Notice of Intent
Remediation General Permit

Wetland Remediation Activities

Keith Middle School
225 Hathaway Road
New Bedford, Massachusetts

July 5, 2006

MAG910244

Prepared for:

City of New Bedford
Office of Environmental Stewardship
133 William Street
New Bedford, MA 02740

Prepared by:

BETA Group, Inc.
Engineers • Scientists • Planners
315 Norwood Park South, Norwood, MA 02062 781.255.1982 fax: 781.255.1974
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email: BETA@BETA-eng.com

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133 William Street
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Prepared by: BETA Group, Inc.
315 Norwood Park South
Norwood, MA 02062

Project Manager: David G. Billo

Project Scientist: James M. Smith

July 5, 2006

Table of Contents

A. Cover Letter / Explanation of Project

B. Notice of Intent Form for Remediation General Permit

Figures

Figure No.	Description
1	Site Locus Map
2	Site Plan (2 sheets)
3	Treatment System Schematic

Appendices

Appendix	Description
A	Correspondence with Federal and State Fish and Wildlife, Natural Heritage, and Historical Agencies
B	Laboratory Analytical Data

BETA Group, Inc.
Engineers • Scientists • Planners

315 Norwood Park South
Norwood, MA 02062
(781) 255-1982, fax (781) 255-1974
www.BETA-Inc.com

July 5, 2006

US Environmental Protection Agency
RGP NOI Processing
Municipal Assistance Unit (CMU)
One Congress Street, Suite 1100
Boston, MA 02114-2023

Re: Keith Middle School, New Bedford, MA
Remediation General Permit – Notice of Intent

To Whom It May Concern:

The City of New Bedford is preparing to conduct remediation activities in the wetland located adjacent to the McCoy Field/Keith Middle School construction site. Approval to perform the proposed wetland remediation work has been granted by the US Environmental Protection Agency (EPA), Massachusetts Department of Environmental Protection (DEP), US Army Corps of Engineers, and the Massachusetts Environmental Policy Act (Executive Office of Environmental Affairs). A contractor has been selected to perform the proposed work.

In order to properly excavate contaminated sediment, dewatering of the wetland area will be required. Discharge of pumped groundwater/surface water will be directed through a frac tank and bag filtering system into a nearby catch basin that empties into the city storm drain system and will ultimately discharge to the north of the Site. Dewatering activities require the completion of a Notice of Intent (NOI) for the Remediation General Permit (RGP).

The attached locus plan shows the location of the project site on the Massachusetts USGS 7.5x15 minute topographic quadrangle map (Figure 1). The remediation activities are located within the boundaries of the Project Area, as identified on the locus map. The water filtering system will discharge into a catch basin located adjacent to the project area (along Summit Road to the west). The catch basin empties into a portion of the City storm drain system, which discharges through an outfall to the north of the Project Area. Attachments appended to this form include a treatment system schematic, correspondence with regulatory authorities, and laboratory analytical data.

Since the discharge from the dewatering system combines with the City of New Bedford storm drain system and ultimately terminates in a wetland area (not within a specific body of water), the calculation of a dilution factor was not possible. Therefore, a dilution factor of one (the most stringent dilution factor) will be used for testing compliance. Note: Although the Massachusetts USGS topographic quadrangle map (Figure 1)

illustrates a stream crossing through (and to the north of) the Project Area, actual site conditions support the conclusion that the area is considered a wetland, but not a stream.

Should you require any additional information, please do not hesitate to call me at 781-255-1982.

Respectfully,
BETA Group, Inc.

David Billo
Project Manager

James M. Smith
Project Scientist

Cc: Scott Alfonse, City of New Bedford
Sarah Porter, City of New Bedford
Massachusetts DEP, Bureau of Resource Protection

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**: Keith Middle School		**Facility/site** address: 225 Hathaway Boulevard, New Bedford, MA		
Location of **facility/site**: longitude: 70.95 latitude: 41.65	Facility SIC code(s):	Street: 225 Hathaway Boulevard		
b) Name of **facility/site owner:** City of New Bedford		Town: New Bedford		
Email address of owner: contact Scott Alfonse scotta@ci.new-bedford.ma.us		State: MA	Zip: 02740	County: Bristol
Telephone no.of facility/site **owner**: (508) 979-1487				
Fax no. of facility/site **owner**: (508) 961-3045		**Owner** is (check one): 1. Federal____ 2. State/Tribal_____ 3. Private_____ 4. other, if so, describe: Municipality		
Address of **owner** (if different from site):				
Street: 133 William Street				
Town: New Bedford	State: MA	Zip: 02740	County: Bristol	
c) Legal name of **operator**: RC&D Inc.	**Operator** telephone no: (401) 270-5483			
	Operator fax no.: (401) 270-5486	**Operator** email:		
Operator contact name and title: David Egan, Principal				

Address of **operator** (if different from owner):	Street: 17 Gordon Avenue, Suite 205		
Town: Providence	State: RI	Zip: 02905	County: Providence

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: MA-04I-015
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes ✔ No___, if "yes," date and tracking #: MA-04I-015
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: MA RTN 4-15685
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:
MA DEP SERO, Lakeville, MA 02347, Gerard Martin 508-947-6557

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: MAR 100000
3. individual NPDES permit? Y___ N ✔, if Y, number:
4. any other water quality related permit? Y___ N ✔, if Y, number:

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:
Dewatering activities to take place during the excavation of contaminated sediment from a wetland area.

b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)? Max. flow .58 Average flow .233 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. 70.95 lat. 41.65 ; 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 07/31/06 end 09/08/06	
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).	

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.

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**		**Avg. daily value**	
							concentration (ug/l)	**mass (kg)**	**concentration (ug/l)**	**mass (kg)**
1. Total Suspended Solids		✔	1	grab	160.2	1000	10000		10000	
2. Total Residual Chlorine	✔		1	grab	330.5	100	ND		ND	
3. Total Petroleum Hydrocarbons	✔		1	grab	1664A	2000	ND		ND	
4. Cyanide	✔		1	grab	335.2	10	ND		ND	
5. Benzene	✔		1	grab	624	1	ND		ND	
6. Toluene	✔		1	grab	624	1	ND		ND	
7. Ethylbenzene	✔		1	grab	624	1	ND		ND	
8. (m,p,o) Xylenes	✔		1	grab	624	2	ND		ND	
9. Total BTEX[4]	✔		1	grab	624	2	ND		ND	

