

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of facility/site :		Facility/site address:	
Location of facility/site : longitude:_____ latitude:_____	Facility SIC code(s):	Street:	
b) Name of facility/site owner :		Town:	
Email address of owner:	State:	Zip:	County:
Telephone no.of facility/site owner :			
Fax no. of facility/site owner :	Owner is (check one): 1. Federal____ 2. State/Tribal____ 3. Private____ 4. other, if so, describe:		
Address of owner (if different from site):			
Street:			
Town:	State:	Zip:	County:
c) Legal name of operator :	Operator telephone no:		
	Operator fax no.:		Operator email:
Operator contact name and title:			
Address of operator (if different from owner):	Street:		
Town:	State:	Zip:	County:
d) Check “yes” or “no” for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No___, if “yes,” number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No___, if “yes,” date and tracking #: 3. Is the discharge a “new discharge” as defined by 40 CFR 122.2? Yes___ No___ 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes__ No__			

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes___ No___ If “yes,” please list: 1. site identification # assigned by the state of NH or MA: 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number:	f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y___ N___, if Y, number: 2. phase I or II construction storm water general permit? Y___ N___, if Y, number: 3. individual NPDES permit? Y___ N___, if Y, number: 4. any other water quality related permit? Y___ N___, if Y, number:
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:			
b) Provide the following information about each discharge:	<table border="1"> <tr> <td style="vertical-align: top;">1) Number of discharge points:</td> <td style="vertical-align: top;"> 2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow_____ Average flow_____ Is maximum flow a design value? Y___ N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. </td> </tr> </table>	1) Number of discharge points:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow_____ Average flow_____ Is maximum flow a design value ? Y___ N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.
1) Number of discharge points:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow_____ Average flow_____ Is maximum flow a design value ? Y___ N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.		
3) Latitude and longitude of each discharge within 100 feet: pt.1:long._____ lat._____; pt.2: long._____ lat._____; pt.3: long._____ lat._____; pt.4:long._____ lat._____; pt.5: long._____ lat._____; pt.6:long._____ lat._____; pt.7: long._____ lat._____; pt.8:long._____ lat._____; etc.			
4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent_____ or seasonal_____? Is discharge ongoing Yes _____ No _____?___		
c) Expected dates of discharge (mm/dd/yy): start_____ end_____			
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).			

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide ⁵ (1,2- Dibromo-methane)										
11. Methyl-tert-Butyl Ether (MtBE)										
12. tert-Butyl Alcohol (TBA)										
13. tert-Amyl Methyl Ether (TAME)										
14. Naphthalene										
15. Carbon Tetra-chloride										
16. 1,4 Dichlorobenzene										
17. 1,2 Dichlorobenzene										
18. 1,3 Dichlorobenzene										
19. 1,1 Dichloroethane										
20. 1,2 Dichloroethane										
21. 1,1 Dichloroethylene										
22. cis-1,2 Dichloro-ethylene										
23. Dichloromethane (Methylene Chloride)										
24. Tetrachloroethylene										

⁵EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane										
26. 1,1,2 Trichloroethane										
27. Trichloroethylene										
28. Vinyl Chloride										
29. Acetone										
30. 1,4 Dioxane										
31. Total Phenols										
32. Pentachlorophenol										
33. Total Phthalates ⁶ (Phthalate esthers)										
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]										
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)										
a. Benzo(a) Anthracene										
b. Benzo(a) Pyrene										
c. Benzo(b)Fluoranthene										
d. Benzo(k) Fluoranthene										
e. Chrysene										

⁶The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min- imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene										
g. Indeno(1,2,3-cd) Pyrene										
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)										
h. Acenaphthene										
i. Acenaphthylene										
j. Anthracene										
k. Benzo(ghi) Perylene										
l. Fluoranthene										
m. Fluorene										
n. Naphthalene-										
o. Phenanthrene										
p. Pyrene										
37. Total Polychlorinated Biphenyls (PCBs)										
38. Antimony										
39. Arsenic										
40. Cadmium										
41. Chromium III										
42. Chromium VI										

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper										
44. Lead										
45. Mercury										
46. Nickel										
47. Selenium										
48. Silver										
49. Zinc										
50. Iron										
Other (describe):										

c) For discharges where **metals** are believed present, please fill out the following:

<i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y____ N____	If yes, which metals?
<i>Step 2:</i> For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: _____ DF: _____	Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y____ N____ If "Yes," list which metals:

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

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							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids										
2. Total Residual Chlorine										
3. Total Petroleum Hydrocarbons										
4. Cyanide										
5. Benzene										
6. Toluene										
7. Ethylbenzene										
8. (m,p,o) Xylenes										
9. Total BTEX ⁴										

⁴BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

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

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator	Equalization tanks	Bag filter	GAC filter
	Chlorination	Dechlorination	Other (please describe):			
c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system: Average flow rate of discharge _____ Maximum flow rate of treatment system _____ Design flow rate of treatment system _____						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets):						

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

a) Identify the discharge pathway:	Direct _____	Within facility__	Storm drain_____	River/brook_____	Wetlands _____	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:						
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.						
d) Provide the state water quality classification of the receiving water _____,						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water _____ cfs Please attach any calculation sheets used to support stream flow and dilution calculations.						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes _____ No _____ If yes, for which pollutant(s)? Is there a TMDL? Yes _____ No _____ If yes, for which pollutant(s)?						

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes ☒ No ☐ Has any consultation with the federal services been completed? Yes ☒ No ☐ or is consultation underway? Yes ☐ No ☐ What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one): a "no jeopardy" opinion? ☒ or written concurrence ☐ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?
b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge? Yes ☐ No ☒ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes ☐ No ☒

7. Supplemental information. :

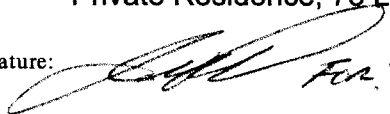
Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

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

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

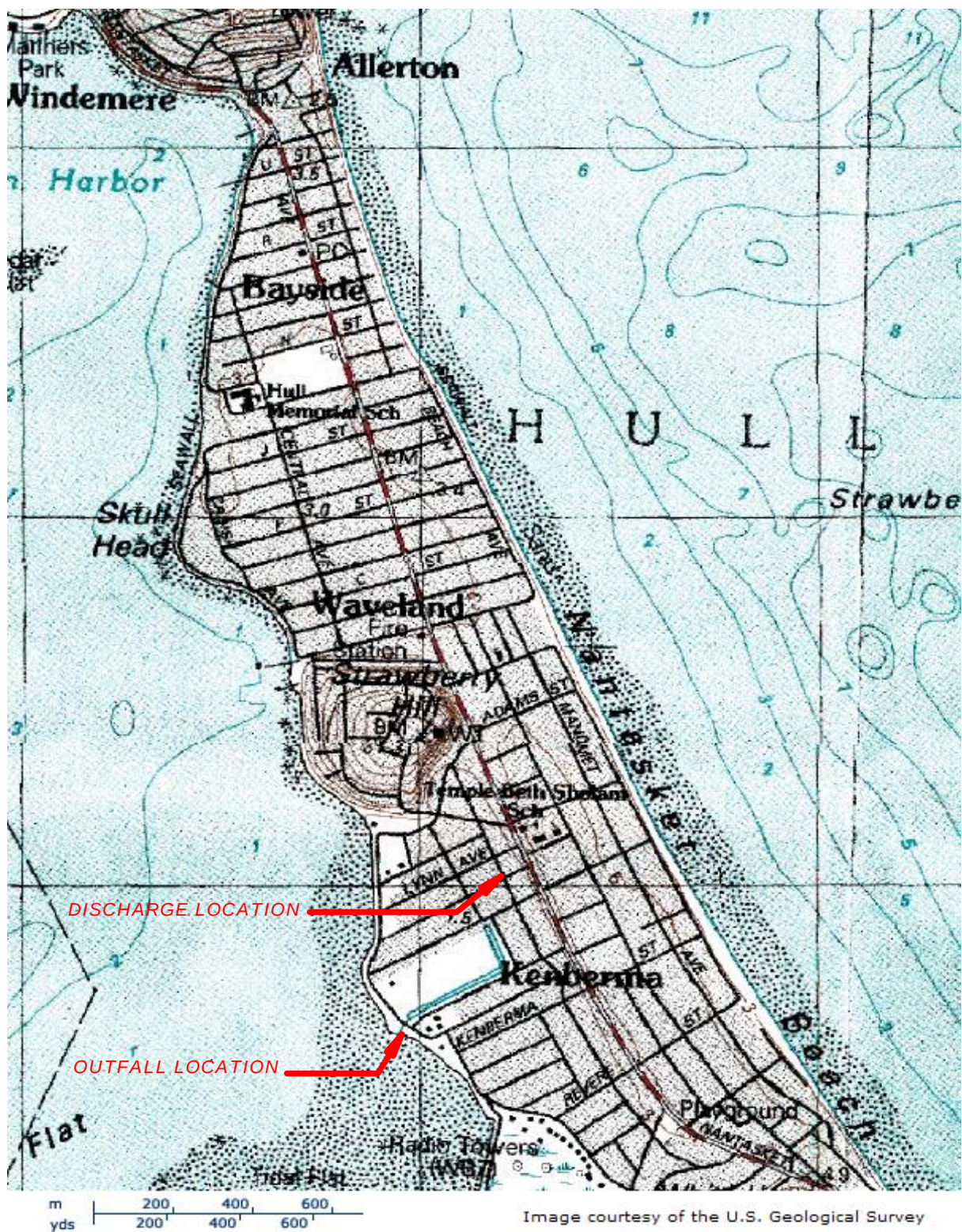
Facility/Site Name: Private Residence, 78 Lynn Avenue, Hull, Massachusetts

Operator signature:



Title: President, Connecticut Tank Removal, Inc.

