	LP

Prep Information

Digestion Method: 41,-

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 09 Batch: WG372535-1									
Cadmium, Total	ND		mg/l	0.0010	5	07/27/09 11:00	07/28/09 10:27	1,6020A	LP
Copper, Total	ND		mg/l	0.0025	5	07/27/09 11:00	07/28/09 10:27	1,6020A	LP
Lead, Total	ND		mg/l	0.005	5	07/27/09 11:00	07/28/09 10:27	1,6020A	LP

Prep Information

Digestion Method: EPA 3020A

Lab Control Sample Analysis
Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG371944-2					
Chromium, Total	96	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG372496-2					
Cadmium, Total	98	-	80-120	-	20
Copper, Total	110	-	80-120	-	20
Lead, Total	99	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 09 Batch: WG372535-2					
Cadmium, Total	112	-	80-120	-	20
Copper, Total	102	-	80-120	-	20
Lead, Total	109	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW
Lab Number: L0909201
Report Date: 07/29/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG371944-4 WG371944-5 QC Sample: L0909201-01 Client ID: MW-01-070809									
Chromium, Total	ND	1	0.9922	99	0.9801	98	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG372496-4 WG372496-5 QC Sample: L0909201-01 Client ID: MW-01-070809									
Cadmium, Total	ND	0.1	0.0877	88	0.1036	104	75-125	17	20
Copper, Total	0.0036	0.1	0.0930	89	0.1104	107	75-125	18	20
Lead, Total	ND	0.1	0.088	88	0.105	105	75-125	18	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07,09 QC Batch ID: WG371944-3 QC Sample: L0909201-01 Client ID: MW-01-070809					
Chromium, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG372496-3 QC Sample: L0909201-01 Client ID: MW-01-070809					
Cadmium, Total	ND	ND	mg/l	NC	20
Copper, Total	0.0036	ND	mg/l	NC	20
Lead, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

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Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

SAMPLE RESULTS

Lab ID: L0909201-01
Client ID: MW-01-070809
Sample Location: NEW BEDFORD, MA
Matrix: Water

Date Collected: 07/08/09 13:40
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	4.00		mg/l	1.00	1	-	07/14/09 07:00	30,2540D	NR

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

SAMPLE RESULTS

Lab ID: L0909201-02
Client ID: MW-01-070809-DUP
Sample Location: NEW BEDFORD, MA
Matrix: Water

Date Collected: 07/08/09 13:40
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	3.40		mg/l	1.00	1	-	07/14/09 07:00	30,2540D	NR

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

SAMPLE RESULTS

Lab ID: L0909201-03
Client ID: MW-03-070809
Sample Location: NEW BEDFORD, MA
Matrix: Water

Date Collected: 07/08/09 13:50
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	27.0		mg/l	1.00	1	-	07/14/09 07:00	30,2540D	NR

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

SAMPLE RESULTS

Lab ID: L0909201-04
Client ID: MW-04A-070809
Sample Location: NEW BEDFORD, MA
Matrix: Water

Date Collected: 07/08/09 11:50
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	1.00		mg/l	1.00	1	-	07/14/09 07:00	30,2540D	NR

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

SAMPLE RESULTS

Lab ID: L0909201-05
Client ID: MW-05-070809
Sample Location: NEW BEDFORD, MA
Matrix: Water

Date Collected: 07/08/09 13:40
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	11.8		mg/l	1.00	1	-	07/14/09 07:00	30,2540D	NR

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

SAMPLE RESULTS

Lab ID: L0909201-06
Client ID: MW-06-070809
Sample Location: NEW BEDFORD, MA
Matrix: Water

Date Collected: 07/08/09 18:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	9.20		mg/l	1.00	1	-	07/14/09 07:00	30,2540D	NR

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

SAMPLE RESULTS

Lab ID: L0909201-07
Client ID: MW-07A-070809
Sample Location: NEW BEDFORD, MA
Matrix: Water

Date Collected: 07/08/09 16:05
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	ND		mg/l	1.00	1	-	07/14/09 07:00	30,2540D	NR

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

SAMPLE RESULTS

Lab ID: L0909201-09
Client ID: EQUIPMENT BLANK
Sample Location: NEW BEDFORD, MA
Matrix: Water

Date Collected: 07/08/09 20:00
Date Received: 07/09/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	1.00		mg/l	1.00	1	-	07/14/09 07:00	30,2540D	NR

Project Name: NB HARBOR TASK 3.0 GW **Lab Number:** L0909201

Project Number: NBH TASK 3.0 GW **Report Date:** 07/29/09

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab for sample(s): 01-07,09 Batch: WG371003-1									
Solids, Total Suspended	ND		mg/l	1.00	1	-	07/14/09 07:00	30,2540D	NR

Lab Control Sample Analysis
Batch Quality Control

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG371003-2					
Solids, Total Suspended	96	-	80-120	-	20

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0909201-01A	Plastic 250ml HNO3 preserved	B	<2	2.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0909201-01B	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	A2-PCB-8082(7)
L0909201-01C	Plastic 500ml unpreserved	B	7	2.5	Y	Absent	A2-TSS-2540D(7)
L0909201-01D	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-01E	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-01F	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-01G	Plastic 250ml HNO3 preserved	B	<2	2.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0909201-01I	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	A2-PCB-8082(7)
L0909201-01J	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	A2-PCB-8082(7)
L0909201-01K	Plastic 500ml unpreserved	B	7	2.5	Y	Absent	-
L0909201-01L	Plastic 500ml unpreserved	B	7	2.5	Y	Absent	-
L0909201-01M	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-01N	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-01O	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-01P	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-01Q	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-01R	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-02A	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	A2-PCB-8082(7)
L0909201-02B	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-02C	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-02D	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-02E	Plastic 250ml HNO3 preserved	B	<2	2.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0909201-02F	Plastic 1000ml unpreserved	B	7	2.5	Y	Absent	A2-TSS-2540D(7)
L0909201-03A	Plastic 250ml HNO3 preserved	B	<2	2.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)

*Hold days indicated by values in parentheses

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0909201-03B	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	A2-PCB-8082(7)
L0909201-03C	Plastic 500ml unpreserved	B	7	2.5	Y	Absent	A2-TSS-2540D(7)
L0909201-03D	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-03E	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-03F	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-04A	Plastic 250ml HNO3 preserved	A	<2	4.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0909201-04B	Amber 1000ml unpreserved	A	7	4.5	Y	Absent	A2-PCB-8082(7)
L0909201-04C	Plastic 500ml unpreserved	A	7	4.5	Y	Absent	A2-TSS-2540D(7)
L0909201-04D	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-04E	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-04F	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-05A	Plastic 250ml HNO3 preserved	A	<2	4.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0909201-05B	Amber 1000ml unpreserved	A	7	4.5	Y	Absent	A2-PCB-8082(7)
L0909201-05C	Plastic 500ml unpreserved	A	7	4.5	Y	Absent	A2-TSS-2540D(7)
L0909201-05D	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-05E	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-05F	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-06A	Plastic 250ml HNO3 preserved	A	<2	4.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0909201-06B	Amber 1000ml unpreserved	A	7	4.5	Y	Absent	A2-PCB-8082(7)
L0909201-06C	Plastic 500ml unpreserved	A	7	4.5	Y	Absent	A2-TSS-2540D(7)
L0909201-06D	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-06E	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-06F	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-07A	Plastic 250ml HNO3 preserved	A	<2	4.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0909201-07B	Amber 1000ml unpreserved	A	7	4.5	Y	Absent	A2-PCB-8082(7)
L0909201-07C	Plastic 500ml unpreserved	A	7	4.5	Y	Absent	A2-TSS-2540D(7)
L0909201-07D	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-07E	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-07F	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-08A	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)

*Hold days indicated by values in parentheses

Project Name: NB HARBOR TASK 3.0 GW
Project Number: NBH TASK 3.0 GW

Lab Number: L0909201
Report Date: 07/29/09

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0909201-08B	Vial HCl preserved	A	NA	4.5	Y	Absent	A2-VOC-8260(14)
L0909201-09A	Plastic 250ml HNO3 preserved	B	<2	2.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0909201-09B	Amber 1000ml unpreserved	B	7	2.5	Y	Absent	A2-PCB-8082(7)
L0909201-09C	Plastic 500ml unpreserved	B	7	2.5	Y	Absent	A2-TSS-2540D(7)
L0909201-09D	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-09E	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)
L0909201-09F	Vial HCl preserved	B	NA	2.5	Y	Absent	A2-VOC-8260(14)

*Hold days indicated by values in parentheses

Project Name:	NB HARBOR TASK 3.0 GW	**Lab Number:**	L0909201
Project Number:	NBH TASK 3.0 GW	**Report Date:**	07/29/09

