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

CERTIFIED MAIL RETURN RECEIPT REQUESTED

NOV 02 2011

Joe Cruz,
Site Superintendent
J. Derenzo Company
338 Howard Street
Brockton, MA 02302

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Chestnut Hill Square site located at 200-230 Boylston Street, Newton, MA 02459, Middlesex County; Authorization # MAG910507

Dear Mr. Cruz:

Based on the review of a Notice of Intent (NOI) submitted on behalf of NED Chestnut Hill LLC, by your firm J. Derenzo Co., for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The checklist enclosed with this RGP authorization indicates the pollutants which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the checklist does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of this permit, including influent and effluent monitoring, narrative water quality standards, record keeping, and reporting requirements, found in Parts I and II, and Appendices I – VIII of the RGP. See EPA's website for the complete RGP and other information at: http://www.epa.gov/region1/npdes/mass.html#dgp.

Please note the enclosed checklist includes parameters that exceeded Appendix III limits. The checklist also includes other parameters for which your laboratory reports indicated there was insufficient sensitivity to detect these parameters at the minimum levels established in Appendix VI of the RGP.

Also, the metals limits included on the checklist are dilution dependent pollutants and subject to limitations based on a dilution factor range (DFR). With the limited dilution (1.45) at Saw Mill Brook, EPA determined that the DFR for each parameter is in the one and five (1-5) range. (See the RGP Appendix IV for Massachusetts facilities)

Therefore, the limits for arsenic of 14.5 ug/L, cadmium of 0.29 ug/L, trivalent chromium of 70.76 ug/L, copper of 7.54 ug/L, lead of 1.89 ug/L, nickel of 42.05 ug/L, selenium of 7.25 ug/L, zinc of 96.57 ug/L and iron of 1,450 ug/L, are required to achieve permit compliance at your site. Please note the above limits are higher than the base limits, this is to reflect RGP provisions made for discharges to low (1-5) dilution. For more information on the limits increase see Footnote 11 indicated at the end of the attached permit list.

Finally, please note the checklist of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. A recertification can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP regulations.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on January 1, 2012. If for any reason the discharge terminates sooner you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

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

Sincerely,

David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP
Bradd Biagini, J. Derenzo Co.

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Authorization Number:	**MAG910507**
Authorization Issued:	October, 2011
Facility/Site Name:	Chestnut Hill Square
Facility/Site Address:	200-300 Boylston Street, Newton, MA 02459, Middlesex County
	Email address of owner: jkeefe@nedevelopment.com
Legal Name of Operator:	J. Derenzo Company
Operator contact name, title, and Address:	Joe Cruz, Site Superintendent, 338 Howard Street, Brockton, MA 02302, Plymouth Company
	Email: jcruz@jderenzo.com
Estimated Date of Completion:	January 1, 2012
Category and Sub-Category:	Petroleum Related Site Remediation. Subcategory B. Fuel Oils and Other Oils Sites, Also, Contaminated Construction Dewatering. Sub-category A and B. General Urban Fill Sites and Known Contaminated Sites, respectively
RGP Permit Termination Date:	September 10, 2015
Receiving Water:	Saw Mill Brook in Brookline MA

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

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
√	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing **, Me#60.2/ML5ug/L
	2. Total Residual Chlorine (TRC) [1]	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
√	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
√	4. Cyanide (CN) [2, 3]	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 10ug/L
	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes	100 ug/L/ Me#8260C/ ML 2ug/L

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

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

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11/12]	Minimum level=ML
		Freshwater	
	39. Antimony	5.6/ML 10	

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11/12] Freshwater		Minimum level=ML	
√	40. Arsenic **	14.5/ML20			
√	41. Cadmium **	0.29/ML10			
√	42. Chromium III (trivalent) **	70.76/ML15			
	43. Chromium VI (hexavalent) **	11.4/ML10			
√	44. Copper **	7.54/ML15			
√	45. Lead **	1.89/ML20			
	46. Mercury **	0.9/ML0.2			
√	47. Nickel **	42.05/ML20			
√	48. Selenium **	7.25/ML20			
√	49. Silver	1.74/ML10			
√	50. Zinc **	96.57/ML15			
√	51. Iron	1,450/ML 20			

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

Footnotes:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[14] Temperature sampling per Method 170.1