Date: 03/12/10



Discharge and Outfall Locations

Private Residence
78 Lynn Avenue
Hull, Massachusetts

SCALE AS SHOWN

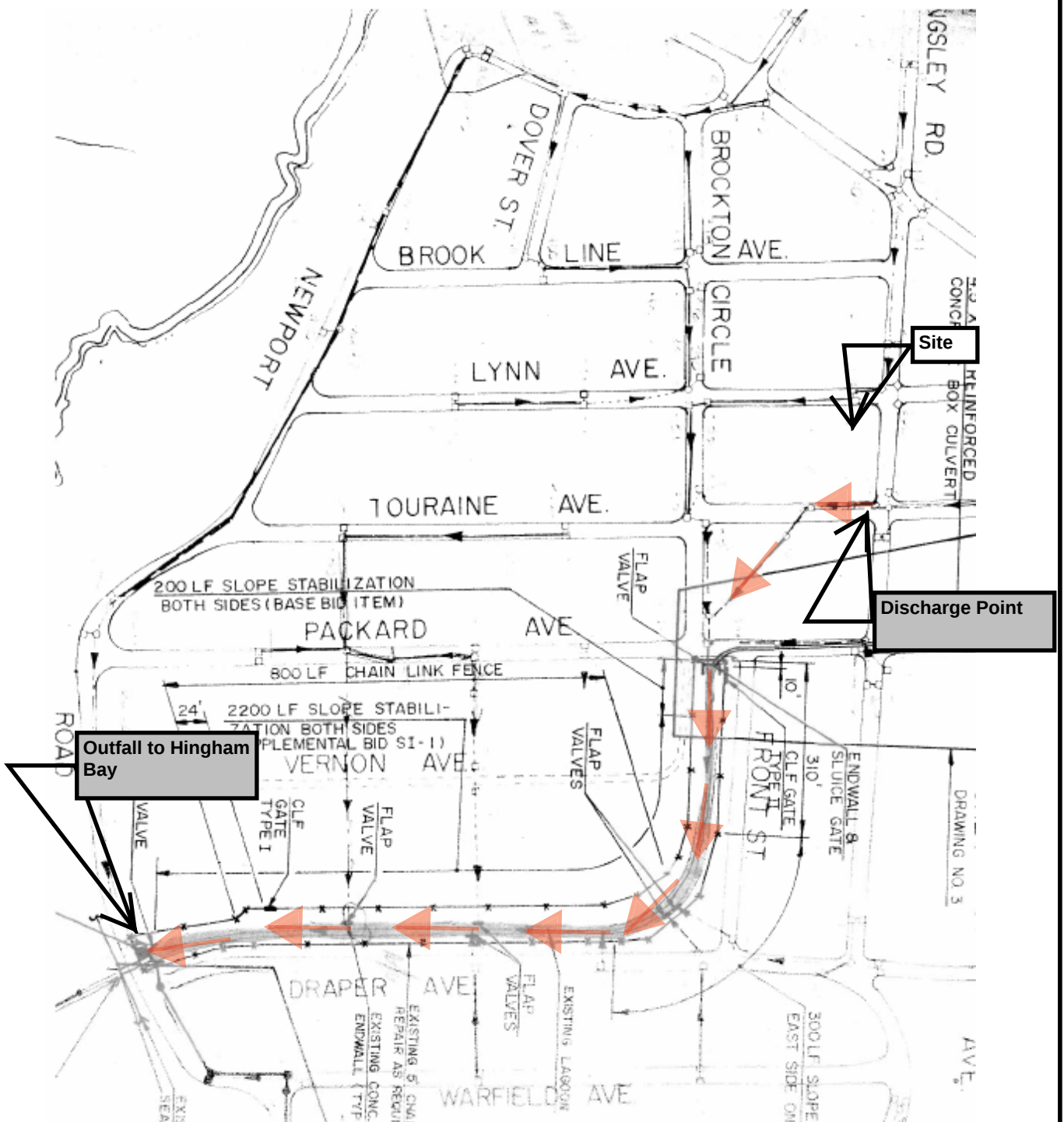
February 2010

VERTEX PROJ. NO. 15510

VERTEX

Environmental Services, Inc.

FIGURE NO. 1



Remote Discharge Path

Private Residence
78 Lynn Avenue
Hull, Massachusetts

Source: Town of Hull DPW
Stormwater System Plan

March 2010

VERTEX PROJ. NO. 15510

VERTEX

Environmental Services, Inc.

FIGURE NO. 2

MA DEP - Bureau of Waste Site Cleanup

Site Scoring Map: 500 feet & 0.5 Mile Radii

SITE NAME:

Private Residence
78 Lynn Avenue
Hull, MA 02045
NAD83 Coordinates 893062 251364

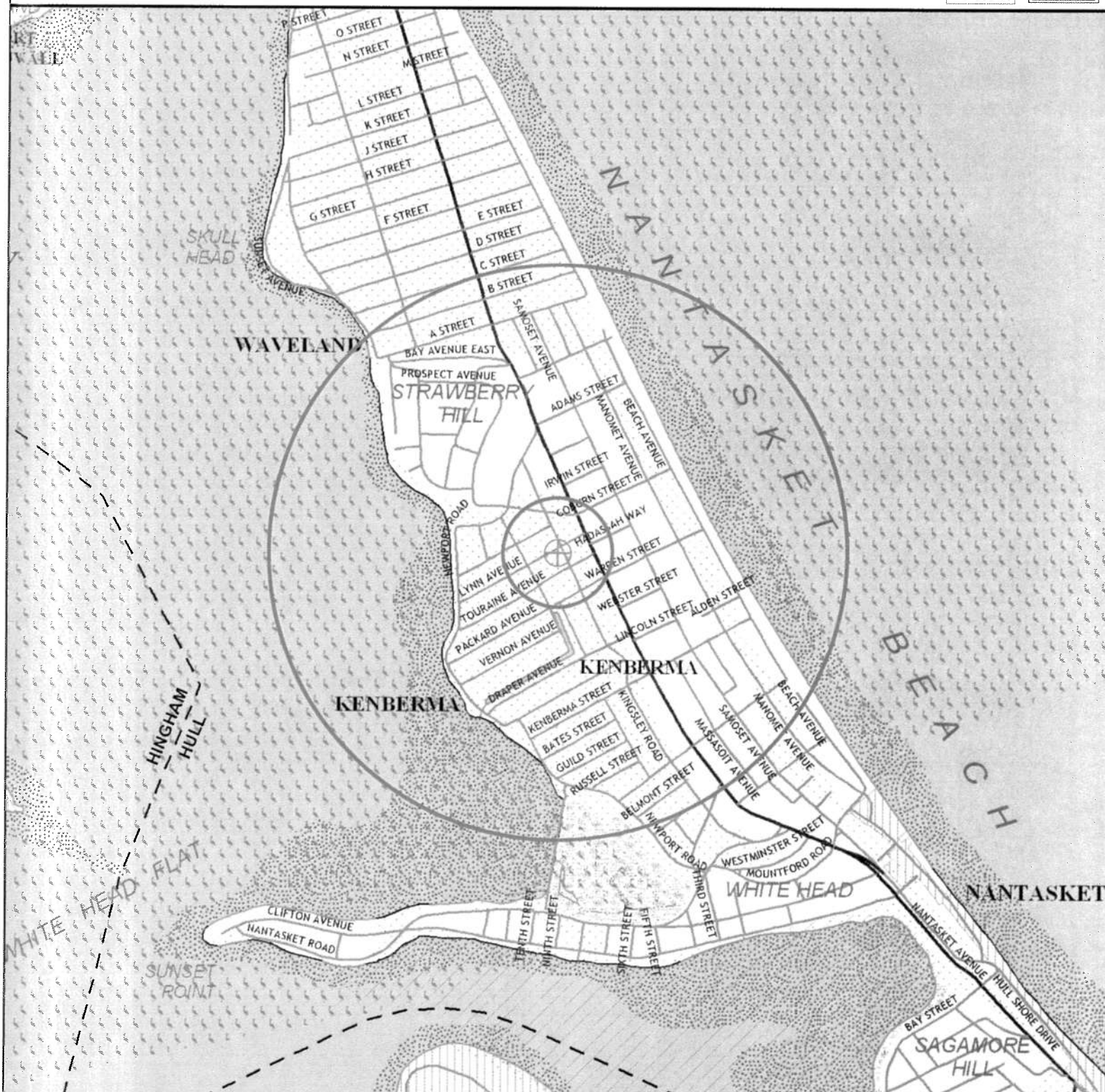


The information shown on this map is the best available at the date of printing. Please refer to the data source descriptions document.