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

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		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✔		1	grab	624	1	ND		ND	
11. Methyl-tert-Butyl Ether (MtBE)	✔		1	grab	624	2	ND		ND	
12. tert-Butyl Alcohol (TBA)	✔		1	grab	624	1	ND		ND	
13. tert-Amyl Methyl Ether (TAME)	✔		1	grab	624	1	ND		ND	
14. Naphthalene	✔		1	grab	625	1	ND		ND	
15. Carbon Tetra-chloride	✔		1	grab	624	1	ND		ND	
16. 1,4 Dichlorobenzene	✔		1	grab	624	1	ND		ND	
17. 1,2 Dichlorobenzene	✔		1	grab	624	1	ND		ND	
18. 1,3 Dichlorobenzene	✔		1	grab	624	1	ND		ND	
19. 1,1 Dichloroethane	✔		1	grab	624	1	ND		ND	
20. 1,2 Dichloroethane	✔		1	grab	624	1	ND		ND	
21. 1,1 Dichloroethylene	✔		1	grab	624	1	ND		ND	
22. cis-1,2 Dichloro-ethylene	✔		1	grab	624	1	ND		ND	
23. Dichloromethane (Methylene Chloride)	✔		1	grab	624	2	ND		ND	
24. Tetrachloroethylene	✔		1	grab	624	1	ND		ND	

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		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✔		1	grab	624	1	ND		ND	
26. 1,1,2 Trichloroethane	✔		1	grab	624	1	ND		ND	
27. Trichloroethylene	✔		1	grab	624	1	ND		ND	
28. Vinyl Chloride	✔		1	grab	624	1	ND		ND	
29. Acetone	✔		1	grab	624	5	ND		ND	
30. 1,4 Dioxane	✔		1	grab	624	1	ND		ND	
31. Total Phenols	✔		1	grab	625	1	ND		ND	
32. Pentachlorophenol	✔		1	grab	625	5	ND		ND	
33. Total Phthalates [5] (Phthalate esthers)	✔		1	grab	625	1	ND		ND	
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✔		1	grab	625	3	ND		ND	
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✔		1	grab	625		ND		ND	
a. Benzo(a) Anthracene	✔		1	grab	625	1	ND		ND	
b. Benzo(a) Pyrene	✔		1	grab	625	1	ND		ND	
c. Benzo(b)Fluoranthene	✔		1	grab	625	1	ND		ND	
d. Benzo(k) Fluoranthene	✔		1	grab	625	1	ND		ND	
e. Chrysene	✔		1	grab	625	1	ND		ND	

[5] The 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	✔		1	grab	625	1	ND		ND	
g. Indeno(1,2,3-cd) Pyrene	✔		1	grab	625	1	ND		ND	
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✔		1	grab	625		ND		ND	
h. Acenaphthene	✔		1	grab	625	1	ND		ND	
i. Acenaphthylene	✔		1	grab	625	1	ND		ND	
j. Anthracene	✔		1	grab	625	1	ND		ND	
k. Benzo(ghi) Perylene	✔		1	grab	625	1	ND		ND	
l. Fluoranthene	✔		1	grab	625	1	ND		ND	
m. Fluorene	✔		1	grab	625	1	ND		ND	
n. Naphthalene-	✔		1	grab	625	1	ND		ND	
o. Phenanthrene	✔		1	grab	625	1	ND		ND	
p. Pyrene	✔		1	grab	625	1	ND		ND	
37. Total Polychlorinated Biphenyls (PCBs)	✔		1	grab	608	.4	ND		ND	
38. Antimony	✔		1	grab	200.7	5	ND		ND	
39. Arsenic	✔		1	grab	3113B	5	ND		ND	
40. Cadmium	✔		1	grab	3113B	.5	ND		ND	
41. Chromium III	✔		1	grab	200.7	10	ND		ND	
42. Chromium VI	✔		1	grab	3500	50	ND		ND	

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		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		✔	1	grab	200.7	20	20		20	
44. Lead		✔	1	grab	200.7	5	7		7	
45. Mercury	✔		1	grab	245.1	.2	ND		ND	
46. Nickel		✔	1	grab	200.7	5	5		5	
47. Selenium	✔		1	grab	200.7	10	ND		ND	
48. Silver	✔		1	grab	200.7	5	ND		ND	
49. Zinc		✔	1	grab	200.7	20	170		170	
50. Iron		✔	1	grab	200.7	50	3920		3920	
Other (describe):										

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

Step 1: 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? Copper, Lead, Zinc, Iron
Step 2: 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: Copper, Lead, Zinc, Iron DF: 1	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: Copper, Lead, Zinc, Iron

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:

Influent will be pumped into a 20,000-gallon frac tank. Solids will settle primarily within the frac tank, and water will be pumped from mid-tank or higher through two 10-micron bag filter units, piped in parallel. Effluent will then be allowed to empty into an on-site storm drain system via catch basin. The storm drain system ultimately discharges to an unnamed wetland area located to the north of the project area.

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 100 Maximum flow rate of treatment system 250 Design flow rate of treatment system 300

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:

Discharge from filtering system into nearby catch basin. Catch basin empties into city storm drain system on Hathaway Boulevard. Storm drain system terminates in an unnamed wetland area located approximately 1/10 mile to north of project area.

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 none,

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 0 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 ? ✔ 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.

Supplemental Information:

1-USGS Locus Map
2-Treatment System Design Diagram
3-Correspondence with US Fish and Wildlife Service
4-Correspondence with Massachusetts Natural Heritage and Endangered Species Program
5-Correspondence with Massachusetts Historical Commission
6-Laboratory Analytical Data

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: McCoy Field / New Keith Middle School