Alvarez

J. DERENZO CO.

338 Howard Street
Brockton, MA 02302
Bus: 508-427-6441

MAG910507

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

October 14, 2011
File No. 1856.11

Re: Notice of Intent for the Remediation General Permit
Temporary Construction Dewatering at Chestnut Hill Square for
Site Redevelopment and Remediation
Chestnut Hill Square, Newton, Massachusetts

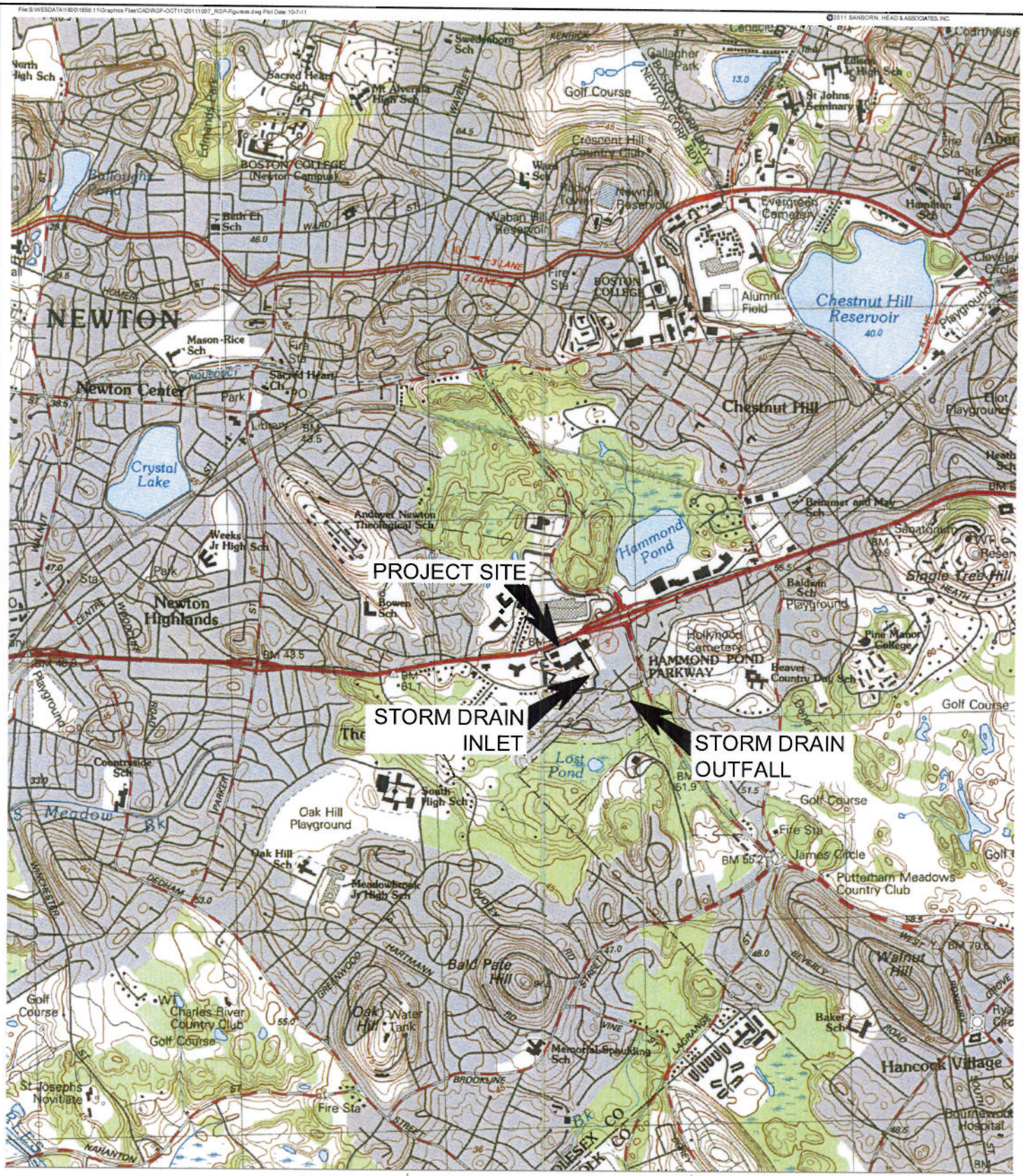
Dear Sir/Madam:

On behalf of NED Chestnut Hill LLC, J. Derenzo Company, (Derenzo) has submitted this Notice of Intent (NOI) to the USEPA for coverage under the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) MAG910000. This letter and supporting documentation were prepared in accordance with the U.S. EPA guidance for construction dewatering under the RGP program. Derenzo is the earthwork contractor for the project and will have direct responsibility for the dewatering activities within various sub-areas of the Project Site. All subcontractors working for Derenzo on the project will be required to meet the requirements of this NOI and the RGP. The location of storm drain outfall is shown on Figure 1 and the extent of the Project Site is shown on Figure 2.