Massachusetts Executive Office of Energy & Environmental Affairs

Office of Geographic and Environmental Information



Roads: Limited Access, Divided, Major Road, Connector, Street, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, Sub; Streams: Perennial, Intermittent, Man Made Shore, Dams

Potentially Productive Aquifers: Medium, High Yield

Non-Potential Drinking Water Source Area: Medium, High Yield

EPA Sole Source Aquifer; FEMA 100-year floodplain

Public Water Supplies: Ground, Surface, Non Community

Approved Zone 2; IWPA; Surface Water Supply Zone A

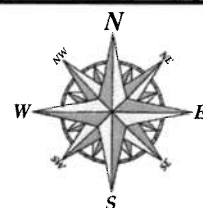
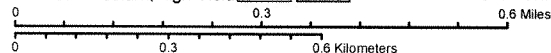
Hydrography: Open Water, Reservoir, Tidal Flat

Wetlands: Fresh, Salt, NHESP Wetlands Habitat

Cranberry Bog; Protected Open Space; ACEC

DEP Permitted Solid Waste Landfills; Certified Vernal Pools

SCALE 1:15,000

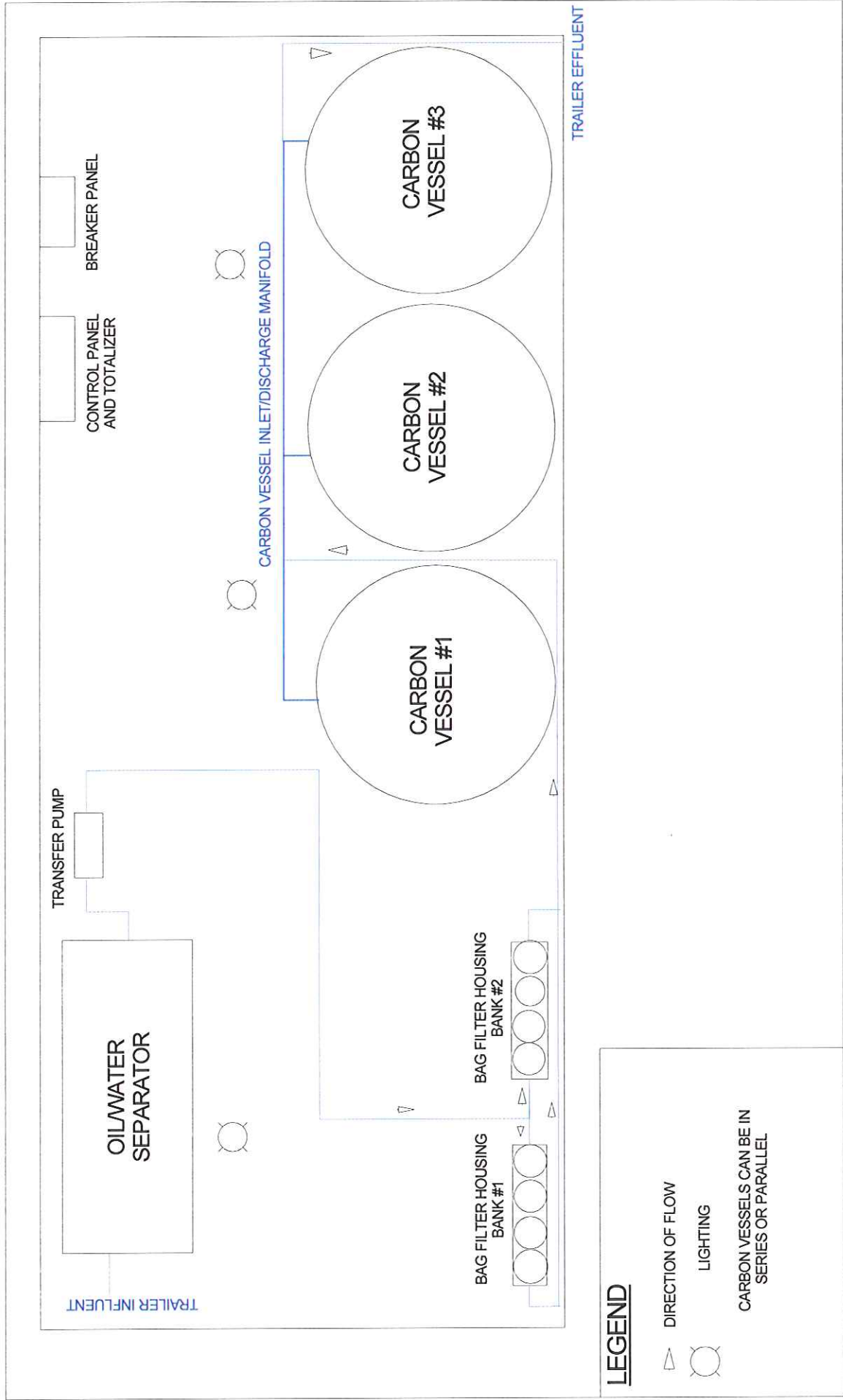


February 4, 2010

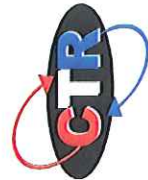
Recovery Trailer #9

- Groundwater treatment system enclosed inside of a twenty-eight foot semi trailer capable of flows up to 150 gallons per minute
- Oil/water separator for LNAPL Hydrocarbon separation
- Centrifugal pump with level control and high level alarm
- (4) Duplex Bag Filters for removal of suspended solids
- (3) 1,000lb liquid phase carbon vessels plumbed for parallel or series operation
- Flow meter with instant and total flow readings
- Heaters for winter operation
- Auto-Dialer for 24-Hour operation (if necessary)





GROUNDWATER TREATMENT SYSTEM RECOVERY TRAILER #9 50-150 GPM



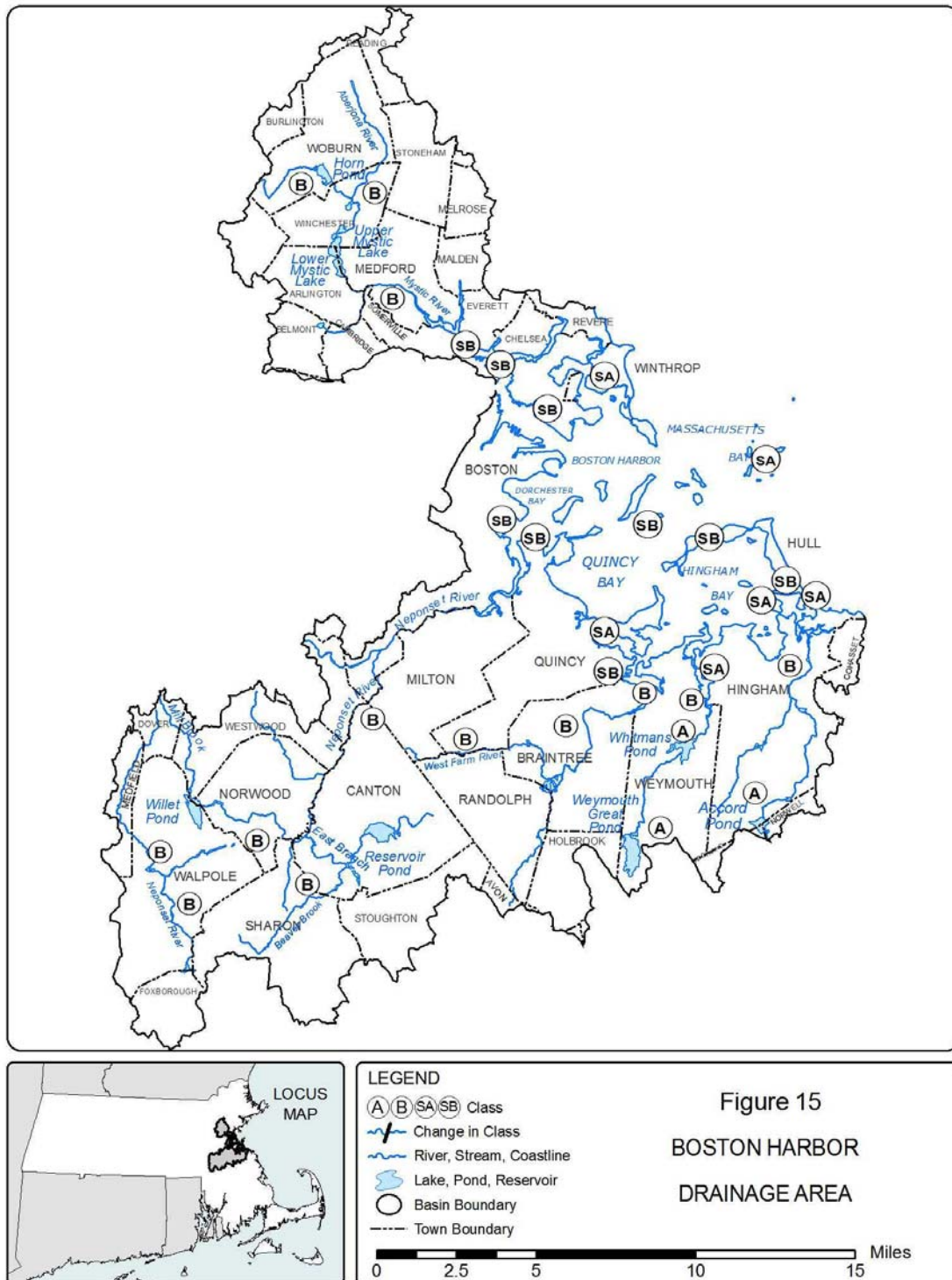
PROJECT DESIGNER	
TIM FIRLA	
PROJECT CONTACT	
TIM FIRLA	
CTR PROJECT #	DATE

DRAWING NOT TO SCALE

Massachusetts Category 5 Waters “Waters requiring a TMDL”