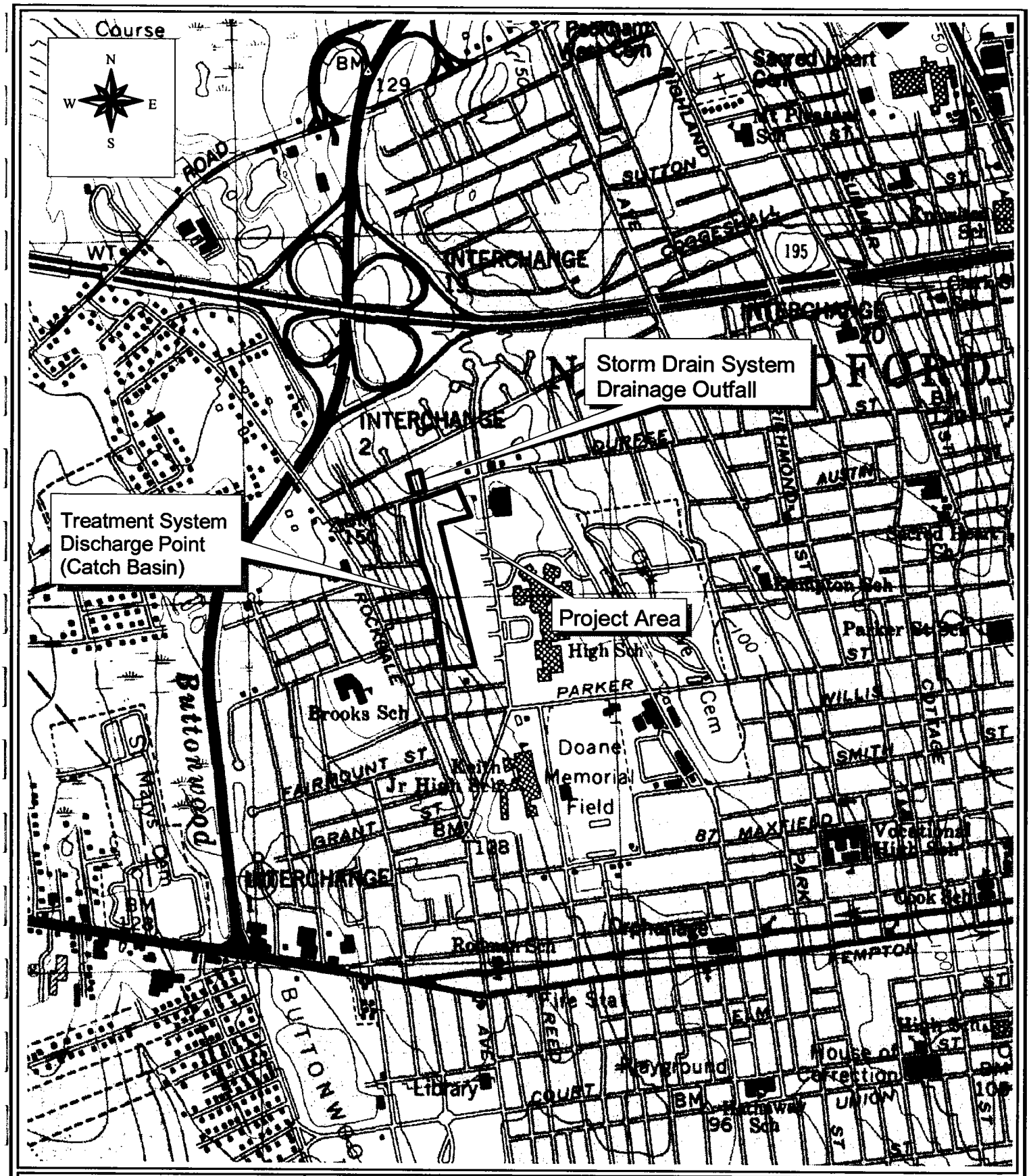
Operator signature: RC&D, of Providence, RI, is the selected contractor/operator. However, RC&D is not yet under contract, and this NOI is signed by the Engineer, (BETA).

Title: Sr. Proj. Mgr.

Date: 7-5-06

Figure 1

Site Locus Map



Legend

- Project Area
- Discharge Point
- Drain System Outfall

SCALE - 1:18,695

Source: MAGIS and USGS

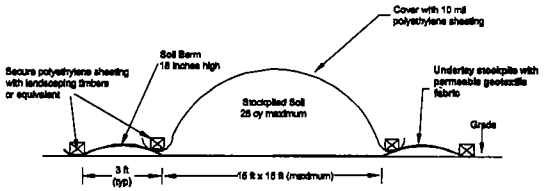
Keith Middle School
New Bedford, Massachusetts
Large Scale Locus

Figure 1
USGS Locus Map

BETA Group, Inc.

Figure 2

Site Plan (2 sheets)

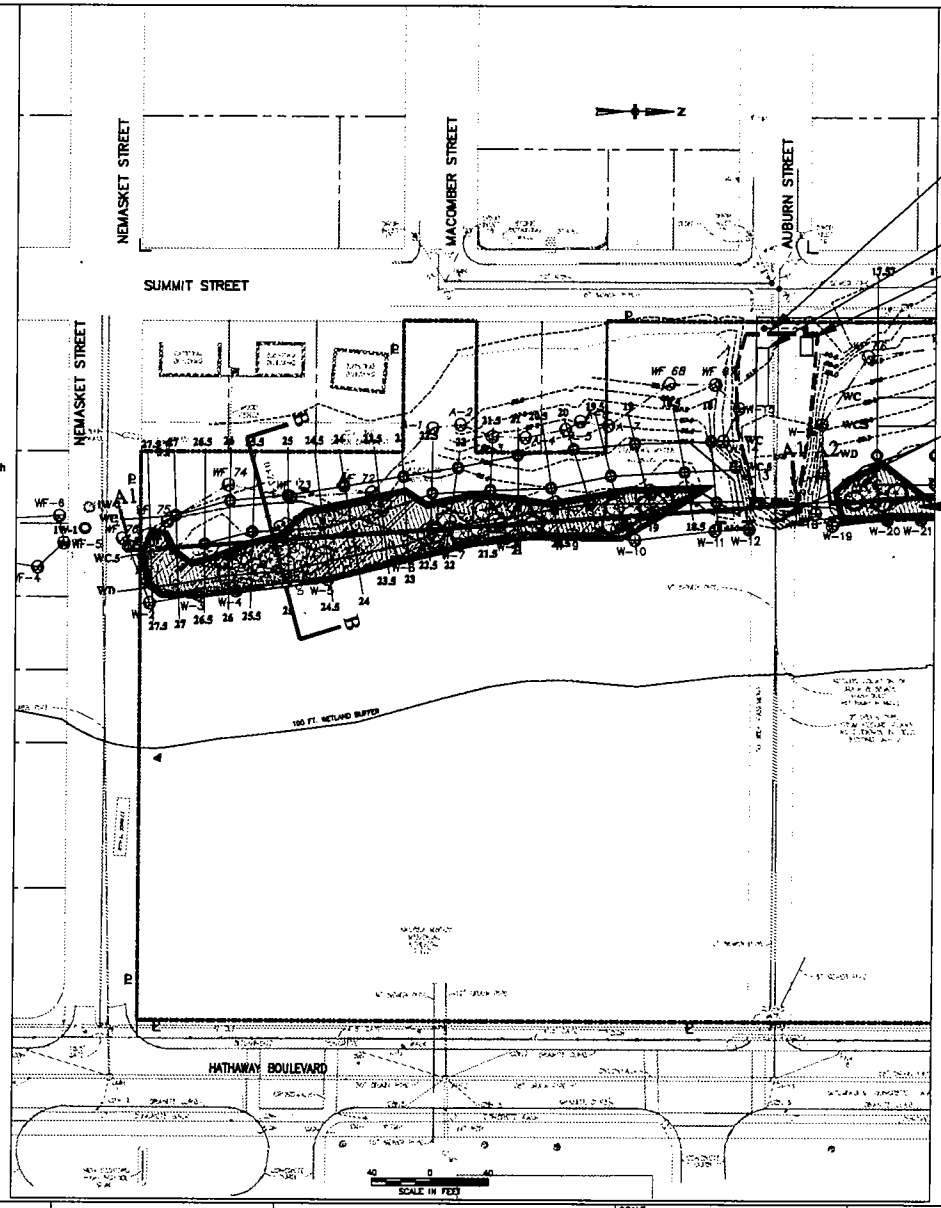


Note:
Soil berm to be constructed of clean topsoil from an approved off-site location.