GLOSSARY

Acronyms

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

Terms

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

Data Qualifiers

*****	- The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	- The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report

Project Name:	NB HARBOR TASK 3.0 GW	**Lab Number:**	L0909201
Project Number:	NBH TASK 3.0 GW	**Report Date:**	07/29/09

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

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

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

Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield Facility

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

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. ***NELAP Accredited.***

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

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

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

U.S. Army Corps of Engineers

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07290918:41

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

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

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

Date Rec'd in Lab:

ALPHA Job #: L0909201

Client Information

Client: MACTEC / Woodshole

Address: 107 Anderson Road, Wakefield MA

Phone: 781-245-8606

Fax:

Email: dgkurkjian@mactec.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: New Bedford

Project Location: New Bedford, MA

Project #: 3650 09 0138

Project Manager: DAVE WALSH

ALPHA Quote #:

Turn-Around Time

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

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MCP GW-1	

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: VOC, PCBs, TSS, Cd, Cr, Cu, Pb

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC	PCBs	TSS	Cd, Cr, Cu, Pb	Sample Specific Comments	TOTAL # BOTTLES
L0909201- 1	MW-01-070809	7/8/09	13:40	GW	DGK	X	X	X	X		
2	MW-01-070809-Dup	↓	↓	↓	↓	X	X	X	X		
1	MW-01-070809-MS					X	X	X	X		
1	MW-01-070809-MSD					X	X	X	X		
3	MW-03-070809	7/8/09	15:50	GW	MAM	X	X	X	X		
4	MW-04A-070809	"	11:50	"	"	X	X	X	X		
5	MW-05-070809	"	13:40	"	"	X	X	X	X		
6	MW-06-070809	"	18:00	"	DGK	X	X	X	X		
7	MW-07A-070809	7/8/09	16:05	"	"	X	X	X	X		
8	TRIP BLANK pck	7/8/09	20:00	Water	DGK	X					
9	EQUIPMENT BLANK	7/8/09	20:00			X	X	X	X		

Container Type	VOA	1L glass	1L Poly	Plastic
Preservative	HCl	—	—	HNO3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Mark Massive	7/9/09 10:40	J Branch	7/9 10:40
J Branch	7/9	Kevin Lee	7/9 12:50
Kevin Lee	7/9/09 13:27	[illegible]	7/9/09 1327

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

FORM NO: 01-01 (rev. 30-JUL-07)

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MACTEC

Client Woods Hole Group Laboratory Alpha

MACTEC Project 3650090138 Data Report Number/Date L0914566/ 11/04/09

LABORATORY DATA REVIEW CHECKLIST

		YES	NO	NOT APPLICABLE
1.	Laboratory analytical data report appears complete (all data results present for all samples submitted for analysis) and there are no apparent transcription errors:	✓		
2.	Samples analyzed within applicable holding times (based on date of sample collection):*	✓		
3.	Trip blanks, field blanks or laboratory method blanks are free of blank contamination:	✓		
4.	If field duplicate samples collected, calculated results meet Relative Percent Difference guidelines: **	✓		
5.	Surrogate recoveries (organic analyses only) within laboratory reported recovery acceptance ranges:	✓		
6.	If Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples required to meet project objectives, Percent Recoveries (%R) and Relative Percent Difference (RPD) within laboratory reported acceptance ranges:	✓		
7.	Reported detection limits meet project objectives (e.g., are capable of achieving applicable site standards):	✓		
8.	Completed Chain-Of-Custody received noting sample/custody seal condition (with airbill, if appropriate):			
9.	Analytical costs within authorized budget for these services:			✓

COMMENTS: Limited but acceptable surrogate deviations encountered. See Narrative.

Notes: 1. This checklist is intended for use with the laboratory reporting formats typical of most projects. If "no" is answered to one or more of the above checklist questions 1 through 7, a more detailed Data Validation may be required, and a person knowledgeable in Data Validation protocols should be consulted. This checklist should not be used if the project scope requires Data Validation from the onset.

2. * = Based upon EPA Guidance and the applicable analytical method references. See reverse side of checklist for details.

3. ** = Based upon EPA Guidance. Use these criteria on duplicate and sample results which exceed five times the reported detection limit. See reverse side of checklist for details.

Checked by: DGK Date: 1/26/10

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FILE COPY

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L0914566
Client:	Woods Hole Group 81 Technology Park Drive East Falmouth, MA 02536
ATTN:	Dave Walsh
Project Name:	NEW BEDFORD HARBOR
Project Number:	TO-0010
Report Date:	11/04/09

CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:

Dawn Kurkjian 1/26/10

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0914566-01	MW-004A-101309	NEW BEDFORD HARBOR	10/13/09 10:50
L0914566-02	MW-007A-101309	NEW BEDFORD HARBOR	10/13/09 10:50
L0914566-03	MW-007A-101309 REP	NEW BEDFORD HARBOR	10/13/09 10:50
L0914566-04	MW-001-101309	NEW BEDFORD HARBOR	10/13/09 12:15
L0914566-05	MW-005-101309	NEW BEDFORD HARBOR	10/13/09 12:35
L0914566-06	MW-006-101309	NEW BEDFORD HARBOR	10/13/09 14:40
L0914566-07	MW-003-101309	NEW BEDFORD HARBOR	10/13/09 15:20
L0914566-08	MW-001-101309 EB	NEW BEDFORD HARBOR	10/13/09 12:15
L0914566-09	MW-001-101309 TB	NEW BEDFORD HARBOR	10/13/09 12:15

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566
Project Number: TO-0010 **Report Date:** 11/04/09

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

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

For additional information, please contact Client Services at 800-624-9220.

Sample Receipt

The samples were received at the laboratory above the required temperature range. The samples were delivered directly from the sampling site and were on ice.

Volatile Organics 8260

L0914566-01 through -09: The reporting limits for the following compounds are above the project quanitation limits requested in the QAPP. These reporting limits are 1,4-Dioxane = 100ug/L, 4-Methyl-2-pentanone = 5ug/L and Tetrahydrofuran = 5ug/L and are based on the lowest concentration utilized in the initial calibration

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566
Project Number: TO-0010 **Report Date:** 11/04/09

Case Narrative (continued)

for each compound.

The bracketing calibration verification standard associated with samples L0914566-01 through -09 has Dichlorodifluoromethane (34%D) and Bromomehtane (35%D) outside the 30%D acceptance limit per QAPP requirement.

The WG385587-3 LCS recoveries are below the individual acceptance criteria for Dichlorodifluoromethane (68%). The LCSD met acceptance criteria and the RPD between the LCS/LCSD met acceptance criteria, therefore no further action was taken.

The WG385587-6/-7 MS/MSD recoveries were below the acceptance criteria for Dichlorodifluoromethane (54%/55%), Chloromethane (66%/66%), Vinyl chloride (66%/65), Bromomethane (40%/52%), Trichlorofluoromethane (64%/65%), Ethyl ether (69%), Acetone (56%/57%),Methylene chloride (66%/66%), Methyl tert butyl ether (63%/64%), Isopropyl ether (66%/68%), 1,1-Dichloroethane (68%/68%), Ethyl-tert-butyl-ether (64%/64%), cis-1,2-Dichloroethene (67%/68%), 2,2-Dichloropropane (64%/63%), Bromochloromethane (68%/67%), Chloroform (68%/68%), Tertiary-amyl methyl ether (66%/67%), Tetrahydrofuran (57%/59%), 1,2-Dichloroethane (65%/65%); however, the associated LCS/LCSD recoveries were within criteria. The results of the sample utilized for the MS/MSD are considered to have a potentially low bias for these compounds.
The MS/MSD RPDs associated with are above the in-house acceptance criteria for Bromomethane (26%). However, the RPD is within project specific criteria of 30% RPD. The results of the associated samples are reported.