NAME	SEGMENT ID	DESCRIPTION	SIZE	POLLUTANT NEEDING TMDL [EPA APPROVAL DATE-DOCUMENT CONTROL NUMBER]
West River (5131800)	MA51-12_2008	Upton WWTP, Upton to confluence with Blackstone River, Uxbridge.	9.3 miles	-Metals -Nutrients
West River Pond (51177)	MA51177_2008	Uxbridge	33.8 acres	-pH -Organic enrichment/Low DO -Salinity/TDS/chlorides -Noxious aquatic plants -(Exotic species*)
Woodbury Pond (51185)	MA51185_2008	Sutton	5.0 acres	-Noxious aquatic plants -(Exotic species*)
Woolshop Pond (51186)	MA51186_2008	Millbury	4.9 acres	-Noxious aquatic plants -Turbidity -(Exotic species*)
Boston Harbor				
Boston Harbor (70901)	MA70-01_2008	The area extending into Massachusetts Bay from the line between Fort Dawes on Deer Island to The Graves, and from The Graves south to Point Allerton; across Hull and West guts; across the mouths of Quincy and Dorchester bays, Boston Inner Harbor and Winthrop Bay (including President Roads and Nantasket Roads).	24.2 sq mi	-Priority organics -Pathogens
Boston Inner Harbor (70902)	MA70-02_2008	From the Mystic and Chelsea rivers, Chelsea/Boston, to the line between Governors Island and Fort Independence, East Boston/Boston (including Fort Point, Reserved and Little Mystic channels).	2.5 sq mi	-Priority organics -Pathogens
Dorchester Bay (70903)	MA70-03_2008	From the mouth of the Neponset River, Boston/Quincy to the line between Head Island and the north side of Thompson Island and the line between the south point of Thompson Island, Boston and Chapel Rocks, Quincy.	3.5 sq mi	-Priority organics -Pathogens -Suspended solids -Turbidity
Hingham Bay (70905)	MA70-06_2008	The area north of the mouth of the Weymouth Fore River extending on the west along the line between Nut Island and the south point of West Head, and on the east side along a line from Prince Head just east of Pig Rock to the mouth of the Weymouth Fore River (midway between Lower Neck and Manot Beach), Quincy.	1.0 sq mi	-Pathogens
Hingham Bay (70905)	MA70-07_2008	The area defined between Peddocks Island and Windmill Point; from Windmill Point southeast to Burnkin Island; from Burnkin Island southeast to Sunset Point; from Sunset Point across the mouth of the Weir River to Worlds End; from Worlds End across the mouth of Hingham Harbor to Crow Point; from Beach Lane, Hingham across the mouth of the Weymouth Back River to Lower Neck; and from Lower Neck midway across the mouth of the Weymouth Fore River.	4.8 sq mi	-Pathogens
Hingham Harbor (70906)	MA70-08_2008	Hingham Harbor inside a line from Crows Point to Worlds End, Hingham.	1.1 sq mi	-Pathogens
Hull Bay (70907)	MA70-09_2008	The area defined east of a line from Windmill Point to Bumpkin Island and from Bumpkin Island to Sunset Point, Hull.	2.5 sq mi	-Pathogens
Pleasure Bay (70909)	MA70-11_2008	A semi-enclosed bay, the flow restricted through two channels between Castle and Head islands, Boston	0.22 sq mi	-Priority organics -Pathogens
Quincy Bay (70904)	MA70-04_2008	From Bromfield Street near the Wallaston Yacht Club, northeast to N42.2781 W70.9941, southeast to N42.2735 W70.9678, and south to Newton Street on the northerly shore of Houghs Neck, Quincy.	1.2 sq mi	-Priority organics -Pathogens

4.06: continued



4.06: continued

TABLE 15
BOSTON HARBOR DRAINAGE AREA

<u>BOUNDARY</u>	<u>MILE POINT</u>	<u>CLASS</u>	<u>QUALIFIERS</u>
Inside a line from the southerly tip of Deer Island to Boston Lighthouse to Point Allerton in Hull except as denoted below	-	SB	Shellfishing
Boston Inner Harbor westerly inside a line from the southern tip of Governors Island to Fort Independence including the Charles, Mystic, Island End and Chelsea (Creek) Rivers and Reserved, Fort Point and Little Mystic Channels	-	SB(CSO)	
Dorchester Bay	-	SB	Shellfishing CSO
Quincy Bay in Quincy from Bromfield Street near the Wallaston Yacht Club northerly to bouy "C 1" southeasterly to the "Willows", sometimes known as Lord's Point on the northerly shore of Houghs Neck in Quincy	-	SA	Shellfishing
Remainder of Quincy Bay	-	SB	Shellfishing
Hingham Harbor in Hingham inside a line from Crows Point to Worlds End Promontery	-	SA	Shellfishing
Hull Bay	-	SB	Shellfishing
Other coastal and marine waters in the Boston Harbor Drainage Area	-	SB	Shellfishing
<u>Aberjona River</u>			
Source to outlet Mishawum Lake	118.4 - 15.1	B	Warm Water
Outlet Mishawum Lake to inlet Mystic Lake	15.1 - 9.2	B	Warm Water
Upper Mystic Lake	9.2 - 8.1	B	Warm Water
Lower Mystic Lake	8.1 - 7.4	B	Warm Water
<u>Mystic River</u>			
Outlet Lower Mystic Lake to Amelia Earhart Dam	7.4 - 2.0	B	Warm Water CSO
Amelia Earhart Dam to confluence with the Chelsea River	2.0 - 0.0	SB(CSO)	Shellfishing



ANALYTICAL REPORT

Lab Number:	L1002382
Client:	Vertex Environmental Services, Inc. 400 Libbey Industrial Parkway Weymouth, MA 02189
ATTN:	Jessica Fox
Project Name:	78 LYNN AVE.
Project Number:	15510
Report Date:	02/19/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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



Project Name: 78 LYNN AVE.
Project Number: 15510

Lab Number: L1002382
Report Date: 02/19/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1002382-01	AE-106	HULL, MA	02/17/10 14:00
L1002382-02	VES-2	HULL, MA	02/17/10 15:20
L1002382-03	TRIP BLANK	HULL, MA	02/17/10 00:00

Project Name: 78 LYNN AVE.
Project Number: 15510

Lab Number: L1002382
Report Date: 02/19/10

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.

Report Submission

The analyses of Total Suspended Solids and Total Cyanide were subcontracted. A copy of the laboratory report is included as an addendum.

Sample Receipt

A Trip Blank was received in the laboratory but not listed on the Chain of Custody. At the client's request, the Trip Blank was not analyzed.

Project Name: 78 LYNN AVE.
Project Number: 15510

Lab Number: L1002382
Report Date: 02/19/10

Case Narrative (continued)

Volatile Organics

L1002382-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Semivolatile Organics by SIM

L1002382-01 has elevated detection limits due to the dilution required by the sample matrix.

Metals

The WG401229-3 Laboratory Duplicate RPD, associated with L1002382-01, is above the acceptance criteria for Zinc (41%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

Chromium, Hexavalent

L1002382-01 has an elevated detection limit due to the dilution required by the sample matrix.

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:



Title: Technical Director/Representative

Date: 02/19/10

ORGANICS

VOLATILES

Project Name: 78 LYNN AVE.**Lab Number:** L1002382**Project Number:** 15510**Report Date:** 02/19/10**SAMPLE RESULTS**

Lab ID: L1002382-01
Client ID: AE-106
Sample Location: HULL, MA
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 02/18/10 10:28
Analyst: MM

Date Collected: 02/17/10 14:00
Date Received: 02/17/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
Methylene chloride	ND		ug/l	15	5
1,1-Dichloroethane	ND		ug/l	3.8	5
Carbon tetrachloride	ND		ug/l	2.5	5
1,1,2-Trichloroethane	ND		ug/l	3.8	5
Tetrachloroethene	ND		ug/l	2.5	5
1,2-Dichloroethane	ND		ug/l	2.5	5
1,1,1-Trichloroethane	ND		ug/l	2.5	5
Benzene	82		ug/l	2.5	5
Toluene	180		ug/l	3.8	5
Ethylbenzene	110		ug/l	2.5	5
Vinyl chloride	ND		ug/l	5.0	5
1,1-Dichloroethene	ND		ug/l	2.5	5
Trichloroethene	ND		ug/l	2.5	5
1,2-Dichlorobenzene	ND		ug/l	12	5
1,3-Dichlorobenzene	ND		ug/l	12	5
1,4-Dichlorobenzene	ND		ug/l	12	5
Methyl tert butyl ether	ND		ug/l	5.0	5
p/m-Xylene	330		ug/l	5.0	5
o-Xylene	230		ug/l	5.0	5
cis-1,2-Dichloroethene	ND		ug/l	2.5	5
Acetone	ND		ug/l	25	5
1,2-Dibromoethane	ND		ug/l	10	5
Naphthalene	190		ug/l	12	5
Tert-Butyl Alcohol	ND		ug/l	150	5
Tertiary-Amyl Methyl Ether	ND		ug/l	10	5
1,4-Dioxane	ND		ug/l	1200	5

Project Name: 78 LYNN AVE.**Lab Number:** L1002382**Project Number:** 15510**Report Date:** 02/19/10**SAMPLE RESULTS**

Lab ID: L1002382-01

Date Collected: 02/17/10 14:00

Client ID: AE-106

Date Received: 02/17/10

Sample Location: HULL, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	93		70-130

Project Name: 78 LYNN AVE.**Lab Number:** L1002382**Project Number:** 15510**Report Date:** 02/19/10**SAMPLE RESULTS**

Lab ID: L1002382-01
Client ID: AE-106
Sample Location: HULL, MA
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 02/19/10 11:27
Analyst: JB

Date Collected: 02/17/10 14:00
Date Received: 02/17/10
Field Prep: Not Specified
Extraction Date: 02/19/10 08:30

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

Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260B
 Analytical Date: 02/18/10 09:20
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG401219-3				
Methylene chloride	ND		ug/l	3.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260B
 Analytical Date: 02/18/10 09:20
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG401219-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,4-Dichlorobutane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
Vinyl acetate	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Ethyl methacrylate	ND		ug/l	5.0
Acrylonitrile	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.50

Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260B
 Analytical Date: 02/18/10 09:20
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG401219-3				
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Tert-Butyl Alcohol	ND		ug/l	30
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	105		70-130

Project Name: 78 LYNN AVE.**Lab Number:** L1002382**Project Number:** 15510**Report Date:** 02/19/10**Method Blank Analysis**
Batch Quality Control**Analytical Method:** 14,504.1**Analytical Date:** 02/19/10 10:49**Analyst:** JB**Extraction Date:** 02/19/10 08:30

Parameter	Result	Qualifier	Units	RDL
Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG401344-1				
1,2-Dibromoethane	ND		ug/l	0.010