Construction activities associated with the redevelopment of the Project Site and remediation in one small portion of the Project Site are planned for the Chestnut Hill Square development, which is located south of Route 9 in Newton, Massachusetts (Figure 1). The redevelopment activities include the installation of new utility systems and the earthwork required to prepare the Project Site for the construction of three new buildings and a parking garage. In one portion of the Project Site, it is anticipated that soils contaminated with fuel oil and potentially free phase fuel oil will be encountered in the subsurface. The Massachusetts Department of Environmental Protection (DEP) has assigned a Release Tracking Number (RTN) 3-25099 to this property under the Massachusetts Contingency Plan (310 CMR 40.0000). A soil remediation excavation is planned on the Project Site in the vicinity of a former 5,000-gallon fuel oil UST, which was removed from the Project Site in November 2005. The anticipated fuel oil remediation area is shown on Figure 2. The oil and/or hazardous material (OHM) observed at this RTN is light non-aqueous phase liquid (LNAPL), which was observed in a monitoring well installed in June 2006 in the vicinity of the former UST.

According to the Massachusetts Geographical Information System (MassGIS), the excavation activities will not impact Areas of Critical Environmental Concern (ACEC) or

FIGURES



NOTES:
Base map taken from "Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts Executive Office of Environmental Affairs"
7.5 minute USGS Quadrangle Maps: Newton, Massachusetts, REV: 1987

Drawn By: R.Hirtle
Designed By: L.Garvey
Reviewed By: P.Pinto
Project No: 1856.11
Date: October 2011