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

Authorized Signature: Kathleen M. O'Brien

Title: Technical Director/Representative Date: 11/04/09

ORGANICS

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VOLATILES

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Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-01	Date Collected:	10/13/09 10:50
Client ID:	MW-004A-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	10/26/09 17:10		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Ethyl ether	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Carbon disulfide	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
Methyl tert butyl ether	ND		ug/l	2.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
Isopropyl Ether	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.00	1
Tetrahydrofuran	ND		ug/l	5.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-01	Date Collected:	10/13/09 10:50
Client ID:	MW-004A-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dibromomethane	ND		ug/l	2.00	1
1,4-Dioxane	ND		ug/l	100	1
Bromodichloromethane	ND		ug/l	2.00	1
4-Methyl-2-pentanone	ND		ug/l	5.00	1
cis-1,3-Dichloropropene	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
trans-1,3-Dichloropropene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
2-Hexanone	ND		ug/l	5.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-01	Date Collected:	10/13/09 10:50
Client ID:	MW-004A-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	109		70-130
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-02	Date Collected:	10/13/09 10:50
Client ID:	MW-007A-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	10/26/09 20:13		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Ethyl ether	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Carbon disulfide	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
Methyl tert butyl ether	ND		ug/l	2.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
Isopropyl Ether	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.00	1
Tetrahydrofuran	ND		ug/l	5.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-02 Date Collected: 10/13/09 10:50

Client ID: MW-007A-101309 Date Received: 10/13/09

Sample Location: NEW BEDFORD HARBOR Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dibromomethane	ND		ug/l	2.00	1
1,4-Dioxane	ND		ug/l	100	1
Bromodichloromethane	ND		ug/l	2.00	1
4-Methyl-2-pentanone	ND		ug/l	5.00	1
cis-1,3-Dichloropropene	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
trans-1,3-Dichloropropene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
2-Hexanone	ND		ug/l	5.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-02	Date Collected:	10/13/09 10:50
Client ID:	MW-007A-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	95		70-130
1,2-Dichloroethane-d4	73		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-03	Date Collected:	10/13/09 10:50
Client ID:	MW-007A-101309 REP	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	10/26/09 17:41		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Ethyl ether	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Carbon disulfide	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
Methyl tert butyl ether	ND		ug/l	2.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
Isopropyl Ether	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.00	1
Tetrahydrofuran	ND		ug/l	5.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-03	Date Collected:	10/13/09 10:50
Client ID:	MW-007A-101309 REP	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dibromomethane	ND		ug/l	2.00	1
1,4-Dioxane	ND		ug/l	100	1
Bromodichloromethane	ND		ug/l	2.00	1
4-Methyl-2-pentanone	ND		ug/l	5.00	1
cis-1,3-Dichloropropene	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
trans-1,3-Dichloropropene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
2-Hexanone	ND		ug/l	5.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-03	Date Collected:	10/13/09 10:50
Client ID:	MW-007A-101309 REP	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	95		70-130
1,2-Dichloroethane-d4	71		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-04	Date Collected:	10/13/09 12:15
Client ID:	MW-001-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	10/26/09 18:11		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Ethyl ether	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Carbon disulfide	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
Methyl tert butyl ether	ND		ug/l	2.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
Isopropyl Ether	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.00	1
Tetrahydrofuran	ND		ug/l	5.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-04	Date Collected:	10/13/09 12:15
Client ID:	MW-001-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dibromomethane	ND		ug/l	2.00	1
1,4-Dioxane	ND		ug/l	100	1
Bromodichloromethane	ND		ug/l	2.00	1
4-Methyl-2-pentanone	ND		ug/l	5.00	1
cis-1,3-Dichloropropene	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
trans-1,3-Dichloropropene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
2-Hexanone	ND		ug/l	5.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-04	Date Collected:	10/13/09 12:15
Client ID:	MW-001-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	98		70-130
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-05	Date Collected:	10/13/09 12:35
Client ID:	MW-005-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	10/26/09 18:42		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Ethyl ether	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Carbon disulfide	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
Methyl tert butyl ether	ND		ug/l	2.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
Isopropyl Ether	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.00	1
Tetrahydrofuran	ND		ug/l	5.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-05 Date Collected: 10/13/09 12:35

Client ID: MW-005-101309 Date Received: 10/13/09

Sample Location: NEW BEDFORD HARBOR Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dibromomethane	ND		ug/l	2.00	1
1,4-Dioxane	ND		ug/l	100	1
Bromodichloromethane	ND		ug/l	2.00	1
4-Methyl-2-pentanone	ND		ug/l	5.00	1
cis-1,3-Dichloropropene	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
trans-1,3-Dichloropropene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
2-Hexanone	ND		ug/l	5.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-05	Date Collected:	10/13/09 12:35
Client ID:	MW-005-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	117		70-130
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-06	Date Collected:	10/13/09 14:40
Client ID:	MW-006-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	10/26/09 19:12		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Ethyl ether	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Carbon disulfide	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
Methyl tert butyl ether	ND		ug/l	2.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
Isopropyl Ether	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.00	1
Tetrahydrofuran	ND		ug/l	5.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-06	Date Collected:	10/13/09 14:40
Client ID:	MW-006-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dibromomethane	ND		ug/l	2.00	1
1,4-Dioxane	ND		ug/l	100	1
Bromodichloromethane	ND		ug/l	2.00	1
4-Methyl-2-pentanone	ND		ug/l	5.00	1
cis-1,3-Dichloropropene	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
trans-1,3-Dichloropropene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
2-Hexanone	ND		ug/l	5.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-06	Date Collected:	10/13/09 14:40
Client ID:	MW-006-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	101		70-130
1,2-Dichloroethane-d4	76		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-07	Date Collected:	10/13/09 15:20
Client ID:	MW-003-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	10/26/09 19:43		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Ethyl ether	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Carbon disulfide	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
Methyl tert butyl ether	ND		ug/l	2.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
Isopropyl Ether	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.00	1
Tetrahydrofuran	ND		ug/l	5.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-07 Date Collected: 10/13/09 15:20

Client ID: MW-003-101309 Date Received: 10/13/09

Sample Location: NEW BEDFORD HARBOR Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dibromomethane	ND		ug/l	2.00	1
1,4-Dioxane	ND		ug/l	100	1
Bromodichloromethane	ND		ug/l	2.00	1
4-Methyl-2-pentanone	ND		ug/l	5.00	1
cis-1,3-Dichloropropene	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
trans-1,3-Dichloropropene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
2-Hexanone	ND		ug/l	5.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-07	Date Collected:	10/13/09 15:20
Client ID:	MW-003-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	95		70-130
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-08	Date Collected:	10/13/09 12:15
Client ID:	MW-001-101309 EB	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	10/26/09 16:09		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Ethyl ether	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Carbon disulfide	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
Methyl tert butyl ether	ND		ug/l	2.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
Isopropyl Ether	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.00	1
Tetrahydrofuran	ND		ug/l	5.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-08	Date Collected:	10/13/09 12:15
Client ID:	MW-001-101309 EB	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dibromomethane	ND		ug/l	2.00	1
1,4-Dioxane	ND		ug/l	100	1
Bromodichloromethane	ND		ug/l	2.00	1
4-Methyl-2-pentanone	ND		ug/l	5.00	1
cis-1,3-Dichloropropene	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
trans-1,3-Dichloropropene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
2-Hexanone	ND		ug/l	5.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-08	Date Collected:	10/13/09 12:15
Client ID:	MW-001-101309 EB	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	94		70-130
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-09	Date Collected:	10/13/09 12:15
Client ID:	MW-001-101309 TB	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	10/26/09 16:40		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dichlorodifluoromethane	ND		ug/l	2.00	1
Chloromethane	ND		ug/l	2.00	1
Vinyl chloride	ND		ug/l	2.00	1
Bromomethane	ND		ug/l	2.00	1
Chloroethane	ND		ug/l	2.00	1
Trichlorofluoromethane	ND		ug/l	2.00	1
Ethyl ether	ND		ug/l	2.00	1
Acetone	ND		ug/l	5.00	1
1,1-Dichloroethene	ND		ug/l	2.00	1
Carbon disulfide	ND		ug/l	2.00	1
Methylene chloride	ND		ug/l	5.00	1
Methyl tert butyl ether	ND		ug/l	2.00	1
trans-1,2-Dichloroethene	ND		ug/l	2.00	1
Isopropyl Ether	ND		ug/l	2.00	1
1,1-Dichloroethane	ND		ug/l	2.00	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.00	1
2-Butanone	ND		ug/l	5.00	1
cis-1,2-Dichloroethene	ND		ug/l	2.00	1
2,2-Dichloropropane	ND		ug/l	2.00	1
Bromochloromethane	ND		ug/l	2.00	1
Chloroform	ND		ug/l	2.00	1
1,1,1-Trichloroethane	ND		ug/l	2.00	1
1,1-Dichloropropene	ND		ug/l	2.00	1
Carbon tetrachloride	ND		ug/l	2.00	1
Benzene	ND		ug/l	2.00	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.00	1
Tetrahydrofuran	ND		ug/l	5.00	1
1,2-Dichloroethane	ND		ug/l	2.00	1
Trichloroethene	ND		ug/l	2.00	1
1,2-Dichloropropane	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-09	Date Collected:	10/13/09 12:15
Client ID:	MW-001-101309 TB	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
Dibromomethane	ND		ug/l	2.00	1
1,4-Dioxane	ND		ug/l	100	1
Bromodichloromethane	ND		ug/l	2.00	1
4-Methyl-2-pentanone	ND		ug/l	5.00	1
cis-1,3-Dichloropropene	ND		ug/l	2.00	1
Toluene	ND		ug/l	2.00	1
trans-1,3-Dichloropropene	ND		ug/l	2.00	1
1,1,2-Trichloroethane	ND		ug/l	2.00	1
2-Hexanone	ND		ug/l	5.00	1
Tetrachloroethene	ND		ug/l	2.00	1
1,3-Dichloropropane	ND		ug/l	2.00	1
Dibromochloromethane	ND		ug/l	2.00	1
1,2-Dibromoethane	ND		ug/l	2.00	1
Chlorobenzene	ND		ug/l	2.00	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00	1
Ethylbenzene	ND		ug/l	2.00	1
p/m-Xylene	ND		ug/l	4.00	1
o-Xylene	ND		ug/l	2.00	1
Styrene	ND		ug/l	2.00	1
Bromoform	ND		ug/l	2.00	1
Isopropylbenzene	ND		ug/l	2.00	1
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00	1
Bromobenzene	ND		ug/l	2.00	1
1,2,3-Trichloropropane	ND		ug/l	2.00	1
n-Propylbenzene	ND		ug/l	2.00	1
o-Chlorotoluene	ND		ug/l	2.00	1
1,3,5-Trimethylbenzene	ND		ug/l	2.00	1
p-Chlorotoluene	ND		ug/l	2.00	1
tert-Butylbenzene	ND		ug/l	2.00	1
1,2,4-Trimethylbenzene	ND		ug/l	2.00	1
sec-Butylbenzene	ND		ug/l	2.00	1
1,3-Dichlorobenzene	ND		ug/l	2.00	1
p-Isopropyltoluene	ND		ug/l	2.00	1
1,4-Dichlorobenzene	ND		ug/l	2.00	1
n-Butylbenzene	ND		ug/l	2.00	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00	1
1,2-Dichlorobenzene	ND		ug/l	2.00	1