Lab Control Sample Analysis Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG401219-1 WG401219-2								
Chlorobenzene	94		100		75-130	6		20
Benzene	99		105		76-127	6		20
Toluene	100		106		76-125	6		20
1,1-Dichloroethene	96		102		61-145	6		20
Trichloroethene	93		95		71-120	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		102		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	101		104		70-130

Lab Control Sample Analysis
Batch Quality Control**Project Name:** 78 LYNN AVE.**Project Number:** 15510**Lab Number:** L1002382**Report Date:** 02/19/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG401344-2								
1,2-Dibromoethane	106		-		70-130	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401344-3 QC Sample: L1002382-01 Client ID: AE-106												
1,2-Dibromoethane	ND	0.253	0.276	109		-	-		70-130	-		20

SEMIVOLATILES

Project Name: 78 LYNN AVE.**Lab Number:** L1002382**Project Number:** 15510**Report Date:** 02/19/10**SAMPLE RESULTS**

Lab ID: L1002382-01
Client ID: AE-106
Sample Location: HULL, MA
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 02/18/10 18:40
Analyst: RL

Date Collected: 02/17/10 14:00
Date Received: 02/17/10
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 02/18/10 06:16

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Acenaphthene	4.6		ug/l	2.0	10
2-Chloronaphthalene	ND		ug/l	2.0	10
Fluoranthene	ND		ug/l	2.0	10
Hexachlorobutadiene	ND		ug/l	5.0	10
Naphthalene	110		ug/l	2.0	10
Benzo(a)anthracene	ND		ug/l	2.0	10
Benzo(a)pyrene	ND		ug/l	2.0	10
Benzo(b)fluoranthene	ND		ug/l	2.0	10
Benzo(k)fluoranthene	ND		ug/l	2.0	10
Chrysene	ND		ug/l	2.0	10
Acenaphthylene	ND		ug/l	2.0	10
Anthracene	ND		ug/l	2.0	10
Benzo(ghi)perylene	ND		ug/l	2.0	10
Fluorene	7.3		ug/l	2.0	10
Phenanthrene	9.9		ug/l	2.0	10
Dibenzo(a,h)anthracene	ND		ug/l	2.0	10
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	10
Pyrene	ND		ug/l	2.0	10
1-Methylnaphthalene	94		ug/l	2.0	10
2-Methylnaphthalene	150		ug/l	2.0	10
Pentachlorophenol	ND		ug/l	8.0	10
Hexachlorobenzene	ND		ug/l	8.0	10
Hexachloroethane	ND		ug/l	8.0	10

Project Name: 78 LYNN AVE.**Lab Number:** L1002382**Project Number:** 15510**Report Date:** 02/19/10**SAMPLE RESULTS**

Lab ID: L1002382-01

Date Collected: 02/17/10 14:00

Client ID: AE-106

Date Received: 02/17/10

Sample Location: HULL, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	92		15-120
2,4,6-Tribromophenol	120		10-120
4-Terphenyl-d14	114		33-120

Project Name: 78 LYNN AVE.**Lab Number:** L1002382**Project Number:** 15510**Report Date:** 02/19/10**SAMPLE RESULTS**

Lab ID: L1002382-01
Client ID: AE-106
Sample Location: HULL, MA
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 02/18/10 20:52
Analyst: PS

Date Collected: 02/17/10 14:00
Date Received: 02/17/10
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 02/18/10 06:11

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Benzidine	ND		ug/l	50	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
3,3'-Dichlorobenzidine	ND		ug/l	50	1
2,4-Dinitrotoluene	ND		ug/l	6.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Azobenzene	ND		ug/l	5.0	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Isophorone	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	1
Butyl benzyl phthalate	ND		ug/l	5.0	1
Di-n-butylphthalate	ND		ug/l	5.0	1
Di-n-octylphthalate	ND		ug/l	5.0	1
Diethyl phthalate	ND		ug/l	5.0	1
Dimethyl phthalate	ND		ug/l	5.0	1
Aniline	ND		ug/l	20	1
4-Chloroaniline	ND		ug/l	5.0	1
2-Nitroaniline	ND		ug/l	5.0	1
3-Nitroaniline	ND		ug/l	5.0	1
4-Nitroaniline	ND		ug/l	7.0	1
Dibenzofuran	ND		ug/l	5.0	1

Project Name: 78 LYNN AVE.**Lab Number:** L1002382**Project Number:** 15510**Report Date:** 02/19/10**SAMPLE RESULTS****Lab ID:** L1002382-01**Date Collected:** 02/17/10 14:00**Client ID:** AE-106**Date Received:** 02/17/10**Sample Location:** HULL, MA**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
n-Nitrosodimethylamine	ND		ug/l	50	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	1
P-Chloro-M-Cresol	ND		ug/l	5.0	1
2-Chlorophenol	ND		ug/l	6.0	1
2,4-Dichlorophenol	ND		ug/l	10	1
2,4-Dimethylphenol	ND		ug/l	10	1
2-Nitrophenol	ND		ug/l	20	1
4-Nitrophenol	ND		ug/l	10	1
2,4-Dinitrophenol	ND		ug/l	30	1
4,6-Dinitro-o-cresol	ND		ug/l	20	1
Phenol	ND		ug/l	7.0	1
2-Methylphenol	ND		ug/l	6.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	1
Benzoic Acid	ND		ug/l	50	1
Benzyl Alcohol	ND		ug/l	10	1
Carbazole	11		ug/l	5.0	1
Pyridine	ND		ug/l	50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	84		33-120

Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 02/18/10 15:31
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 02/18/10 06:11

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG401128-1				
Benzidine	ND		ug/l	50
1,2,4-Trichlorobenzene	ND		ug/l	5.0
Bis(2-chloroethyl)ether	ND		ug/l	5.0
1,2-Dichlorobenzene	ND		ug/l	5.0
1,3-Dichlorobenzene	ND		ug/l	5.0
1,4-Dichlorobenzene	ND		ug/l	5.0
3,3'-Dichlorobenzidine	ND		ug/l	50
2,4-Dinitrotoluene	ND		ug/l	6.0
2,6-Dinitrotoluene	ND		ug/l	5.0
Azobenzene	ND		ug/l	5.0
4-Chlorophenyl phenyl ether	ND		ug/l	5.0
4-Bromophenyl phenyl ether	ND		ug/l	5.0
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0
Hexachlorocyclopentadiene	ND		ug/l	30
Isophorone	ND		ug/l	5.0
Nitrobenzene	ND		ug/l	5.0
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0
Butyl benzyl phthalate	ND		ug/l	5.0
Di-n-butylphthalate	ND		ug/l	5.0
Di-n-octylphthalate	ND		ug/l	5.0
Diethyl phthalate	ND		ug/l	5.0
Dimethyl phthalate	ND		ug/l	5.0
Aniline	ND		ug/l	20
4-Chloroaniline	ND		ug/l	5.0
2-Nitroaniline	ND		ug/l	5.0
3-Nitroaniline	ND		ug/l	5.0
4-Nitroaniline	ND		ug/l	7.0
Dibenzofuran	ND		ug/l	5.0
n-Nitrosodimethylamine	ND		ug/l	50

Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 02/18/10 15:31
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 02/18/10 06:11

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG401128-1				
2,4,6-Trichlorophenol	ND		ug/l	5.0
P-Chloro-M-Cresol	ND		ug/l	5.0
2-Chlorophenol	ND		ug/l	6.0
2,4-Dichlorophenol	ND		ug/l	10
2,4-Dimethylphenol	ND		ug/l	10
2-Nitrophenol	ND		ug/l	20
4-Nitrophenol	ND		ug/l	10
2,4-Dinitrophenol	ND		ug/l	30
4,6-Dinitro-o-cresol	ND		ug/l	20
Phenol	ND		ug/l	7.0
2-Methylphenol	ND		ug/l	6.0
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0
2,4,5-Trichlorophenol	ND		ug/l	5.0
Benzoic Acid	ND		ug/l	50
Benzyl Alcohol	ND		ug/l	10
Carbazole	ND		ug/l	5.0
Pyridine	ND		ug/l	50

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	58		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	75		33-120

Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 02/18/10 17:06
 Analyst: RL

Extraction Method: EPA 3510C
 Extraction Date: 02/18/10 06:16

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG401129-1				
Acenaphthene	ND		ug/l	0.20
2-Chloronaphthalene	ND		ug/l	0.20
Fluoranthene	ND		ug/l	0.20
Hexachlorobutadiene	ND		ug/l	0.50
Naphthalene	ND		ug/l	0.20
Benzo(a)anthracene	ND		ug/l	0.20
Benzo(a)pyrene	ND		ug/l	0.20
Benzo(b)fluoranthene	ND		ug/l	0.20
Benzo(k)fluoranthene	ND		ug/l	0.20
Chrysene	ND		ug/l	0.20
Acenaphthylene	ND		ug/l	0.20
Anthracene	ND		ug/l	0.20
Benzo(ghi)perylene	ND		ug/l	0.20
Fluorene	ND		ug/l	0.20
Phenanthrene	ND		ug/l	0.20
Dibenzo(a,h)anthracene	ND		ug/l	0.20
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20
Pyrene	ND		ug/l	0.20
1-Methylnaphthalene	ND		ug/l	0.20
2-Methylnaphthalene	ND		ug/l	0.20
Pentachlorophenol	ND		ug/l	0.80
Hexachlorobenzene	ND		ug/l	0.80
Hexachloroethane	ND		ug/l	0.80

Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 02/18/10 17:06
 Analyst: RL

Extraction Method: EPA 3510C
 Extraction Date: 02/18/10 06:16

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG401129-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	82		33-120