SCALE: 1:25,000

SANBORN HEAD

FIGURE 1

Locus Plan

Notice of Intent for Remediation General Permit

NED Chestnut Hill LLC
Newton, Massachusetts

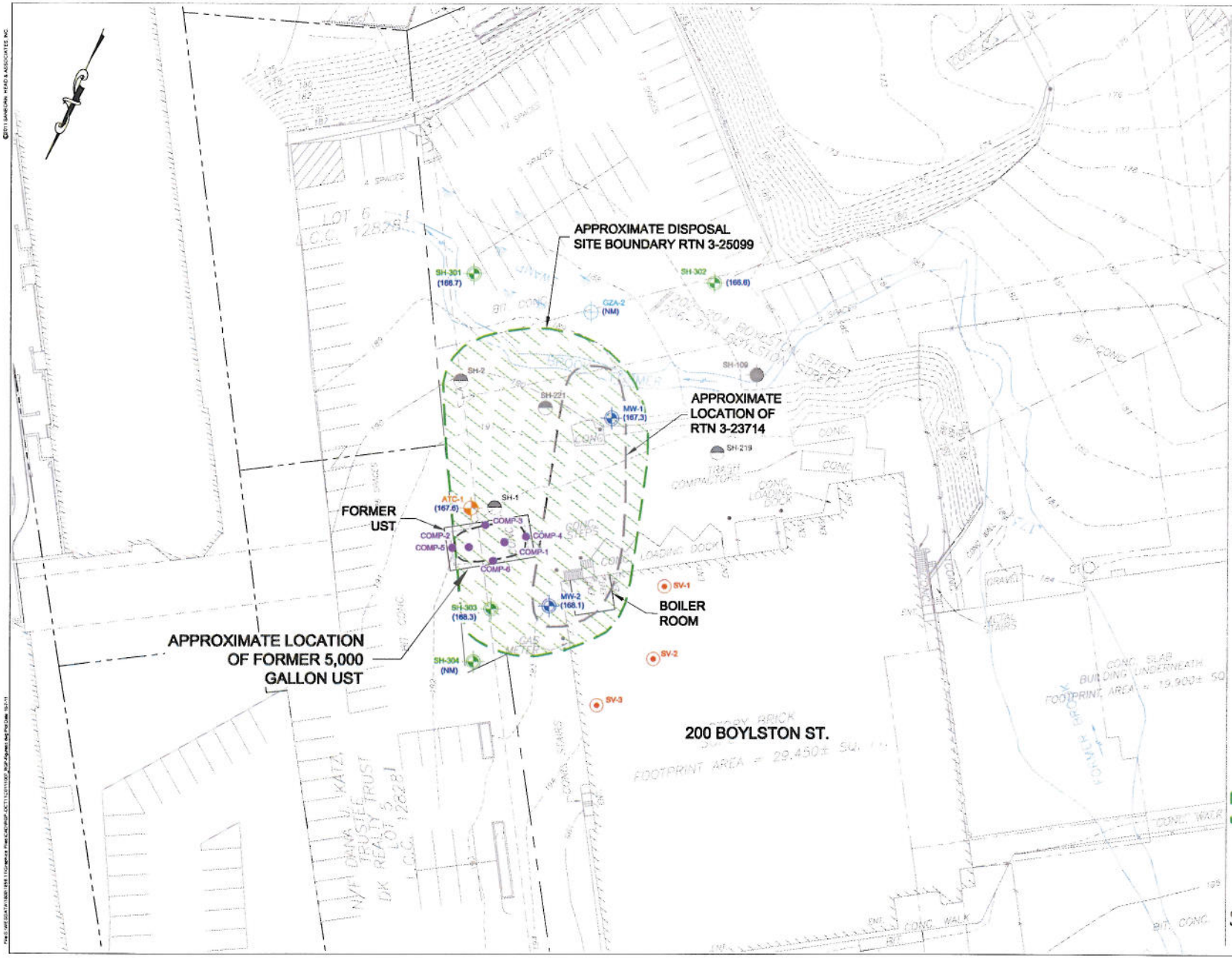


Figure No. 2

Location of Proposed Excavation

Notice of Intent for Remediation General Permit

NED Chestnut Hill LLC
Newton, Massachusetts

Drawn By: R.Hirtle
Designed By: R.Cook
Reviewed By: P.Pinto
Project No: 1856.11
Date: October 2011

Figure Narrative

The base plan was adapted from a plan prepared by Harry R. Feldman, Inc. (Feldman) of Boston, MA, entitled "Topographic Site Plan", dated September 25, 2002 and was provided to Sanborn, Head & Associates, Inc of Westford,MA on March 2, 2005 by Dewberry-Goodkind, Inc. of Boston, MA

The location of the site and site features shown should be considered approximate.

The monitoring well designated GZA-2 was completed by GZA Geoenvironmental, Inc. of Newton Upper Falls, MA, in October 2000.

The locations of the soil test borings and auger probes are based on tape measurements from existing site features shown on the Feldman plan. The elevations of the soil test borings and auger probes were estimated by Sanborn Head by interpolating between ground surface contours of the existing topography shown on the Feldman plan. The locations of test borings designated SH-1, SH-101, SH-201 were surveyed by Feldman. The locations of the GZA borings were taken from a plan entitled "Site Plan" dated May 18, 2005 and prepared by ATC Associates, Inc. (ATC).

Legend

- Test borings completed by Sanborn Head in August 2002 & April 2006
- Auger probes completed by Sanborn Head in February 2003
- Test borings completed by GZA Geoenvironmental Inc. in October 2000
- Monitoring well installed by CYN
- Monitoring well installed by Sanborn Head in June 2006
- Soil vapor screening location
- Confirmatory soil sampling location
- Monitoring well installed by ATC
- Groundwater elevations observed on June 24, 2011
- Area of Proposed Excavation