TEMPORARY SOIL STOCKPILE DETAIL (NTS)

Notes:
1) Access to work areas shall be limited to the utility easement at Auburn Street & Summit Street.

Wetlands Filling and Replication:
1) A total of 991 square feet of wetlands have been filled during Phase I Site Remediation Activities.
2) A total of 2,457 square feet of wetlands have been replicated during Phase I Site Remediation Activities.



Construction Staging Area (within dashed black line & bounded by fence & bollards)

20,000-gallon Frac Tank

Temporary Soil Stockpile Area

Existing Chain Link Fence

See Sheet 2 for Remediation Area B

Legend
- Erosion Control (silt fencing & hay bales)
- Limits of remediation & restoration
- Area to be remediated & restored
- 8-foot wide temporary impact area *
- Wetland areas replicated during Phase I
- Wetlands filled during Phase I

* Access to this area is permitted only when access through the remediation area is obstructed and with the specific authorization of the New Bedford Conservation Commission.

NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION
1	6/26/06	BKL	BKL	Changed "Conservation Agent" to "Conservation Commission". Changed date to 6/26/06
2	6/30/06	BKL	BKL	Removed root barrier detail, wetlands filling/replication note, DEP submittal
3	7/5/06	JMS	JMS	Removed Infiltration Basin

REVISIONS

DRAWN BY: BKL
DEPT. CHECK: DGB
PROJ. CHECK: DGB

07/05/06

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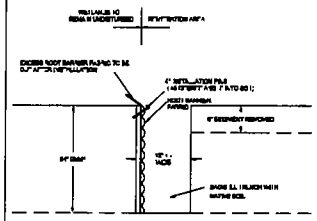
Engineers • Scientists • Planners
315 Norwood Park South
Norwood, MA 02062
781.255.1982 fax: 781.255.1974
email: BETA@BETA-Inc.com

SCALE: AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

WETLANDS SEDIMENT REMEDIATION AREA A (South)
McCOY FIELD/NEW KEITH MIDDLE SCHOOL

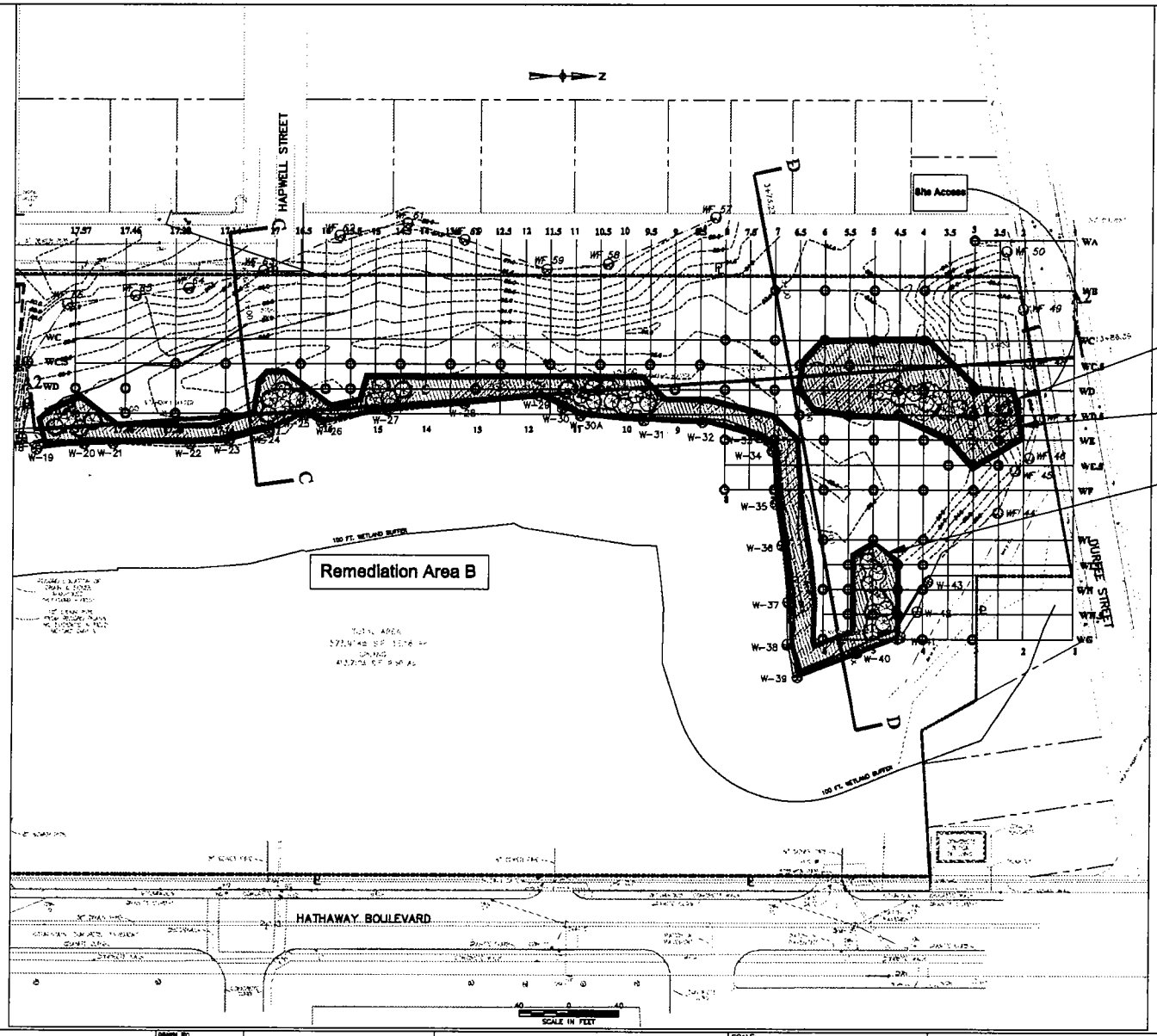
JOB: 2685
FILE NO.:
PLOT DATE:
SHEET: 1



ROOT BARRIER
DETAIL (NTS)

Notes:
1) Access to Remediation Areas A & B shall be limited to the utility easement at Auburn Street & Summit Street and at Durfee Street.