Lab Control Sample Analysis Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG401128-2 WG401128-3								
1,2,4-Trichlorobenzene	56		61		39-98	9		30
1,2-Dichlorobenzene	56		60		40-140	7		30
1,4-Dichlorobenzene	55		58		36-97	5		30
2,4-Dinitrotoluene	94		84		24-96	11		30
2,6-Dinitrotoluene	86		85		40-140	1		30
4-Chlorophenyl phenyl ether	81		79		40-140	3		30
n-Nitrosodi-n-propylamine	67		70		41-116	4		30
Butyl benzyl phthalate	97		83		40-140	16		30
P-Chloro-M-Cresol	81		84		23-97	4		30
2-Chlorophenol	60		69		27-123	14		30
2-Nitrophenol	68		72		30-130	6		30
4-Nitrophenol	52		46		10-80	12		30
2,4-Dinitrophenol	55		51		20-130	8		30
Phenol	30		34		12-110	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG401128-2 WG401128-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	40		40		21-120
Phenol-d6	27		31		10-120
Nitrobenzene-d5	66		70		23-120
2-Fluorobiphenyl	72		75		15-120
2,4,6-Tribromophenol	81		77		10-120
4-Terphenyl-d14	88		79		33-120

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG401129-2 WG401129-3

Acenaphthene	65		68		40-140	5	40
2-Chloronaphthalene	82		80		40-140	2	40
Fluoranthene	102		102		40-140	0	40
Anthracene	86		86		40-140	0	40
Pyrene	100		100		40-140	0	40
Pentachlorophenol	98		101		9-103	3	40

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG401129-2 WG401129-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	48		48		21-120
Phenol-d6	29		29		10-120
Nitrobenzene-d5	75		75		23-120
2-Fluorobiphenyl	74		75		15-120
2,4,6-Tribromophenol	93		84		10-120
4-Terphenyl-d14	99		94		33-120

PCBS

Project Name: 78 LYNN AVE.**Lab Number:** L1002382**Project Number:** 15510**Report Date:** 02/19/10**SAMPLE RESULTS**

Lab ID: L1002382-01
Client ID: AE-106
Sample Location: HULL, MA
Matrix: Water
Analytical Method: 5,608
Analytical Date: 02/18/10 15:03
Analyst: JB

Date Collected: 02/17/10 14:00
Date Received: 02/17/10
Field Prep: Not Specified
Extraction Method: EPA 608
Extraction Date: 02/18/10 06:19
Cleanup Method1: EPA 3665A
Cleanup Date1: 02/18/10

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Polychlorinated Biphenyls by GC - Westborough Lab					
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Aroclor 1016	ND		ug/l	0.278	1
Aroclor 1221	ND		ug/l	0.278	1
Aroclor 1232	ND		ug/l	0.278	1
Aroclor 1242	ND		ug/l	0.278	1
Aroclor 1248	ND		ug/l	0.278	1
Aroclor 1254	ND		ug/l	0.278	1
Aroclor 1260	ND		ug/l	0.278	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

Method Blank Analysis Batch Quality Control

Analytical Method: 5,608
 Analytical Date: 02/18/10 14:11
 Analyst: JB

Extraction Method: EPA 608
 Extraction Date: 02/18/10 06:19
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 02/18/10

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG401130-1				
Aroclor 1016	ND		ug/l	0.250
Aroclor 1221	ND		ug/l	0.250
Aroclor 1232	ND		ug/l	0.250
Aroclor 1242	ND		ug/l	0.250
Aroclor 1248	ND		ug/l	0.250
Aroclor 1254	ND		ug/l	0.250
Aroclor 1260	ND		ug/l	0.250

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	84		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401130-3 QC Sample: L1002382-01 Client ID: AE-106												
Aroclor 1016	ND	2.22	2.50	113		-	-		40-126	-		30
Aroclor 1260	ND	2.22	2.64	119		-	-		40-127	-		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84				30-150	A
Decachlorobiphenyl	103				30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG401130-2								
Aroclor 1016	88		-		40-126	-		30
Aroclor 1260	100		-		40-127	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65				30-150	A
Decachlorobiphenyl	86				30-150	A

Lab Duplicate Analysis Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401130-4 QC Sample: L1002382-01 Client ID: AE-106						
Aroclor 1016	ND	ND	ug/l	NC		30
Aroclor 1221	ND	ND	ug/l	NC		30
Aroclor 1232	ND	ND	ug/l	NC		30
Aroclor 1242	ND	ND	ug/l	NC		30
Aroclor 1248	ND	ND	ug/l	NC		30
Aroclor 1254	ND	ND	ug/l	NC		30
Aroclor 1260	ND	ND	ug/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		69		30-150	A
Decachlorobiphenyl	97		92		30-150	A

METALS

Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

SAMPLE RESULTS

Lab ID: L1002382-01

Date Collected: 02/17/10 14:00

Client ID: AE-106

Date Received: 02/17/10

Sample Location: HULL, 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 - Westborough Lab										
Antimony, Total	ND		mg/l	0.0005	1	02/18/10 10:50	02/19/10 15:03	EPA 3005A	1,6020	BM
Arsenic, Total	0.0018		mg/l	0.0005	1	02/18/10 10:50	02/19/10 15:03	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.0002	1	02/18/10 10:50	02/19/10 15:03	EPA 3005A	1,6020	BM
Chromium, Total	0.003		mg/l	0.0005	1	02/18/10 10:50	02/19/10 15:03	EPA 3005A	1,6020	BM
Copper, Total	0.00190		mg/l	0.0005	1	02/18/10 10:50	02/19/10 15:03	EPA 3005A	1,6020	BM
Iron, Total	3.4		mg/l	0.05	1	02/18/10 10:00	02/19/10 10:01	EPA 3005A	19,200.7	AI
Lead, Total	0.0026		mg/l	0.0005	1	02/18/10 10:50	02/19/10 15:03	EPA 3005A	1,6020	BM
Mercury, Total	ND		mg/l	0.0002	1	02/18/10 11:45	02/18/10 15:16	EPA 245.1	3,245.1	EZ
Nickel, Total	0.0016		mg/l	0.0005	1	02/18/10 10:50	02/19/10 15:03	EPA 3005A	1,6020	BM
Selenium, Total	ND		mg/l	0.001	1	02/18/10 10:50	02/19/10 15:03	EPA 3005A	1,6020	BM
Silver, Total	ND		mg/l	0.0004	1	02/18/10 10:50	02/19/10 15:03	EPA 3005A	1,6020	BM
Zinc, Total	0.0118		mg/l	0.0050	1	02/18/10 10:50	02/19/10 15:03	EPA 3005A	1,6020	BM



Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG401203-1								
Mercury, Total	ND	mg/l	0.0002	1	02/18/10 11:45	02/18/10 15:11	3,245.1	EZ

Prep Information

Digestion Method: EPA 245.1

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG401229-1								
Antimony, Total	ND	mg/l	0.0005	1	02/18/10 10:50	02/19/10 14:51	1,6020	BM
Arsenic, Total	ND	mg/l	0.0005	1	02/18/10 10:50	02/19/10 14:51	1,6020	BM
Cadmium, Total	ND	mg/l	0.0002	1	02/18/10 10:50	02/19/10 14:51	1,6020	BM
Chromium, Total	ND	mg/l	0.0005	1	02/18/10 10:50	02/19/10 14:51	1,6020	BM
Copper, Total	ND	mg/l	0.0005	1	02/18/10 10:50	02/19/10 14:51	1,6020	BM
Lead, Total	ND	mg/l	0.0005	1	02/18/10 10:50	02/19/10 14:51	1,6020	BM
Nickel, Total	ND	mg/l	0.0005	1	02/18/10 10:50	02/19/10 14:51	1,6020	BM
Selenium, Total	ND	mg/l	0.001	1	02/18/10 10:50	02/19/10 14:51	1,6020	BM
Silver, Total	ND	mg/l	0.0004	1	02/18/10 10:50	02/19/10 14:51	1,6020	BM
Zinc, Total	ND	mg/l	0.0050	1	02/18/10 10:50	02/19/10 14:51	1,6020	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG401324-1								
Iron, Total	ND	mg/l	0.05	1	02/18/10 10:00	02/19/10 09:42	19,200.7	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG401203-2								
Mercury, Total	101		-		85-115	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG401229-2								
Antimony, Total	96		-		80-120	-		
Arsenic, Total	98		-		80-120	-		
Cadmium, Total	105		-		80-120	-		
Chromium, Total	94		-		80-120	-		
Copper, Total	97		-		80-120	-		
Lead, Total	101		-		80-120	-		
Nickel, Total	96		-		80-120	-		
Selenium, Total	98		-		80-120	-		
Silver, Total	105		-		80-120	-		
Zinc, Total	100		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG401324-2								
Iron, Total	98		-		85-115	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401203-4 QC Sample: L1002420-01 Client ID: MS Sample												
Mercury, Total	ND	0.001	0.0011	108		-	-		70-130	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401229-4 QC Sample: L1002382-01 Client ID: AE-106												
Antimony, Total	ND	0.5	0.5006	100		-	-		80-120	-		20
Arsenic, Total	0.0018	0.12	0.1287	106		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.0558	109		-	-		80-120	-		20
Chromium, Total	0.003	0.2	0.2042	100		-	-		80-120	-		20
Copper, Total	0.00190	0.25	0.2620	104		-	-		80-120	-		20
Lead, Total	0.0026	0.51	0.5351	104		-	-		80-120	-		20
Nickel, Total	0.0016	0.5	0.5160	103		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.097	81		-	-		80-120	-		20
Silver, Total	ND	0.05	0.0527	105		-	-		80-120	-		20
Zinc, Total	0.0118	0.5	0.5397	106		-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401324-4 QC Sample: L1001566-54 Client ID: MS Sample												
Iron, Total	ND	1	1.0	100		-	-		75-125	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401203-3 QC Sample: L1002420-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401229-3 QC Sample: L1002382-01 Client ID: AE-106						
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	0.0018	0.0015	mg/l	15		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.003	0.0028	mg/l	8		20
Copper, Total	0.00190	0.0017	mg/l	12		20
Lead, Total	0.0026	0.0026	mg/l	2		20
Nickel, Total	0.0016	0.0015	mg/l	10		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.0118	0.0179	mg/l	41		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401324-3 QC Sample: L1001566-54 Client ID: DUP Sample						
Iron, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