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-09	Date Collected:	10/13/09 12:15
Client ID:	MW-001-101309 TB	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Mansfield Lab					
1,2,4-Trichlorobenzene	ND		ug/l	2.00	1
Hexachlorobutadiene	ND		ug/l	2.00	1
Naphthalene	ND		ug/l	2.00	1
1,2,3-Trichlorobenzene	ND		ug/l	2.00	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	96		70-130
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 10/26/09 14:34
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01-09 Batch: WG385587-5				
Dichlorodifluoromethane	ND		ug/l	2.00
Chloromethane	ND		ug/l	2.00
Vinyl chloride	ND		ug/l	2.00
Bromomethane	ND		ug/l	2.00
Chloroethane	ND		ug/l	2.00
Trichlorofluoromethane	ND		ug/l	2.00
Ethyl ether	ND		ug/l	2.00
Acetone	ND		ug/l	5.00
1,1-Dichloroethene	ND		ug/l	2.00
Carbon disulfide	ND		ug/l	2.00
Methylene chloride	ND		ug/l	5.00
Methyl tert butyl ether	ND		ug/l	2.00
trans-1,2-Dichloroethene	ND		ug/l	2.00
Isopropyl Ether	ND		ug/l	2.00
1,1-Dichloroethane	ND		ug/l	2.00
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.00
2-Butanone	ND		ug/l	5.00
cis-1,2-Dichloroethene	ND		ug/l	2.00
2,2-Dichloropropane	ND		ug/l	2.00
Bromochloromethane	ND		ug/l	2.00
Chloroform	ND		ug/l	2.00
1,1,1-Trichloroethane	ND		ug/l	2.00
1,1-Dichloropropene	ND		ug/l	2.00
Carbon tetrachloride	ND		ug/l	2.00
Benzene	ND		ug/l	2.00
Tertiary-Amyl Methyl Ether	ND		ug/l	2.00
Tetrahydrofuran	ND		ug/l	5.00
1,2-Dichloroethane	ND		ug/l	2.00
Trichloroethene	ND		ug/l	2.00
1,2-Dichloropropane	ND		ug/l	2.00
Dibromomethane	ND		ug/l	2.00

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 10/26/09 14:34
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01-09 Batch: WG385587-5				
1,4-Dioxane	ND		ug/l	100
Bromodichloromethane	ND		ug/l	2.00
4-Methyl-2-pentanone	ND		ug/l	5.00
cis-1,3-Dichloropropene	ND		ug/l	2.00
Toluene	ND		ug/l	2.00
trans-1,3-Dichloropropene	ND		ug/l	2.00
1,1,2-Trichloroethane	ND		ug/l	2.00
2-Hexanone	ND		ug/l	5.00
Tetrachloroethene	ND		ug/l	2.00
1,3-Dichloropropane	ND		ug/l	2.00
Dibromochloromethane	ND		ug/l	2.00
1,2-Dibromoethane	ND		ug/l	2.00
Chlorobenzene	ND		ug/l	2.00
1,1,1,2-Tetrachloroethane	ND		ug/l	2.00
Ethylbenzene	ND		ug/l	2.00
p/m-Xylene	ND		ug/l	4.00
o-Xylene	ND		ug/l	2.00
Styrene	ND		ug/l	2.00
Bromoform	ND		ug/l	2.00
Isopropylbenzene	ND		ug/l	2.00
1,1,2,2-Tetrachloroethane	ND		ug/l	2.00
Bromobenzene	ND		ug/l	2.00
1,2,3-Trichloropropane	ND		ug/l	2.00
n-Propylbenzene	ND		ug/l	2.00
o-Chlorotoluene	ND		ug/l	2.00
1,3,5-Trimethylbenzene	ND		ug/l	2.00
p-Chlorotoluene	ND		ug/l	2.00
tert-Butylbenzene	ND		ug/l	2.00
1,2,4-Trimethylbenzene	ND		ug/l	2.00
sec-Butylbenzene	ND		ug/l	2.00
1,3-Dichlorobenzene	ND		ug/l	2.00

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 10/26/09 14:34
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Mansfield Lab for sample(s): 01-09 Batch: WG385587-5				
p-Isopropyltoluene	ND		ug/l	2.00
1,4-Dichlorobenzene	ND		ug/l	2.00
n-Butylbenzene	ND		ug/l	2.00
1,2-Dibromo-3-chloropropane	ND		ug/l	2.00
1,2-Dichlorobenzene	ND		ug/l	2.00
1,2,4-Trichlorobenzene	ND		ug/l	2.00
Hexachlorobutadiene	ND		ug/l	2.00
Naphthalene	ND		ug/l	2.00
1,2,3-Trichlorobenzene	ND		ug/l	2.00

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	94		70-130
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010
Lab Number: L0914566
Report Date: 11/04/09

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 Batch: WG385587-3 WG385587-4								
Dichlorodifluoromethane	**68**	Q	74		70-130	8		25
Chloromethane	86		94		70-130	9		25
Vinyl chloride	81		89		70-130	9		25
Bromomethane	74		84		70-130	13		25
Chloroethane	87		97		70-130	11		25
Trichlorofluoromethane	77		86		70-130	11		25
Ethyl ether	88		99		70-130	12		25
Acetone	80		91		70-130	13		25
1,1-Dichloroethene	90		100		70-130	11		25
Carbon disulfide	93		104		70-130	11		25
Methylene chloride	82		90		70-130	9		25
Methyl tert butyl ether	82		90		70-130	9		25
trans-1,2-Dichloroethene	90		99		70-130	10		25
Isopropyl Ether	88		95		70-130	8		25
1,1-Dichloroethane	84		92		70-130	9		25
Ethyl-Tert-Butyl-Ether	82		89		70-130	8		25
2-Butanone	99		104		70-130	5		25
cis-1,2-Dichloroethene	81		89		70-130	9		25
2,2-Dichloropropane	88		95		70-130	8		25
Bromochloromethane	83		92		70-130	10		25
Chloroform	84		93		70-130	10		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010
Lab Number: L0914566
Report Date: 11/04/09