Wetlands Filling and Replication:
1) A total of 991 square feet of wetlands have been filled during Phase I Site Remediation Activities.
2) A total of 2,457 sqare feet of wetlands have been replicated during Phase I Site Remediation Activities.



Legend
- Erosion Control (silt fencing & hay bales)
- Limits of remediation & restoration
- Area to be remediated & restored
- 8-foot wide temporary impact area.*
- Wetland areas replicated during Phase I
- Wetlands filled during Phase I
- Root Barrier System

* Access to this area is permitted only when access through the remediation area is obstructed and with the specific authorization of the New Bedford Conservation Commission.

NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION
1	7/12/05	BKL	BKL	
2	8/11/05	BKL	BKL	
3	8/29/05	BKL	BKL	Changed "Conservation Agent" to "Conservation Commission". Changed date to 8/26/05
4	8/30/05	BKL	BKL	Added root barrier detail, wetlands filling/replication note, DEP submittal
5	7/3/06	JMS	JMS	Removed Infiltration Basin

REVISIONS

DRAWN BY: BKL
DEPT. CHECK: DGB
PROJ. CHECK: DGB

07/05/06

BETA Group, Inc.
Engineers · Scientists · Planners
315 Norwood Park South
Norwood, MA 02062
781.326.1922 fax: 781.326.1074
email: info@beta-inc.com

SCALE: AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

WETLANDS SEDIMENT REMEDIATION AREAS B & C (North)
McCOY FIELD/NEW KEITH MIDDLE SCHOOL

JOB: 2883
FILE NO.:
PLOT DATE:
SHEET: 2

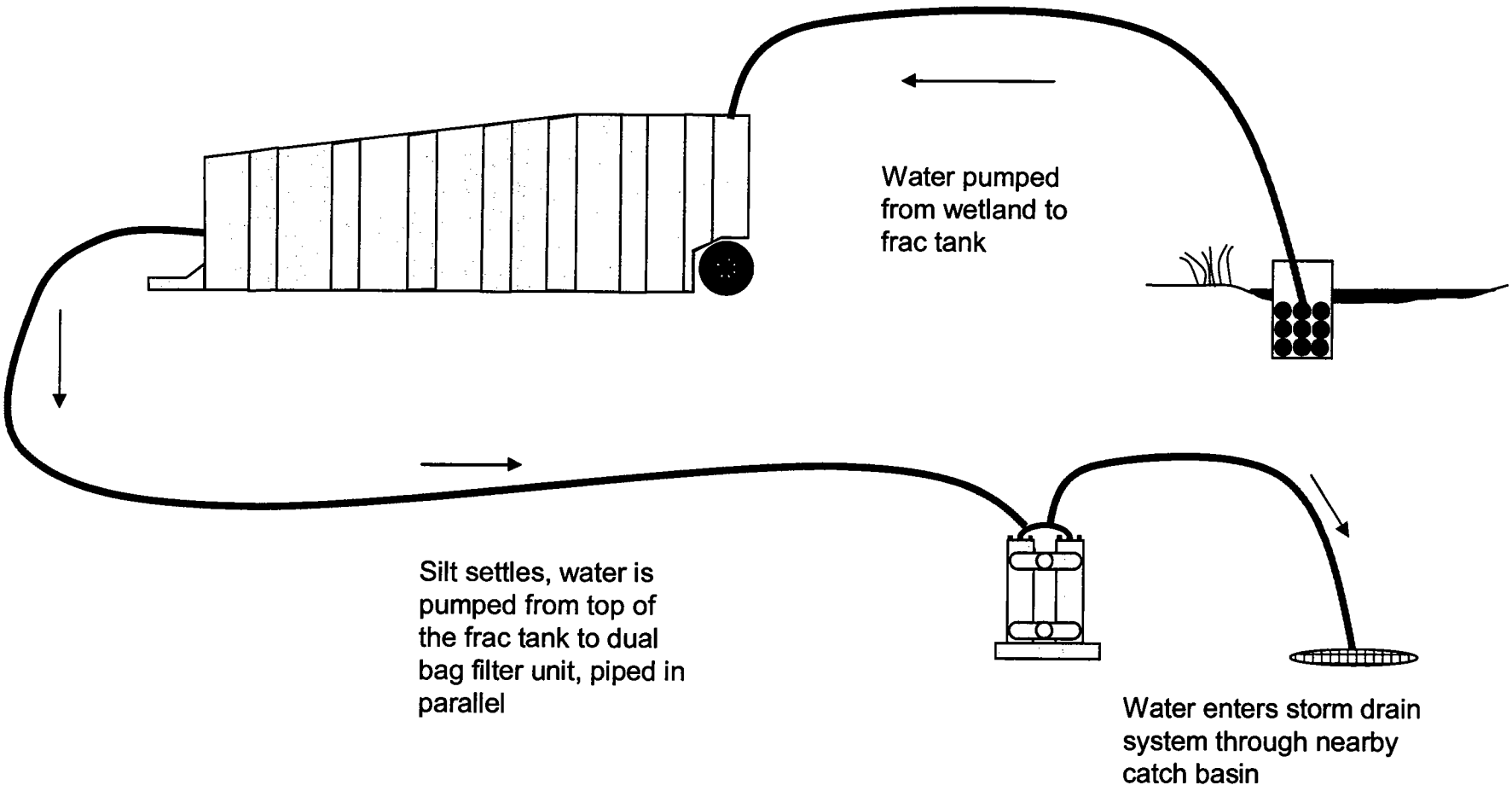
Figure 3

Treatment System Schematic

Treatment System Design Schematic

Wetland Remediation Dewatering

Keith Middle School, New Bedford



Appendix A

Correspondence with Federal and State Fish and Wildlife, Natural Heritage, And Historical Agencies

BETA Group, Inc.
Engineers • Scientists • Planners

315 Norwood Park South
Norwood, MA 02062
(781) 255-1982, fax (781) 255-1974
www.BETA-Inc.com

October 25, 2005

U.S. FWS Region 5
Supervisor
New England Field Office
US Fish and Wildlife Service
70 Commercial Street, Suite 300
Concord, NH 03301

To Whom It May Concern:

The City of New Bedford is preparing to conduct wetland remediation activities in the wetland located adjacent to the McCoy Field/Keith Middle School construction site. Approval to perform the proposed wetland remediation work has been granted by the US EPA, Massachusetts DEP, US Army Corps of Engineers, and the Massachusetts Environmental Policy Act. A contractor has been selected to perform the proposed work.