SAMPLE RESULTS

Lab ID: L1002382-01

Date Collected: 02/17/10 14:00

Client ID: AE-106

Date Received: 02/17/10

Sample Location: HULL, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Chlorine, Total Residual	ND		mg/l	0.02	1	-	02/17/10 20:40	30,4500CL-D	DD
Phenolics, Total	0.09		mg/l	0.03	1	-	02/18/10 16:38	4,420.1	TH
Chromium, Hexavalent	ND		mg/l	0.050	5	02/17/10 22:00	02/17/10 22:00	30,3500CR-D	DD



Project Name: 78 LYNN AVE.**Project Number:** 15510**Lab Number:** L1002382**Report Date:** 02/19/10**SAMPLE RESULTS****Lab ID:** L1002382-02**Client ID:** VES-2**Sample Location:** HULL, MA**Matrix:** Water**Date Collected:** 02/17/10 15:20**Date Received:** 02/17/10**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
TPH	170		mg/l	6.40	1.6	02/18/10 10:45	02/19/10 11:00	74,1664A	JO



Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG401097-2									
Chlorine, Total Residual	ND		mg/l	0.02	1	-	02/17/10 20:40	30,4500CL-D	DD
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG401121-2									
Chromium, Hexavalent	ND		mg/l	0.010	1	02/17/10 22:00	02/17/10 22:00	30,3500CR-D	DD
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG401184-2									
TPH	ND		mg/l	4.00	1	02/18/10 10:45	02/19/10 11:00	74,1664A	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG401202-1									
Phenolics, Total	ND		mg/l	0.03	1	-	02/18/10 16:33	4,420.1	TH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG401097-1								
Chlorine, Total Residual	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG401121-1								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG401184-1								
TPH	80		-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG401202-2								
Phenolics, Total	104		-		82-111	-		12

Matrix Spike Analysis

Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401121-3 QC Sample: L1002382-01 Client ID: AE-106												
Chromium, Hexavalent	ND	0.5	0.480	95		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG401184-3 QC Sample: L1001566-49 Client ID: MS Sample												
TPH	ND	20.6	ND	81		-	-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401202-3 QC Sample: L1002382-01 Client ID: AE-106												
Phenolics, Total	0.09	0.8	0.86	96		-	-		77-124	-		12

Lab Duplicate Analysis

Batch Quality Control

Project Name: 78 LYNN AVE.

Project Number: 15510

Lab Number: L1002382

Report Date: 02/19/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401097-3 QC Sample: L1002356-01 Client ID: DUP Sample						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401121-4 QC Sample: L1002382-01 Client ID: AE-106						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG401184-4 QC Sample: L1001566-50 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG401202-4 QC Sample: L1002382-01 Client ID: AE-106						
Phenolics, Total	0.09	0.08	mg/l	12		12

Project Name: 78 LYNN AVE.

Lab Number: L1002382

Project Number: 15510

Report Date: 02/19/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L1002382-01A	Vial Na2S2O3 preserved	A	N/A	2	Y	Absent	504(14)
L1002382-01B	Vial Na2S2O3 preserved	A	N/A	2	Y	Absent	504(14)
L1002382-01C	Vial HCl preserved	A	N/A	2	Y	Absent	8260(14)
L1002382-01D	Vial HCl preserved	A	N/A	2	Y	Absent	8260(14)
L1002382-01E	Plastic 1000ml unpreserved	A	7	2	Y	Absent	SUB-TSS(7)
L1002382-01F	Plastic 1000ml unpreserved	A	7	2	Y	Absent	HEXCR-3500(1),TRC-4500(1)
L1002382-01G	Plastic 1000ml NaOH preserved	A	>12	2	Y	Absent	SUB-TCN(14)
L1002382-01H	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),FE-UI(180),PB-6020T(180),HG-U(28),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180)
L1002382-01I	Amber 1000ml unpreserved	A	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1002382-01J	Amber 1000ml unpreserved	A	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1002382-01K	Amber 1000ml unpreserved	A	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1002382-01L	Amber 1000ml unpreserved	A	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1002382-01M	Amber 1000ml Na2S2O3	A	7	2	Y	Absent	PCB-608(7)
L1002382-01N	Amber 1000ml Na2S2O3	A	7	2	Y	Absent	PCB-608(7)
L1002382-01Q	Amber 500ml H2SO4preserved	A	<2	2	Y	Absent	TPHENOL-420(28)
L1002382-01R	Amber 500ml H2SO4preserved	A	<2	2	Y	Absent	TPHENOL-420(28)
L1002382-02A	Amber 1000ml HCl preserved	A	<2	2	Y	Absent	TPH-1664(28)
L1002382-03A	Vial Na2S2O3 preserved	A	N/A	2	Y	Absent	HOLD(14)

*Hold days indicated by values in parentheses



Project Name: 78 LYNN AVE.
Project Number: 15510

Lab Number: L1002382
Report Date: 02/19/10

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: 78 LYNN AVE.
Project Number: 15510

Lab Number: L1002382
Report Date: 02/19/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 5 Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).
- 14 Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 74 Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

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 January 11, 2010 - Westboro Facility

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

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

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

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

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

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

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

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

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

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

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH₃-H, 4500NH₃-E, 4500NO₂-B, 4500P-E, 4500-S₂-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

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

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B₅+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

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

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. *Organic Parameters:* MA-EPH, MA-VPH.**Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. *NELAP Accredited.***

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

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

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

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

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

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S₂⁻D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

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

Utah Department of Health Certificate/Lab ID: AAMA. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: Chloride EPA 300.0)

Department of Defense Certificate/Lab ID: L2217.

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

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

Environmental Chemistry
Site Assessment
Quality Assurance Services



Environmental Services
Site Sampling
Data Auditing

Matt Beaupre
Alpha Analytical
8 Walkup Dr.
Westborough, MA 01581
COLLECTED BY: Customer
TIME: 14:00
LOCATION: L1002382-01

CERTIFICATE OF ANALYSIS

REPORTED: 02/19/2010
ORDER #: G1023748
SAMPLE DATE: 2/17/2010
DATE RECEIVED: 2/18/2010
SAMPLE ID:
DESCRIPTION: WATER

RESULTS OF ANALYSIS

Parameter	Analytical Method	Date Analyzed	Units	Det Limit*	Result
Test Parameters			LAB-ID#: <u>1023748-01</u>		
Cyanide 4500-CN-C/E	SM 4500CN-E	02/18/2010	mg/L	0.01	<0.01
Solids, Suspended	SM 2540 D	02/18/2010	mg/L	4	27.5

NA = Not Applicable
ND = Not Detected
'<' = Less Than
'*' = Detection Limit

Approved By: [Signature] 2/19/10
Lab Manager / Date

Batch ID: 10/02/18-JAG-1

QA/QC Work Sheet

Report Date: 02/19/2010

QA/QC:

LAB-ID #	EPA Qualif	Sample Surr. Conc.	Spike Conc.	Test Result	% Pct Recovery	RPD Run #
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CONTROL

Solids, Suspended	0050891-02	0	145	138	95.2%	0% 1
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DUPLICATE

Solids, Suspended	1023642-01	29.5	0	30	0%	1.7% 1
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MS
2/19/10

Batch ID: 10/02/16-JPM-3

QA/QC Work Sheet

Report Date: 02/19/2010

QA/QC:

LAB-ID #	EPA Qualf	Sample Surr. Conc.	Spike Conc.	Test Result	% Pct Recovery	RPD Run #
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CONTROL

Cyanide 4500-CN-C/E	0050863-02	0	0.295	0.268	90.8%	0% 1
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DUPLICATE

Cyanide 4500-CN-C/E	1023587-01 U	0	0	0	0%	0% 1
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MS

Cyanide 4500-CN-C/E	1023587-02	0	1	1.12	112.%	0% 1
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MS
2/19/10



United States Department of the Interior



FISH AND WILDLIFE SERVICE

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

January 4, 2010

To Whom It May Concern:

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

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

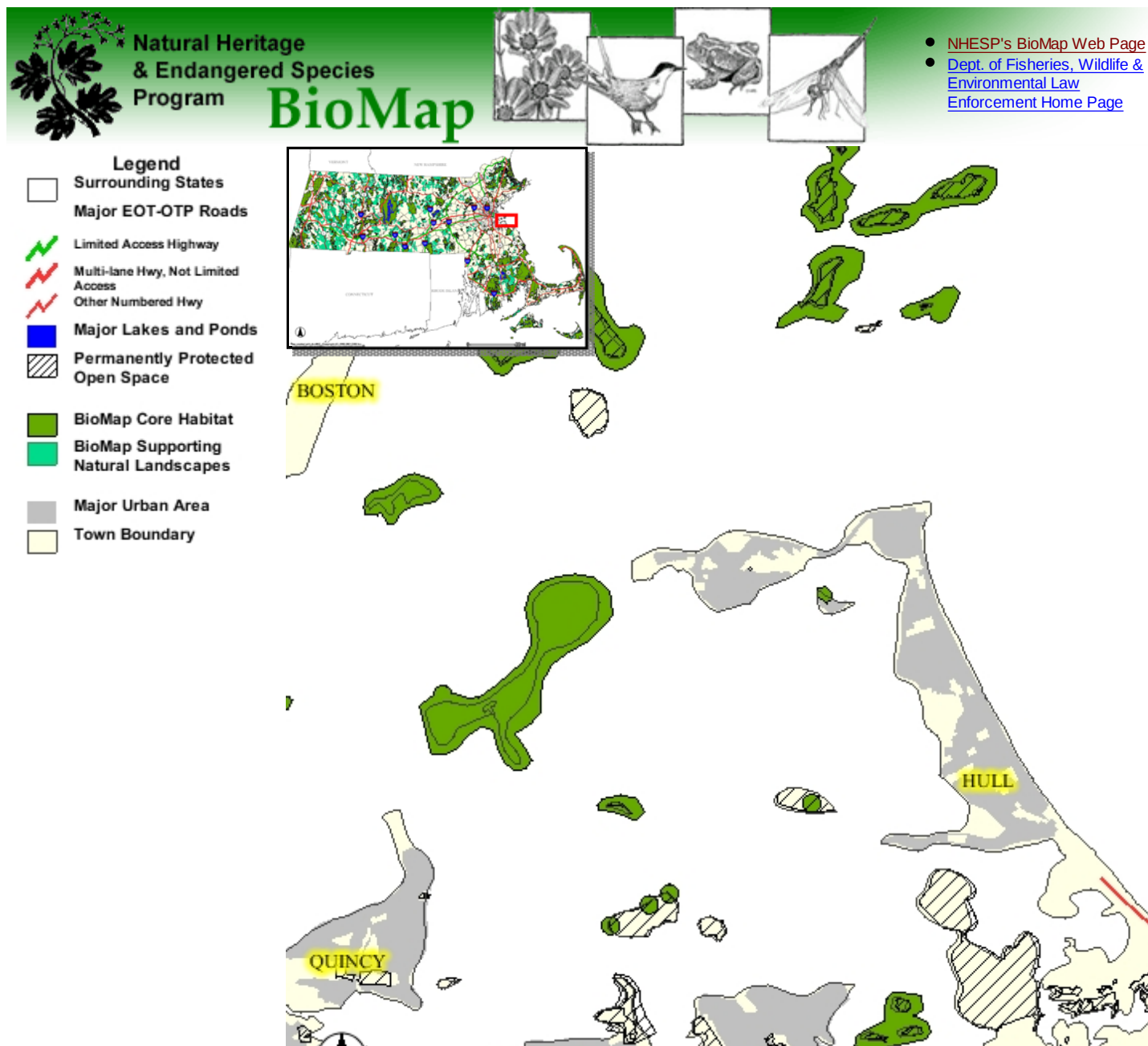
Based on the information currently available, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service (Service) are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation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

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

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

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office



[Living Waters Viewer](#)



Produced by the NHESP GIS Program
with the Assistance of MassGIS
and the DFWELE GIS Program.

MASS GIS

Choose a Town

GO

Tools to Use with the Map

Click on an icon below, then perform action with mouse on map. Red square indicates active tool.

Click the map or draw a box to zoom in

Click the map or draw a box to zoom out

Drag the map to move it

Get an ID value for BioMap Core Habitat

Next 4 icons: action happens when icon is clicked.

Zooms all the way out

Hide/show the overview map

Zooms to previous extent

Use to print the map. (Using the File menu/Print Frame will not work)

The Official Website of the Department of Fish and Game (DFG)

Department of Fish and Game

Commissioner Mary B. Griffin

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MassWildlife

Massachusetts Division of Fisheries & Wildlife

Wayne F. MacCallum, Director



Natural Heritage & Endangered Species

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Rare Species by Town

MESA (Massachusetts Endangered Species Act) and Federal Status

Quick Links

» [Town Index](#)
» [MESA List](#)
» [Contact Us](#)

E = Endangered T = Threatened SC = Special Concern

Most Recent Observation

This field represents the most recent observation of that species in a town. However, because they are rare, many MESA-listed species are difficult to detect even when they are present. Natural Heritage does not have the resources to be able to conduct methodical species surveys in each town on a regular basis. Therefore, the fact that the 'Most Recent Observation' recorded for a species may be several years old should not be interpreted as meaning that the species no longer occurs in a town. However, Natural Heritage regards records older than twenty-five years historic.

Click on a town below to view MESA-listed species for that town. To print the species for a particular town, highlight the species using your mouse, go to Print under the File Menu, click on 'Selection' under 'Print Range' and click OK.

For more information about a particular species, view the list of [Natural Heritage Fact Sheets](#).

These data were extracted from the database of the Natural Heritage and Endangered Species Program in September 2009.

[Hadley](#) | [Halifax](#) | [Hamilton](#) | [Hampden](#) | [Hancock](#) | [Hanover](#) | [Hanson](#) | [Hardwick](#) | [Harvard](#) | [Harwich](#) | [Hatfield](#) | [Haverhill](#) | [Hawley](#) | [Heath](#) | [Hingham](#) | [Hinsdale](#) | [Holbrook](#) | [Holden](#) | [Holland](#) | [Holliston](#) | [Holyoke](#) | [Hopedale](#) | [Hopkinton](#) | [Hubbardston](#) | [Hudson](#) | | [Hull](#) | [Huntington](#)

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
HADLEY	Amphibian	Scaphiopus holbrookii	Eastern Spadefoot	T		2000
HADLEY	Bird	Ammodramus savannarum	Grasshopper Sparrow	T		1993
HADLEY	Bird	Bartramia longicauda	Upland Sandpiper	E		1984
HADLEY	Bird	Cistothorus platensis	Sedge Wren	E		1989
HADLEY	Bird	Haliaeetus leucocephalus	Bald Eagle	E		2009
HADLEY	Bird	Pooecetes gramineus	Vesper Sparrow	T		2000

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
HULL	Bird	<i>Sterna hirundo</i>	Common Tern	SC		2007
HULL	Bird	<i>Sternula antillarum</i>	Least Tern	SC		2007
HULL	Bird	<i>Tyto alba</i>	Barn Owl	SC		1971
HULL	Vascular Plant	<i>Rumex pallidus</i>	Seabeach Dock	T		2004
HULL	Vascular Plant	<i>Triosteum perfoliatum</i>	Broad Tinker's-weed	E		1890

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
HUNTINGTON	Amphibian	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	SC		1999
HUNTINGTON	Beetle	<i>Cicindela duodecimguttata</i>	Twelve-spotted Tiger Beetle	SC		2008
HUNTINGTON	Bird	<i>Accipiter striatus</i>	Sharp-shinned Hawk	SC		1923
HUNTINGTON	Bird	<i>Oporornis philadelphia</i>	Mourning Warbler	SC		1997
HUNTINGTON	Bird	<i>Vermivora chrysoptera</i>	Golden-winged Warbler	E		1970s
HUNTINGTON	Butterfly/Moth	<i>Papaipema</i> sp. 2 nr. <i>ptersii</i>	Ostrich Fern Borer Moth	SC		2002
HUNTINGTON	Dragonfly/Damselfly	<i>Boyeria grafiana</i>	Ocellated Darner	SC		2003
HUNTINGTON	Dragonfly/Damselfly	<i>Ophiogomphus carolus</i>	Riffle Snaketail	T		2003
HUNTINGTON	Dragonfly/Damselfly	<i>Somatochlora elongata</i>	Ski-tipped Emerald	SC		1997
HUNTINGTON	Dragonfly/Damselfly	<i>Stylurus scudderi</i>	Zebra Clubtail	SC		2005
HUNTINGTON	Dragonfly/Damselfly	<i>Stylurus spiniceps</i>	Arrow Clubtail	T		2005
HUNTINGTON	Fish	<i>Couesius plumbeus</i>	Lake Chub	E		1990
HUNTINGTON	Mammal	<i>Sorex palustris</i>	Water Shrew	SC		1997
HUNTINGTON	Mussel	<i>Strophitus undulatus</i>	Creeper	SC		1998
HUNTINGTON	Reptile	<i>Glyptemys insculpta</i>	Wood Turtle	SC		2006
HUNTINGTON	Vascular Plant	<i>Adlumia fungosa</i>	Climbing Fumitory	SC		2007
HUNTINGTON	Vascular Plant	<i>Carex alopecoidea</i>	Foxtail Sedge	T		1997
HUNTINGTON	Vascular Plant	<i>Carex hitchcockiana</i>	Hitchcock's Sedge	SC		1998
HUNTINGTON	Vascular Plant	<i>Mimulus moschatus</i>	Muskflower	E		2003
HUNTINGTON	Vascular Plant	<i>Podostemum ceratophyllum</i>	Threadfoot	SC		1987
HUNTINGTON	Vascular Plant	<i>Senna hebecarpa</i>	Wild Senna	E		2001
HUNTINGTON	Vascular Plant	<i>Waldsteinia fragarioides</i>	Barren Strawberry	SC		1908

Index by State and City

National Register Information System

03/08/2010 13:01:32

No filterInclude filter in navigation ☐

Row	STATE ▾	COUNTY ▾	RESOURCE NAME ▾	ADDRESS ▾	CITY ▾	LISTED ▾	MULTIPLE ▾
1	MA	Plymouth	Graves Light Station	N of Hull in the Massachusetts Bay	Hull	1987-09-28	Lighthouses of Massachusetts TR
2	MA	Plymouth	Hull Shore Drive, Nantasket Avenue, Metropolitan Park System of Greater Boston MPS	Hull Shore Dr., Nantasket Ave.	Hull	2004-01-21	Metropolitan Park System of Greater Boston MPS
3	MA	Plymouth	Paragon Park Carousel	1 Wharf Ave.	Hull	1999-09-14	
4	MA	Plymouth	Point Allerton Lifesaving Station	Nantasket Ave.	Hull	1981-06-11	
5	MA	Plymouth	Telegraph Hill	Address Restricted	Hull	1976-07-12	

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