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 Batch: WG385587-3 WG385587-4								
1,1,1-Trichloroethane	99		85		70-130	15		25
1,1-Dichloropropene	85		94		70-130	10		25
Carbon tetrachloride	85		93		70-130	9		25
Benzene	87		95		70-130	9		25
Tertiary-Amyl Methyl Ether	84		91		70-130	8		25
Tetrahydrofuran	79		85		70-130	7		25
1,2-Dichloroethane	82		88		70-130	7		25
Trichloroethene	86		92		70-130	7		25
1,2-Dichloropropane	84		89		70-130	6		25
Dibromomethane	82		91		70-130	10		25
1,4-Dioxane	88		97		70-130	10		25
Bromodichloromethane	84		90		70-130	7		25
4-Methyl-2-pentanone	79		84		70-130	6		25
cis-1,3-Dichloropropene	85		89		70-130	5		25
Toluene	88		93		70-130	6		25
trans-1,3-Dichloropropene	83		87		70-130	5		25
1,1,2-Trichloroethane	87		94		70-130	8		25
2-Hexanone	83		86		70-130	4		25
Tetrachloroethene	79		87		70-130	10		25
1,3-Dichloropropane	86		89		70-130	3		25
Dibromochloromethane	82		87		70-130	6		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010
Lab Number: L0914566
Report Date: 11/04/09

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 Batch: WG385587-3 WG385587-4								
1,2-Dibromoethane	86		90		70-130	5		25
Chlorobenzene	94		101		70-130	7		25
1,1,1,2-Tetrachloroethane	89		96		70-130	8		25
Ethylbenzene	94		102		70-130	8		25
p/m-Xylene	95		103		70-130	8		25
o-Xylene	95		102		70-130	7		25
Styrene	92		98		70-130	6		25
Bromoform	88		94		70-130	7		25
Isopropylbenzene	94		102		70-130	8		25
1,1,2,2-Tetrachloroethane	90		100		70-130	11		25
Bromobenzene	93		97		70-130	4		25
1,2,3-Trichloropropane	84		92		70-130	9		25
n-Propylbenzene	94		102		70-130	8		25
o-Chlorotoluene	96		104		70-130	8		25
1,3,5-Trimethylbenzene	93		101		70-130	8		25
p-Chlorotoluene	97		105		70-130	8		25
tert-Butylbenzene	94		102		70-130	8		25
1,2,4-Trimethylbenzene	93		102		70-130	9		25
sec-Butylbenzene	95		102		70-130	7		25
1,3-Dichlorobenzene	90		96		70-130	6		25
p-Isopropyltoluene	94		101		70-130	7		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010
Lab Number: L0914566
Report Date: 11/04/09

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 Batch: WG385587-3 WG385587-4								
1,4-Dichlorobenzene	90		97		70-130	7		25
n-Butylbenzene	95		101		70-130	6		25
1,2-Dibromo-3-chloropropane	92		99		70-130	7		25
1,2-Dichlorobenzene	89		95		70-130	7		25
1,2,4-Trichlorobenzene	83		91		70-130	9		25
Hexachlorobutadiene	94		100		70-130	6		25
Naphthalene	83		90		70-130	8		25
1,2,3-Trichlorobenzene	86		94		70-130	9		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Dibromofluoromethane	111		94		70-130
1,2-Dichloroethane-d4	94		96		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	96		97		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010
Lab Number: L0914566
Report Date: 11/04/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG385587-6 WG385587-7 QC Sample: L0914566-02 Client ID: MW-007A-101309												
Dichlorodifluoromethane	ND	50	27.1	**54**	Q	27.6	**55**	Q	70-130	2		25
Chloromethane	ND	50	32.9	**66**	Q	33.0	**66**	Q	70-130	0		25
Vinyl chloride	ND	50	32.8	**66**	Q	32.6	**65**	Q	70-130	2		25
Bromomethane	ND	50	19.7	**40**	Q	25.8	**52**	Q	70-130	**26**		25
Chloroethane	ND	50	36.7	74		36.7	73		70-130	1		25
Trichlorofluoromethane	ND	50	32.0	**64**	Q	32.5	**65**	Q	70-130	2		25
Ethyl ether	ND	50	34.6	**69**	Q	34.8	70		70-130	1		25
Acetone	ND	50	27.7	**56**	Q	28.4	**57**	Q	70-130	2		25
1,1-Dichloroethene	ND	50	36.4	73		36.9	74		70-130	1		25
Carbon disulfide	ND	50	38.5	77		38.8	78		70-130	1		25
Methylene chloride	ND	50	32.9	**66**	Q	33.0	**66**	Q	70-130	0		25
Methyl tert butyl ether	ND	50	31.7	**63**	Q	32.1	**64**	Q	70-130	2		25
trans-1,2-Dichloroethene	ND	50	36.0	72		36.0	72		70-130	0		25
Isopropyl Ether	ND	50	33.0	**66**	Q	33.8	**68**	Q	70-130	3		25
1,1-Dichloroethane	ND	50	33.8	**68**	Q	33.9	**68**	Q	70-130	0		25
Ethyl-Tert-Butyl-Ether	ND	50	31.9	**64**	Q	31.9	**64**	Q	70-130	0		25
2-Butanone	ND	50	36.5	73		38.2	76		70-130	4		25
cis-1,2-Dichloroethene	ND	50	33.4	**67**	Q	34.2	**68**	Q	70-130	1		25
2,2-Dichloropropane	ND	50	31.9	**64**	Q	31.7	**63**	Q	70-130	2		25
Bromochloromethane	ND	50	34.0	**68**	Q	33.4	**67**	Q	70-130	1		25
Chloroform	ND	50	33.9	**68**	Q	33.9	**68**	Q	70-130	0		25

Matrix Spike Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010
Lab Number: L0914566
Report Date: 11/04/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG385587-6 WG385587-7 QC Sample: L0914566-02 Client ID: MW-007A-101309												
1,1,1-Trichloroethane	ND	50	41.0	82		41.6	83		70-130	1		25
1,1-Dichloropropene	ND	50	42.3	85		45.9	92		70-130	8		25
Carbon tetrachloride	ND	50	46.2	92		47.1	94		70-130	2		25
Benzene	ND	50	35.2	70		35.4	71		70-130	1		25
Tertiary-Amyl Methyl Ether	ND	50	33.2	**66**	Q	33.4	**67**	Q	70-130	2		25
Tetrahydrofuran	ND	50	28.3	**57**	Q	29.7	**59**	Q	70-130	3		25
1,2-Dichloroethane	ND	50	32.7	**65**	Q	32.6	**65**	Q	70-130	0		25
Trichloroethene	ND	50	45.5	91		47.0	94		70-130	3		25
1,2-Dichloropropane	ND	50	44.2	88		44.6	89		70-130	1		25
Dibromomethane	ND	50	44.3	89		44.7	89		70-130	0		25
1,4-Dioxane	ND	1000	911	91		990	99		70-130	8		25
Bromodichloromethane	ND	50	42.7	85		44.0	88		70-130	3		25
4-Methyl-2-pentanone	ND	50	40.6	81		42.4	85		70-130	5		25
cis-1,3-Dichloropropene	ND	50	43.6	87		44.0	88		70-130	1		25
Toluene	ND	50	46.4	93		47.5	95		70-130	2		25
trans-1,3-Dichloropropene	ND	50	42.6	85		43.4	87		70-130	2		25
1,1,2-Trichloroethane	ND	50	45.4	91		46.3	93		70-130	2		25
2-Hexanone	ND	50	41.5	83		42.6	85		70-130	2		25
Tetrachloroethene	ND	50	42.8	86		44.1	88		70-130	2		25
1,3-Dichloropropane	ND	50	44.3	89		44.9	90		70-130	1		25
Dibromochloromethane	ND	50	42.3	84		43.0	86		70-130	2		25

Matrix Spike Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010
Lab Number: L0914566
Report Date: 11/04/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG385587-6 WG385587-7 QC Sample: L0914566-02 Client ID: MW-007A-101309												
1,2-Dibromoethane	ND	50	44.8	90		45.2	90		70-130	0		25
Chlorobenzene	ND	50	49.4	99		50.4	101		70-130	2		25
1,1,1,2-Tetrachloroethane	ND	50	46.7	93		48.0	96		70-130	3		25
Ethylbenzene	ND	50	50.3	101		51.0	102		70-130	1		25
p/m-Xylene	ND	100	102	102		104	104		70-130	2		25
o-Xylene	ND	50	50.5	101		51.4	103		70-130	2		25
Styrene	ND	50	48.9	98		49.5	99		70-130	1		25
Bromoform	ND	50	46.3	93		47.9	96		70-130	3		25
Isopropylbenzene	ND	50	50.6	101		51.4	103		70-130	2		25
1,1,2,2-Tetrachloroethane	ND	50	47.7	95		49.3	99		70-130	4		25
Bromobenzene	ND	50	48.8	98		49.1	98		70-130	0		25
1,2,3-Trichloropropane	ND	50	44.2	88		46.2	92		70-130	4		25
n-Propylbenzene	ND	50	50.6	101		51.6	103		70-130	2		25
o-Chlorotoluene	ND	50	51.2	102		51.8	104		70-130	2		25
1,3,5-Trimethylbenzene	ND	50	50.2	100		50.7	101		70-130	1		25
p-Chlorotoluene	ND	50	52.7	105		52.5	105		70-130	0		25
tert-Butylbenzene	ND	50	51.4	103		52.4	105		70-130	2		25
1,2,4-Trimethylbenzene	ND	50	51.1	102		51.6	103		70-130	1		25
sec-Butylbenzene	ND	50	52.2	104		52.8	106		70-130	2		25
1,3-Dichlorobenzene	ND	50	48.8	98		49.2	98		70-130	0		25
p-Isopropyltoluene	ND	50	52.2	104		51.9	104		70-130	0		25