In order to properly excavate contaminated sediment, dewatering of the wetland area will be required. Discharge of pumped groundwater/surface water will be directed through a filtering system into an on-site storm drain detention system. Once leaving the detention system, water will enter the City storm drain system and will ultimately discharge to a nearby wetland, located adjacent to the Site. Dewatering activities require the completion of a Notice of Intent (NOI) for the Remediation General Permit (RGP).

The attached locus plan shows the location of the project site on the Mass. USGS 7.5x15 minute quadrangle map (Figure 1). The proposed discharge location is in the same area outlined as the Site.

We would appreciate your review and comment on this project and information on any Rare and Endangered Species or fisheries resources located within the project area. Should you require any additional information, please do not hesitate to call me at 781-255-1982.

Respectfully,

James M. Smith
Project Scientist

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Field Office
70 Commercial Street, Suite 300
Concord, New Hampshire 03301-5087

November 28, 2005

Reference:	Project	Location
	NOI, construction, remediation general permit	New Bedford, MA

James M. Smith
BETA Group, Inc.
315 Norwood Park South
Norwood, MA 02062

Dear Mr. Smith:

This responds to your recent correspondence requesting information on the presence of federally-listed and/or proposed endangered or threatened species in relation to the proposed activity(ies) referenced above.

Based on information currently available to us, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife 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 our 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 coordination. Please contact us at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Michael J. Amaral

Michael J. Amaral
Endangered Species Specialist
New England Field Office

BETA Group, Inc.
Engineers • Scientists • Planners

315 Norwood Park South
Norwood, MA 02062
(781) 255-1982, fax (781) 255-1974
www.BETA-Inc.com

October 25, 2005

Massachusetts Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
Route 135
Westborough, MA 01581

To Whom It May Concern:

The City of New Bedford is preparing to conduct wetland remediation activities in the wetland located adjacent to the McCoy Field/Keith Middle School construction site. Approval to perform the proposed wetland remediation work has been granted by the US EPA, Massachusetts DEP, US Army Corps of Engineers, and the Massachusetts Environmental Policy Act. A contractor has been selected to perform the proposed work.

In order to properly excavate contaminated sediment, dewatering of the wetland area will be required. Discharge of pumped groundwater/surface water will be directed through a filtering system into an on-site storm drain detention system. Once leaving the detention system, water will enter the City storm drain system and will ultimately discharge to a nearby wetland, located adjacent to the Site. Dewatering activities require the completion of a Notice of Intent (NOI) for the Remediation General Permit (RGP).

The attached locus plan shows the location of the project site on the Mass. USGS 7.5x15 minute quadrangle map (Figure 1). The proposed discharge location is in the same area outlined as the Site. The Massachusetts Natural Heritage Atlas does not indicate any Priority Habitats, Estimated Habitats of Rare Wildlife, or Vernal Pools within the vicinity of the project area.

We would appreciate your review and comment on this project and information on any Rare and Endangered Species resources located within the project area. Should you require any additional information, please do not hesitate to call me at 781-255-1982.

Respectfully,

James M. Smith
Project Scientist

BETA Group, Inc.
Engineers • Scientists • Planners

315 Norwood Park South
Norwood, MA 02062
(781) 255-1982 • fax (781) 255-1974
www.BETA-Inc.com

RECEIVED
JUL 22 2005
MASS. HIST. COMM

July 20, 2005

To: Distribution List

Re: McCoy Field-US Army Corps of Engineers Section 404 Permit Application

Enclosed, please find a copy of the Section 404 Permit Application (without attachments), submitted to the US Army Corps of Engineers on June 21, 2005 on behalf of the City of New Bedford. Included with the application form and cover letter are a Site Locus Map and Site Plans. A full version of the application package is on file with the US Army Corps of Engineers, New England District, Regulatory Office.

Questions regarding this submittal should be addressed to Alan D. Hanscom at (781) 255-1982.

Very truly yours,

BETA Group, Inc.

James Smith
Project Scientist

Cc: Massachusetts Historical Commission
Narragansett Tribal Historic Preservation Officer
Wampanoag Tribal Historic Preservation Officer
US Army Corps of Engineers, New England District, Regulatory Office.

After review of MHC files and the materials you submitted, it has been determined that this project is unlikely to affect significant historic or archaeological resources.

Margo M. Davis 7/27/05

Margo Mehl Davis Date
Archaeologist/Preservation Planner RC 28630
Massachusetts Historical Commission

Appendix B

Laboratory Analytical Data

REPORT OF ANALYTICAL RESULTS

NETLAB Case Number Q0927-07

Prepared for:

Attn: Jim Smith
BETA Group, Inc.
315 Norwood Park South
Norwood, MA 02062

Report Date: October 11, 2005

Lab # RI010

Electronic Copy

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue, North Providence, RI 02904
(401) 353-3420

Total # of Pages: 31

ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: New England Testing Laboratory, Inc. Project #: 2685

Project Location: McCoy Field – Wetland Remediation RTN[1]:

This form provides certifications for the following data set: Q0927-07

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

SW-846 Methods Used					
	8260B ( )	8151A ( )	8330 ( )	6010B (X)	7470A/1A (X)
	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9014M[2] ( )
	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other: (X)

1 List Release Tracking Number (RTN), if known
2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
3 S – SW-846 Methods 7000 Series List individual method and analyte

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

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	Yes (X) No[1] ( )
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes (X) No[1] ( )
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No[1] ( ) Not Applicable ( )
D	***VPH and EPH Methods only***: Was the VPH and EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	Yes ( ) No[1] ( )

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

E	Were all QC performance standards and recommendations for the specified methods achieved?	Yes (X) No[1] ( )
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes (X) No[1] ( )

[1]*All NO answers must be addressed in an attached Environmental Laboratory case narrative.*

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

Signature: Jodi Lyons Position: Director, Inorganics

Printed Name: Jodi Lyons Date: 11/9/2005

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on September 27, 2005. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. The case number for this sample submission is Q0927-07.

Custody records are included in this report.

Site: McCoy Field – Wetland Remediation

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
WS-1	9/27/05	Water	Table II

CASE NARRATIVE:

Sample Receipt:

No sample for ms/msd/duplicate analysis was supplied. No trip blank or field blank was supplied. (This does not qualify the analytical results but does prevent conducting these SW-846 {Chapter 1, Section 3.4} QA Audits.)

The samples were all appropriately cooled upon receipt. Sample for total cyanide was preserved upon receipt.

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

Metals:

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. Additional sample for duplicate and matrix spike sample analyses was not provided or requested by the client. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

Volatile Organics:

An extended 624 compound list was reported per client request.

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

Semivolatiles:

An extended 625 compound list was reported per client request.

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

PCBs:

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

The sample"WS-1" formed an emulsion and mechanical means were used to break up this nonconformance. The surrogates were below the acceptable limits as a result of a matrix effect.

There were no other anomalies or non-conformances encountered.

General Chemistry:

TSS: No anomalies or excursions from QC limits
Residual Chlorine: No anomalies or excursions from QC limits
Hexavalent Chromium: No anomalies or excursions from QC limits
Cyanide: No anomalies or excursions from QC limits
Total Petroleum Hydrocarbons: No anomalies or excursions from QC limits

Case No. Q0927-07

WS-1

Parameter	Result, mg/l	Reporting Limit	Date Analyzed
Total Suspended Solids	10	1	9/29/05
Residual Chlorine	N.D.	0.1	9/27/05
Hexavalent Chromium	N.D.	0.05	9/27/05 @ 18:40
Trivalent Chromium	N.D.	0.01	9/27/05, 9/30/05
Total Cyanide	N.D.	0.01	9/30/05
Total Petroleum Hydrocarbons	N.D.	2	10/5/05

N.D. = Not Detected

METALS RESULTS

NETLAB

Case Number: Q0927-07
Sample ID: WS-1
Date collected: 09/27/05
Matrix WATER
Sample Type: TOTAL

Analyst CC/RM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Antimony	7440-36-0	NA	200.7	ND	0.005	0.005	mg/l	9/28/05	9/30/05
Arsenic	7440-38-2	NA	3113B	ND	0.005	0.005	mg/l	9/29/05	10/7/05
Cadmium	7440-43-9	NA	3113B	ND	0.0005	0.0005	mg/l	9/29/05	9/30/05
Chromium	7440-47-3	NA	200.7	ND	0.005	0.005	mg/l	9/28/05	9/30/05
Copper	7440-50-8	NA	200.7	0.02	0.02	0.02	mg/l	9/28/05	9/30/05
Iron	7439-89-6	NA	200.7	3.92	0.05	0.05	mg/l	9/28/05	9/30/05
Lead	7439-92-1	NA	200.7	0.007	0.005	0.005	mg/l	9/28/05	9/30/05
Mercury	7439-97-6	NA	245.1	ND	0.0002	0.0002	mg/l	9/29/05	9/29/05
Nickel	7440-02-0	NA	200.7	0.005	0.005	0.005	mg/l	9/28/05	9/30/05
Selenium	7782-49-2	NA	200.7	ND	0.01	0.01	mg/l	9/28/05	9/30/05
Silver	7440-22-4	NA	200.7	ND	0.005	0.005	mg/l	9/28/05	9/30/05
Zinc	7440-66-6	NA	200.7	0.17	0.02	0.02	mg/l	9/28/05	9/30/05

ND indicates not Detected

LABORATORY CONTROL SAMPLE RECOVERY

Parameter	True Value	Result	Units	Recovery, %	LCL, %	UCL, %	Date Analyzed
Antimony	1.000	0.989	mg/l	98.9	89	108	9/29/05
Arsenic	0.0400	0.04452	mg/l	111	76	113	10/7/05
Cadmium	0.00500	0.00475	mg/l	95.0	80	122	9/30/05
Chromium	1.000	0.985	mg/l	98.5	89	110	9/29/05
Copper	1.000	1.05	mg/l	105	87	113	9/29/05
Iron	1.000	1.09	mg/l	109	74	122	9/29/05
Lead	1.000	1.04	mg/l	104	87	112	9/29/05
Mercury	0.00100	0.000999	mg/l	99.9	89	114	9/29/05
Nickel	1.000	1.00	mg/l	100	89	109	9/29/05
Selenium	1.000	0.977	mg/l	97.7	83	113	9/29/05
Silver	1.000	0.958	mg/l	95.8	85	111	9/29/05
Zinc	1.000	1.00	mg/l	100	91	110	9/29/05

NELLAB

Sample: WS-1

Case No. Q0927-07
Date Extracted: 10/3/05
Date Analyzed: 10/5/05

Subject: PCBs
Method: EPA 608

Compound	Concentration ug/l (ppb)	Reporting Limit
PCB-1016	N.D.	0.2
PCB-1221	N.D.	0.4
PCB-1232	N.D.	0.2
PCB-1242	N.D.	0.2
PCB-1248	N.D.	0.2
PCB-1254	N.D.	0.2
PCB-1260	N.D.	0.2

Surrogates:

Compound	% Recovery	Limits
TCMX	10	25-141
DCBP	15	41-156

PCB Laboratory Control Spike

Sample Matrix: Soil			Analyst:	DC
Subject: PCB	Date Extracted			Date Analyzed
Prep Method: EPA 3541	10/3/05			10/3/05
Analytical Method: EPA 8082				
Compound	Amount Spiked mg/kg	Result mg/kg	Recovery %	Recovery Limits
1254-1	0.5	0.6	120	40-140
Surrogates:				
Compound	% Recovery	Limits		
TCMX	80	19-139		
DCBP	100	29-155		

NETLAB

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0927-07

Method: 624

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/ml) ML

% Moisture

Soil Extract Volume: (uL)

Analyst's Initials:

Client Name: BETA Group, Inc.

Lab Sample ID: WS-1

Lab File ID: OCT0811.D

Date Sampled: 9/27/2005

Date Analyzed: 10/8/2005

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	UNITS: ug/L	Q
75-01-4	Vinyl Chloride	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-09-2	Methylene Chloride	2.0	U
1634-04-4	tert-Butyl methyl ether	2.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
75-65-0	tert butyl Alcohol	1.0	U
994-05-8	tert-amyl methyl ether	1.0	U
123911	1,4-Dioxane	1.0	U
106-93-4	Ethylene Dibromide	1.0	U
108-88-3	Toluene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
75-87-3	Chloromethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: New England Testing Lab Contract: McCoy Field- Wet

Lab Code: RI010 Case No.: Q0927-07 SAS No.: _____ SDG No.: BETA Gro

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VBLK051007	102	96	91	0
02	WS-1	104	97	91	0
03	VLCS051007G	94	100	99	0

QC LIMITS

SMC1	=	1,2-Dichloroethane-D4	(76-130)
SMC2	=	Toluene-D8	(85-124)
SMC3	=	Bromofluorobenzene	(77-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

New England Testing Laboratory, Inc.