Matrix Spike Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010
Lab Number: L0914566
Report Date: 11/04/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG385587-6 WG385587-7 QC Sample: L0914566-02 Client ID: MW-007A-101309												
1,4-Dichlorobenzene	ND	50	48.6	97		49.3	99		70-130	2		25
n-Butylbenzene	ND	50	51.7	103		51.4	103		70-130	0		25
1,2-Dibromo-3-chloropropane	ND	50	47.8	96		49.2	98		70-130	2		25
1,2-Dichlorobenzene	ND	50	48.6	97		49.3	99		70-130	2		25
1,2,4-Trichlorobenzene	ND	50	45.0	90		46.8	94		70-130	4		25
Hexachlorobutadiene	ND	50	47.9	96		49.5	99		70-130	3		25
Naphthalene	ND	50	45.8	92		47.6	95		70-130	3		25
1,2,3-Trichlorobenzene	ND	50	46.7	93		47.8	96		70-130	3		25

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	72		72		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	95		94		70-130
Toluene-d8	98		97		70-130

PCBS

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Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-01	Date Collected:	10/13/09 10:50
Client ID:	MW-004A-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	10/19/09 16:15
Analytical Date:	10/23/09 02:45		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.020	1
Aroclor 1221	ND		ug/l	0.020	1
Aroclor 1232	ND		ug/l	0.020	1
Aroclor 1242	ND		ug/l	0.020	1
Aroclor 1248	ND		ug/l	0.020	1
Aroclor 1254	ND		ug/l	0.020	1
Aroclor 1260	ND		ug/l	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	48		30-150
Decachlorobiphenyl	80		30-150
Tetrachloro-meta-Xylene	50		30-150
Decachlorobiphenyl	78		30-150

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-02	Date Collected:	10/13/09 10:50
Client ID:	MW-007A-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	10/19/09 16:15
Analytical Date:	10/23/09 03:16		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.020	1
Aroclor 1221	ND		ug/l	0.020	1
Aroclor 1232	ND		ug/l	0.020	1
Aroclor 1242	ND		ug/l	0.020	1
Aroclor 1248	ND		ug/l	0.020	1
Aroclor 1254	ND		ug/l	0.020	1
Aroclor 1260	ND		ug/l	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	46		30-150
Decachlorobiphenyl	68		30-150
Tetrachloro-meta-Xylene	46		30-150
Decachlorobiphenyl	66		30-150

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-03	Date Collected:	10/13/09 10:50
Client ID:	MW-007A-101309 REP	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	10/19/09 16:15
Analytical Date:	10/23/09 04:50		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.021	1
Aroclor 1221	ND		ug/l	0.021	1
Aroclor 1232	ND		ug/l	0.021	1
Aroclor 1242	ND		ug/l	0.021	1
Aroclor 1248	ND		ug/l	0.021	1
Aroclor 1254	ND		ug/l	0.021	1
Aroclor 1260	ND		ug/l	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	47		30-150
Decachlorobiphenyl	61		30-150
Tetrachloro-meta-Xylene	49		30-150
Decachlorobiphenyl	59		30-150

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-04	Date Collected:	10/13/09 12:15
Client ID:	MW-001-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	10/19/09 16:15
Analytical Date:	10/23/09 05:21		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.022	1
Aroclor 1221	ND		ug/l	0.022	1
Aroclor 1232	ND		ug/l	0.022	1
Aroclor 1242	ND		ug/l	0.022	1
Aroclor 1248	ND		ug/l	0.022	1
Aroclor 1254	ND		ug/l	0.022	1
Aroclor 1260	ND		ug/l	0.022	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	45		30-150
Decachlorobiphenyl	75		30-150
Tetrachloro-meta-Xylene	44		30-150
Decachlorobiphenyl	73		30-150

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-05	Date Collected:	10/13/09 12:35
Client ID:	MW-005-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	10/19/09 16:15
Analytical Date:	10/23/09 05:52		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.021	1
Aroclor 1221	ND		ug/l	0.021	1
Aroclor 1232	ND		ug/l	0.021	1
Aroclor 1242	ND		ug/l	0.021	1
Aroclor 1248	ND		ug/l	0.021	1
Aroclor 1254	ND		ug/l	0.021	1
Aroclor 1260	ND		ug/l	0.021	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	48		30-150
Decachlorobiphenyl	77		30-150
Tetrachloro-meta-Xylene	54		30-150
Decachlorobiphenyl	75		30-150

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-06	Date Collected:	10/13/09 14:40
Client ID:	MW-006-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	10/19/09 16:15
Analytical Date:	10/23/09 06:24		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.020	1
Aroclor 1221	ND		ug/l	0.020	1
Aroclor 1232	ND		ug/l	0.020	1
Aroclor 1242	ND		ug/l	0.020	1
Aroclor 1248	ND		ug/l	0.020	1
Aroclor 1254	ND		ug/l	0.020	1
Aroclor 1260	ND		ug/l	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	52		30-150
Decachlorobiphenyl	78		30-150
Tetrachloro-meta-Xylene	53		30-150
Decachlorobiphenyl	76		30-150

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-07	Date Collected:	10/13/09 15:20
Client ID:	MW-003-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	10/19/09 16:15
Analytical Date:	10/23/09 06:55		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.020	1
Aroclor 1221	ND		ug/l	0.020	1
Aroclor 1232	ND		ug/l	0.020	1
Aroclor 1242	ND		ug/l	0.020	1
Aroclor 1248	ND		ug/l	0.020	1
Aroclor 1254	ND		ug/l	0.020	1
Aroclor 1260	ND		ug/l	0.020	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	41		30-150
Decachlorobiphenyl	69		30-150
Tetrachloro-meta-Xylene	43		30-150
Decachlorobiphenyl	67		30-150

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-08	Date Collected:	10/13/09 12:15
Client ID:	MW-001-101309 EB	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082	Extraction Date:	10/19/09 16:15
Analytical Date:	10/23/09 07:26		
Analyst:	JR		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Mansfield Lab					
Aroclor 1016	ND		ug/l	0.024	1
Aroclor 1221	ND		ug/l	0.024	1
Aroclor 1232	ND		ug/l	0.024	1
Aroclor 1242	ND		ug/l	0.024	1
Aroclor 1248	ND		ug/l	0.024	1
Aroclor 1254	ND		ug/l	0.024	1
Aroclor 1260	ND		ug/l	0.024	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	52		30-150
Decachlorobiphenyl	68		30-150
Tetrachloro-meta-Xylene	56		30-150
Decachlorobiphenyl	67		30-150

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082
Analytical Date: 10/23/09 01:11
Analyst: JR

Extraction Method: EPA 3510C
Extraction Date: 10/19/09 16:15

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by GC - Mansfield Lab for sample(s): 01-08 Batch: WG384952-1				
Aroclor 1016	ND		ug/l	0.020
Aroclor 1221	ND		ug/l	0.020
Aroclor 1232	ND		ug/l	0.020
Aroclor 1242	ND		ug/l	0.020
Aroclor 1248	ND		ug/l	0.020
Aroclor 1254	ND		ug/l	0.020
Aroclor 1260	ND		ug/l	0.020

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Tetrachloro-meta-Xylene	53		30-150
Decachlorobiphenyl	93		30-150
Tetrachloro-meta-Xylene	55		30-150
Decachlorobiphenyl	92		30-150

Matrix Spike Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010
Lab Number: L0914566
Report Date: 11/04/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG384952-4 WG384952-5 QC Sample: L0914566-02 Client ID: MW-007A-101309												
Aroclor 1016	ND	1.03	0.737	72		0.752	75		40-140	4		50
Aroclor 1260	ND	1.03	0.881	86		0.824	82		40-140	5		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Decachlorobiphenyl	73		68		30-150
Tetrachloro-meta-Xylene	51		51		30-150
Decachlorobiphenyl	71		67		30-150
Tetrachloro-meta-Xylene	53		53		30-150

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010
Lab Number: L0914566
Report Date: 11/04/09

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01-08 Batch: WG384952-2 WG384952-3								
Aroclor 1016	74		67		40-140	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Tetrachloro-meta-Xylene	60		52		30-150
Decachlorobiphenyl	94		92		30-150
Tetrachloro-meta-Xylene	66		54		30-150
Decachlorobiphenyl	93		91		30-150

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01-08 Batch: WG384952-2 WG384952-3								
Aroclor 1260	85		85		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Tetrachloro-meta-Xylene	60		52		30-150
Decachlorobiphenyl	94		92		30-150
Tetrachloro-meta-Xylene	66		54		30-150
Decachlorobiphenyl	93		91		30-150

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METALS

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Project Name:	NEW BEDFORD HARBOR	**Lab Number:**	L0914566
Project Number:	TO-0010	**Report Date:**	11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-01	Date Collected:	10/13/09 10:50
Client ID:	MW-004A-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:27	CHELATION	1,6020A	LP
Chromium, Total	ND		mg/l	0.020	20	10/29/09 11:20	11/04/09 11:25	EPA 3020A	1,6020A	LR
Copper, Total	0.0024		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:27	CHELATION	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:27	CHELATION	1,6020A	LP

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-02 Date Collected: 10/13/09 10:50

Client ID: MW-007A-101309 Date Received: 10/13/09

Sample Location: NEW BEDFORD HARBOR Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:28	CHELATION	1,6020A	LP
Chromium, Total	ND		mg/l	0.020	20	10/29/09 11:20	11/04/09 11:28	EPA 3020A	1,6020A	LR
Copper, Total	0.0064		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:28	CHELATION	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:28	CHELATION	1,6020A	LP

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-03 Date Collected: 10/13/09 10:50

Client ID: MW-007A-101309 REP Date Received: 10/13/09

Sample Location: NEW BEDFORD HARBOR Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:31	CHELATION	1,6020A	LP
Chromium, Total	ND		mg/l	0.020	20	10/29/09 11:20	11/04/09 11:44	EPA 3020A	1,6020A	LR
Copper, Total	0.0068		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:31	CHELATION	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:31	CHELATION	1,6020A	LP

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-04 Date Collected: 10/13/09 12:15

Client ID: MW-001-101309 Date Received: 10/13/09

Sample Location: NEW BEDFORD HARBOR Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:34	CHELATION	1,6020A	LP
Chromium, Total	ND		mg/l	0.020	20	10/29/09 11:20	11/04/09 11:46	EPA 3020A	1,6020A	LR
Copper, Total	0.0032		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:34	CHELATION	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:34	CHELATION	1,6020A	LP

Project Name:	NEW BEDFORD HARBOR	**Lab Number:**	L0914566
Project Number:	TO-0010	**Report Date:**	11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-05	Date Collected:	10/13/09 12:35
Client ID:	MW-005-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:35	CHELATION	1,6020A	LP
Chromium, Total	ND		mg/l	0.020	20	10/29/09 11:20	11/04/09 11:49	EPA 3020A	1,6020A	LR
Copper, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:35	CHELATION	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:35	CHELATION	1,6020A	LP

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-06 Date Collected: 10/13/09 14:40

Client ID: MW-006-101309 Date Received: 10/13/09

Sample Location: NEW BEDFORD HARBOR Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:36	CHELATION	1,6020A	LP
Chromium, Total	ND		mg/l	0.020	20	10/29/09 11:20	11/04/09 11:52	EPA 3020A	1,6020A	LR
Copper, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:36	CHELATION	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:36	CHELATION	1,6020A	LP

Project Name:	NEW BEDFORD HARBOR	**Lab Number:**	L0914566
Project Number:	TO-0010	**Report Date:**	11/04/09

SAMPLE RESULTS

Lab ID:	L0914566-07	Date Collected:	10/13/09 15:20
Client ID:	MW-003-101309	Date Received:	10/13/09
Sample Location:	NEW BEDFORD HARBOR	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab										
Cadmium, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:36	CHELATION	1,6020A	LP
Chromium, Total	ND		mg/l	0.020	20	10/29/09 11:20	11/04/09 11:54	EPA 3020A	1,6020A	LR
Copper, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:36	CHELATION	1,6020A	LP
Lead, Total	ND		mg/l	0.0020	5	10/29/09 11:20	11/04/09 09:36	CHELATION	1,6020A	LP

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG386409-1									
Cadmium, Total	ND		mg/l	0.0002	5	10/29/09 11:20	11/04/09 09:25	1,6020A	LP
Copper, Total	ND		mg/l	0.0002	5	10/29/09 11:20	11/04/09 09:25	1,6020A	LP
Lead, Total	ND		mg/l	0.0002	5	10/29/09 11:20	11/04/09 09:25	1,6020A	LP

Prep Information

Digestion Method: CHELATION

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG386410-1									
Chromium, Total	ND		mg/l	0.020	20	10/29/09 11:20	11/04/09 11:20	1,6020A	LR

Prep Information

Digestion Method: EPA 3020A

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010
Lab Number: L0914566
Report Date: 11/04/09

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG386409-2								
Cadmium, Total	97		-		80-120	-		20
Copper, Total	98		-		80-120	-		20
Lead, Total	96		-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG386410-2								
Chromium, Total	92		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010
Lab Number: L0914566
Report Date: 11/04/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG386409-4 QC Sample: L0914566-02 Client ID: MW-007A-101309												
Cadmium, Total	ND	0.1	0.1009	101		-	-		75-125	-		20
Copper, Total	0.0064	0.1	0.1113	105		-	-		75-125	-		20
Lead, Total	ND	0.1	0.0980	98		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG386410-4 QC Sample: L0914566-02 Client ID: MW-007A-101309												
Chromium, Total	ND	1	0.985	98		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG386409-3 QC Sample: L0914566-02 Client ID: MW-007A-101309						
Cadmium, Total	ND	ND	mg/l	NC		20
Copper, Total	0.0064	0.0066	mg/l	3		20
Lead, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG386410-3 QC Sample: L0914566-02 Client ID: MW-007A-101309						
Chromium, Total	ND	ND	mg/l	NC		20

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MISCELLANEOUS

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Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-01
Client ID: MW-004A-101309
Sample Location: NEW BEDFORD HARBOR
Matrix: Water

Date Collected: 10/13/09 10:50
Date Received: 10/13/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	1.80		mg/l	1.00	1	-	10/20/09 21:59	30,2540D	ES

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-02
Client ID: MW-007A-101309
Sample Location: NEW BEDFORD HARBOR
Matrix: Water

Date Collected: 10/13/09 10:50
Date Received: 10/13/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	ND		mg/l	1.00	1	-	10/20/09 21:59	30,2540D	ES

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-03
Client ID: MW-007A-101309 REP
Sample Location: NEW BEDFORD HARBOR
Matrix: Water

Date Collected: 10/13/09 10:50
Date Received: 10/13/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	ND		mg/l	1.00	1	-	10/20/09 21:59	30,2540D	ES

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-04
Client ID: MW-001-101309
Sample Location: NEW BEDFORD HARBOR
Matrix: Water

Date Collected: 10/13/09 12:15
Date Received: 10/13/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	2.80		mg/l	1.00	1	-	10/20/09 21:59	30,2540D	ES

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-05
Client ID: MW-005-101309
Sample Location: NEW BEDFORD HARBOR
Matrix: Water

Date Collected: 10/13/09 12:35
Date Received: 10/13/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	4.00		mg/l	1.00	1	-	10/20/09 21:59	30,2540D	ES

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-06
Client ID: MW-006-101309
Sample Location: NEW BEDFORD HARBOR
Matrix: Water

Date Collected: 10/13/09 14:40
Date Received: 10/13/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	3.40		mg/l	1.00	1	-	10/20/09 21:59	30,2540D	ES

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

SAMPLE RESULTS

Lab ID: L0914566-07
Client ID: MW-003-101309
Sample Location: NEW BEDFORD HARBOR
Matrix: Water

Date Collected: 10/13/09 15:20
Date Received: 10/13/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab									
Solids, Total Suspended	33.5		mg/l	1.00	1	-	10/20/09 21:59	30,2540D	ES

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566

Project Number: TO-0010 **Report Date:** 11/04/09

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab for sample(s): 01-07 Batch: WG385225-1									
Solids, Total Suspended	ND		mg/l	1.00	1	-	10/20/09 21:59	30,2540D	ES

Lab Control Sample Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-07 Batch: WG385225-2								
Solids, Total Suspended	94		-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG385225-3 QC Sample: L0914566-02 Client ID: MW-007A-101309						
Solids, Total Suspended	ND	ND	mg/l	NC		20