FORM II VOA-1

NETLAB

Volatile Organics Laboratory Control Spike

Date Analyzed: 10/9/05 **Sample ID: VLCS051008**

Compound	Spike Added (ug/L)	Spike Result (ug/L)	Recovery, %	Lower Control Limit, %	Upper Control Limit, %
Bromobenzene	50	55	110	78	116
1,2,3-Trichloropropane	50	51	102	76	120
n-Propylbenzene	50	53	106	75	118
2-Chlorotoluene	50	53	106	73	114
1,3,5-Trimethylbenzene	50	51	103	74	117
4-Chlorotoluene	50	53	106	72	115
tert-Butylbenzene	50	53	106	80	137
1,2,4-Trimethylbenzene	50	51	103	72	118
sec-Butylbenzene	50	51	102	73	114
p-Isopropyltoluene	50	51	102	72	140
1,3-Dichlorobenzene	50	52	104	69	116
1,4-Dichlorobenzene	50	53	105	69	117
n-Butylbenzene	50	52	104	65	130
1,2-Dichlorobenzene	50	52	104	73	113
1,2-Dibromo-3-chloropropane	50	54	108	46	138
1,2,4-Trichlorobenzene	50	56	113	35	157
Naphthalene	50	55	110	17	186
1,2,3-Trichlorobenzene	50	56	112	32	186

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0927-07

Method: 625

Matrix: (soil/water/air) WATER

Sample wt/vol: 1000 (g/ml) ML

Level: (low/med) LOW

% Moisture: _____

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1.0 (uL)

Analyst's Initials: KJK

Client Name: BETA Group, Inc.

Lab Sample ID: WS-1

Lab File ID: OCT0616.D

Date Sampled: 9/27/2005

Date Extracted: 10/4/2005

Date Analyzed: 10/6/2005

Dilution Factor: 1.0

CAS NO.	COMPOUND	UNITS: UG/L	Q
108-95-2	Phenol	1.0	U
95-57-8	2-Chlorophenol	1.0	U
95-48-7	2-Methylphenol	1.0	U
106-44-5	4-Methylphenol	1.0	U
88-75-5	2-Nitrophenol	1.0	U
105-67-9	2,4-Dimethylphenol	1.0	U
120-83-2	2,4-Dichlorophenol	1.0	U
91-20-3	Naphthalene	1.0	U
59-50-7	4-Chloro-3-methylphenol	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
88-06-2	2,4,6-Trichlorophenol	1.0	U
95-95-4	2,4,5-Trichlorophenol	1.0	U
131-11-3	Dimethyl phthalate	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
51-28-5	2,4-Dinitrophenol	1.0	U
100-02-7	4-Nitrophenol	1.0	U
84-66-2	Diethyl phthalate	1.0	U
86-73-7	Fluorene	1.0	U
534-52-1	4,6-Dinitro-2-methylphenol	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
84-74-2	Di-n-butylphthalate	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
218-01-9	Chrysene	1.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	3.0	U
117-84-0	Di-n-octyl phthalate	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: Q0927-07

Method: 625

Matrix: (soil/water/air) WATER

Sample wt/vol: 1000 (g/ml) ML

Level: (low/med) LOW

% Moisture:

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1.0 (uL)

Analyst's Initials: KJK

Client Name: BETA Group, Inc.

Lab Sample ID: SBLK100405

Lab File ID: OCT0614.D

Date Sampled: 9/27/2005

Date Extracted: 10/4/2005

Date Analyzed: 10/6/2005

Dilution Factor: 1.0

CAS NO.	COMPOUND	UNITS: UG/L	Q
108-95-2	Phenol	1.0	U
95-57-8	2-Chlorophenol	1.0	U
95-48-7	2-Methylphenol	1.0	U
106-44-5	4-Methylphenol	1.0	U
88-75-5	2-Nitrophenol	1.0	U
105-67-9	2,4-Dimethylphenol	1.0	U
120-83-2	2,4-Dichlorophenol	1.0	U
91-20-3	Naphthalene	1.0	U
59-50-7	4-Chloro-3-methylphenol	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
88-06-2	2,4,6-Trichlorophenol	1.0	U
95-95-4	2,4,5-Trichlorophenol	1.0	U
131-11-3	Dimethyl phthalate	1.0	U
208-96-8	Acenaphthylene	1.0	U
83-32-9	Acenaphthene	1.0	U
51-28-5	2,4-Dinitrophenol	1.0	U
100-02-7	4-Nitrophenol	1.0	U
84-66-2	Diethyl phthalate	1.0	U
86-73-7	Fluorene	1.0	U
534-52-1	4,6-Dinitro-2-methylphenol	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-86-5	Pentachlorophenol	5.0	U
85-01-8	Phenanthrene	1.0	U
120-12-7	Anthracene	1.0	U
84-74-2	Di-n-butylphthalate	1.0	U
206-44-0	Fluoranthene	1.0	U
129-00-0	Pyrene	1.0	U
56-55-3	Benzo(a)anthracene	1.0	U
218-01-9	Chrysene	1.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	3.0	U
117-84-0	Di-n-octyl phthalate	1.0	U
205-99-2	Benzo(b)fluoranthene	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

FORM I SV-1

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: New England Testing Lab Case No.: Q0927-07

Lab Code: RI010 Client Name: BETA Group, Inc.

	Sample ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
01	SBLK100405	43	31	71	53	81	92	0
02	WS-1	30	19	61	52	104	78	0
03	SLCS100405	76	77	88	82	164	95	0

QC LIMITS

S1	=	2-Fluorophenol	(9-132)
S2	=	Phenol-d6	(1-114)
S3	=	Nitrobenzene-d5	(36-121)
S4	=	2-Fluorobiphenyl	(41-110)
S5	=	2,4,6-Tribromophenol	(46-166)
S6	=	Terphenyl-d14	(40-158)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

New England Testing Laboratory, Inc.

NEW ENGLAND TESTING LABORATORY, INC.
1254 Douglas Avenue
North Providence, RI 02904

Q0927.07

CHAIN OF CUSTODY RECORD

PROJ. NO.: 2685
PROJECT NAME: McCoy Field - Wetland Remediation
CLIENT: BETA Group - James Smith

5-day TAT.

SAMPLE I.D.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS (Bf)	TESTS: VOC-8260 (HCl)	SVOC-8270 (NP)	TPH-1664 (NP)	PCB-~~1668~~ 608 (NP)	Total Metals-(HNO3)	TSS, Tot. Res. Chlorine (NP)	Chromium (III) (NP)	Cyanide-NaOH (1)	REMARKS
	9/27/05	9:00		X	WS-1	(11)	X	X	X	X	X	X	X	X	
															PCB method changed as per J. Smith 9/28
															needs 0.5 ppb limit for PCBs

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	9/27/05 10:30				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	
		A Sweeney	9/27/05 1219	Metals include: Sb, As, Cd, Cr(III), Cu, Pb, Hg, Ni, Se, Ag, Zn, Fe	

Temp 2.