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0914566-01A	Plastic 500ml unpreserved	B	7	7.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0914566-01B	Amber 1000ml unpreserved	B	7	7.5	Y	Absent	A2-PCB-8082(7)
L0914566-01C	Amber 1000ml unpreserved	B	7	7.5	Y	Absent	A2-PCB-8082(7)
L0914566-01D	Plastic 1000ml unpreserved	B	7	7.5	Y	Absent	A2-TSS-2540D(7)
L0914566-01E	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-01F	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-01G	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-02A	Plastic 500ml unpreserved	A	7	11.6	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0914566-02B	Amber 1000ml unpreserved	A	7	11.6	Y	Absent	A2-PCB-8082(7)
L0914566-02C	Amber 1000ml unpreserved	A	7	11.6	Y	Absent	A2-PCB-8082(7)
L0914566-02D	Plastic 1000ml unpreserved	A	7	11.6	Y	Absent	A2-TSS-2540D(7)
L0914566-02E	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-02F	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-02G	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-02H	Amber 1000ml unpreserved	B	7	7.5	Y	Absent	A2-PCB-8082(7)
L0914566-02I	Amber 1000ml unpreserved	A	7	11.6	Y	Absent	A2-PCB-8082(7)
L0914566-02J	Vial HCl preserved	A	N/A	11.6	Y	Absent	A2-VOC-8260(14)
L0914566-02K	Vial HCl preserved	A	N/A	11.6	Y	Absent	A2-VOC-8260(14)
L0914566-02L	Vial HCl preserved	A	N/A	11.6	Y	Absent	A2-VOC-8260(14)
L0914566-02M	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-02N	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-02O	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-03A	Plastic 500ml unpreserved	A	7	11.6	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0914566-03B	Amber 1000ml unpreserved	A	7	11.6	Y	Absent	A2-PCB-8082(7)
L0914566-03C	Amber 1000ml unpreserved	A	7	11.6	Y	Absent	A2-PCB-8082(7)

*Hold days indicated by values in parentheses

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0914566-03D	Plastic 1000ml unpreserved	A	7	11.6	Y	Absent	A2-TSS-2540D(7)
L0914566-03E	Vial HCl preserved	A	N/A	11.6	Y	Absent	A2-VOC-8260(14)
L0914566-03F	Vial HCl preserved	A	N/A	11.6	Y	Absent	A2-VOC-8260(14)
L0914566-03G	Vial HCl preserved	A	N/A	11.6	Y	Absent	A2-VOC-8260(14)
L0914566-04A	Plastic 500ml unpreserved	A	7	11.6	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0914566-04B	Amber 1000ml unpreserved	A	7	11.6	Y	Absent	A2-PCB-8082(7)
L0914566-04C	Amber 1000ml unpreserved	A	7	11.6	Y	Absent	A2-PCB-8082(7)
L0914566-04D	Plastic 1000ml unpreserved	A	7	11.6	Y	Absent	A2-TSS-2540D(7)
L0914566-04E	Vial HCl preserved	A	N/A	11.6	Y	Absent	A2-VOC-8260(14)
L0914566-04F	Vial HCl preserved	A	N/A	11.6	Y	Absent	A2-VOC-8260(14)
L0914566-04G	Vial HCl preserved	A	N/A	11.6	Y	Absent	A2-VOC-8260(14)
L0914566-05A	Plastic 500ml unpreserved	B	7	7.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0914566-05B	Amber 1000ml unpreserved	B	7	7.5	Y	Absent	A2-PCB-8082(7)
L0914566-05C	Amber 1000ml unpreserved	B	7	7.5	Y	Absent	A2-PCB-8082(7)
L0914566-05D	Plastic 1000ml unpreserved	B	7	7.5	Y	Absent	A2-TSS-2540D(7)
L0914566-05E	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-05F	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-05G	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-06A	Plastic 500ml unpreserved	B	7	7.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0914566-06B	Amber 1000ml unpreserved	A	7	11.6	Y	Absent	A2-PCB-8082(7)
L0914566-06C	Amber 1000ml unpreserved	A	7	11.6	Y	Absent	A2-PCB-8082(7)
L0914566-06D	Plastic 1000ml unpreserved	A	7	11.6	Y	Absent	A2-TSS-2540D(7)
L0914566-06E	Vial HCl preserved	A	N/A	11.6	Y	Absent	A2-VOC-8260(14)
L0914566-06F	Vial HCl preserved	A	N/A	11.6	Y	Absent	A2-VOC-8260(14)
L0914566-06G	Vial HCl preserved	A	N/A	11.6	Y	Absent	A2-VOC-8260(14)
L0914566-07A	Plastic 500ml unpreserved	B	7	7.5	Y	Absent	A2-PB-6020T(180),A2-CR-6020T(180),A2-CD-6020T(180),A2-PREP-3020(180),A2-CU-6020T(180)
L0914566-07B	Amber 1000ml unpreserved	B	7	7.5	Y	Absent	A2-PCB-8082(7)
L0914566-07C	Amber 1000ml unpreserved	B	7	7.5	Y	Absent	A2-PCB-8082(7)
L0914566-07D	Plastic 1000ml unpreserved	B	7	7.5	Y	Absent	A2-TSS-2540D(7)
L0914566-07E	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)

*Hold days indicated by values in parentheses

Project Name: NEW BEDFORD HARBOR
Project Number: TO-0010

Lab Number: L0914566
Report Date: 11/04/09

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0914566-07F	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-07G	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-08B	Amber 1000ml unpreserved	B	7	7.5	Y	Absent	A2-PCB-8082(7)
L0914566-08C	Amber 1000ml unpreserved	B	7	7.5	Y	Absent	A2-PCB-8082(7)
L0914566-08E	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-08F	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-08G	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-09A	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)
L0914566-09B	Vial HCl preserved	B	N/A	7.5	Y	Absent	A2-VOC-8260(14)

Container Comments

L0914566-02D USED ENTIRE SAMPLE

*Hold days indicated by values in parentheses

Project Name:	NEW BEDFORD HARBOR	**Lab Number:**	L0914566
Project Number:	TO-0010	**Report Date:**	11/04/09

GLOSSARY

Acronyms

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

Terms

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

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report

Project Name: NEW BEDFORD HARBOR **Lab Number:** L0914566
Project Number: TO-0010 **Report Date:** 11/04/09

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

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

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

Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield Facility

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

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. ***NELAP Accredited.***

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via LA-DEQ.***

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

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

U.S. Army Corps of Engineers

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CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL

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

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

Date Rec'd in Lab:

ALPHA Job #: L0914566

Client Information

Client: Woods Hole Group

Address: 81 Technology Park Drive, E. Falmouth MA 02536

Phone: 508-540-8080

Fax: 508-540-1001

Email: dwalsh@whgrp.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBH Water Quality Monitoring

Project Location: New Bedford Harbor

Project #: TO-0010

Project Manager: Dave Walsh

ALPHA Quote #:

Turn-Around Time

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

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
Fed	

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Level III data report & Project-specific EPD

SAMPLE HANDLING

Filtration: ☐ Done ☒ Not needed ☐ Lab to do

Preservation: ☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCB Aroclors	Metals	TSS	VOC	Sample Specific Comments	Total # Bottles
L0914566-1	MW-004A-101309	10/13/09	10:50	GW	DCK	X	X	X	X		
-2	MW-007A-101309		10:50		MAM	X	X	X	X		
-3	MW-007A-101309 REP		10:50		MAM	X	X	X	X		
-2	MW-007A-101309 MS		10:50		MAM	X			X		
↓	MW-007A-101309 MSD		10:50		MAM	X			X		
-4	MW-001-101309		12:15		MAM	X	X	X	X		
5	MW-005-101309		1235		DCK	X	X	X	X		
6	MW-006-101309		1440		MAM	X	X	X	X		
7	MW-003-101309		15:20		DCK	X	X	X	X		

10/13/09

10/13/09

Container Type	A	P	P	V
Preservative	A	A	A	B

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	10/13/09 1720		10/13/09 1720

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

FORM NO: 01-01 (rev. 30-JUL-07)

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CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL

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

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

Date Rec'd in Lab:

ALPHA Job #: L0914566

Client Information

Client: Woods Hole Group

Address: See page 1

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NBH Water Qual. Month

Project Location: See page 1

Project #:

Project Manager:

ALPHA Quote #:

Turn-Around Time

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

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: PCB Aroclor | Metals | TSS | VOC

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCB Aroclor	Metals	TSS	VOC	Sample Specific Comments	TOTAL # BOTTLES
L0914566-8	MW-001-101309EB	10/13/09	1215	GW	MAm	X	X		X		
9	MW-001-101309TB	10/13/09	1215	GW	MAm				X		

10/13/09

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Container Type			
Preservative			

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/13/09 17:13	[signature]	10/13/09 1720

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

FORM NO: 01-01 (rev. 30-JUL-07)