SANBORN HEAD

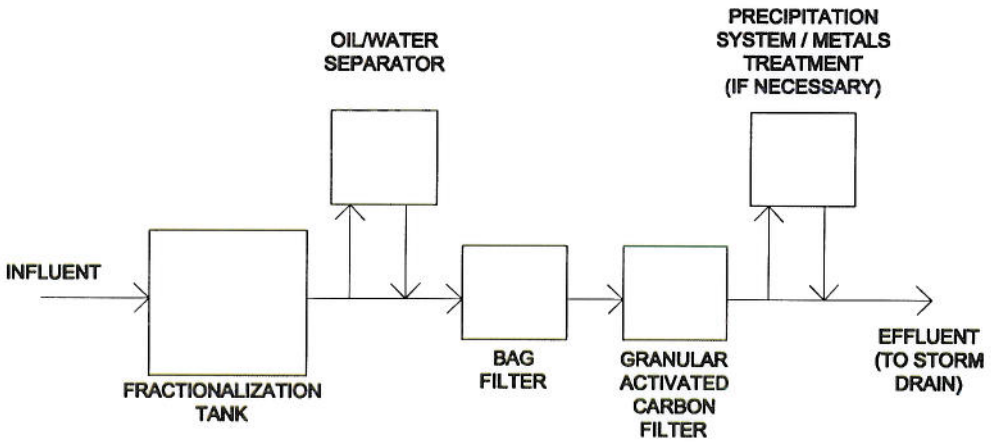


Figure No. 3

Proposed Groundwater Treatment Schematic

Notice of Intent for Remediation General Permit

NED Chestnut Hill LLC
Newton, Massachusetts

Drawn By: R.Hirtle
Designed By: L.Garvey
Reviewed By: D.Wood
Project No: 1856.11
Date: October 2011

Notes

Details of treatment system may vary from the system indicated on left. Specific means and methods of treatment are to be selected by the subcontractor. Water discharged at the effluent point shall meet required effluent standards as specified in Appendix III and IV of the RGP.

NOT TO SCALE

SANBORN HEAD

APPENDIX A

NOTICE OF INTENT FORM

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

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

a) Name of **facility/site:** Chestnut Hill Square		**Facility/site** mailing address:			
Location of **facility/site:** longitude: -71.175996 latitude: 42.319429	Facility SIC code(s): N/A	Street: Facility: 200-230 Boylston Street Mailing: NED Chestnut Hill LLC One Wells Avenue, Newton Center, MA 02459			
b) Name of **facility/site owner:** NED Chestnut Hill LLC		Town: Newton			
Email address of facility/site owner: jkeefe@nedevelopment.com		State: MA	Zip: 02459	County: Middlesex	
Telephone no. of facility/site **owner:** 617-965-8700					
Fax no. of facility/site **owner:** 617-243-7315		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ○ 3. Private ⊙ 4. Other ○ if so, describe:			
Address of **owner** (if different from site):					
Street: One Wells Avenue					
Town: Newton Center	State: MA	Zip: 02459	County: Middlesex		
c) Legal name of **operator:**		**Operator** telephone no: 781-858-7930			
J. Derenzo Company		**Operator** fax no.: 508-427-6488	**Operator** email: jcruz@jderenzo.com		
Operator contact name and title: Joe Cruz, Site Superintendent					
Address of **operator** (if different from owner):	Street: 338 Howard Street				
Town: Brockton	State: MA	Zip: 02302	County: Plymouth		

d) Check Y for "yes" or N for "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Y ○ N ◉, if Y, number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge?
Y ○ N ◉, if Y, date and tracking #:
3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Y ◉ N ○
4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y ◉ N ○

e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y ◉ N ○
If Y, please list:
1. site identification # assigned by the state of NH or MA: RTN-25099
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:

MassDEP Northeast Region
Wilmington, Massachusetts
978-694-3200

f) Is the site/facility covered by any other EPA permit, including:
1. Multi-Sector General Permit? Y ○ N ◉,
if Y, number:
2. Final Dewatering General Permit? Y ○ N ◉,
if Y, number:
3. EPA Construction General Permit? Y ◉ N ○,
if Y, number: MAR10DS53
4. Individual NPDES permit? Y ○ N ◉,
if Y, number:
5. any other water quality related individual or general permit? Y ○
N ◉, if Y, number:

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

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

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

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

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

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

Temporary construction dewatering in support of MCP remediation efforts required to prepare site for a redevelopment project.

b) Provide the following information about each discharge:

1) Number of discharge points: 1

2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)?
Max. flow 0.22 Is maximum flow a **design value**? Y ○ N ◉
Average flow (include units) 0.11 Is average flow a design value or estimate? Estimate

3) Latitude and longitude of each discharge within 100 feet:

pt.1: lat	42.316344	long	-71.170264	pt.2: lat.		long.	;
pt.3: lat		long		pt.4: lat.		long.	;
pt.5: lat		long		pt.6: lat.		long.	;
pt.7: lat		long		pt.8: lat.		long.	; etc.

4) If hydrostatic testing, total volume of the discharge (gals):

5) Is the discharge intermittent ○ or seasonal ○ ?
Is discharge ongoing? Y ◉ N ○

c) Expected dates of discharge (mm/dd/yy): start October 24, 2011 end January 1, 2012

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

3. Contaminant information.

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

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids (TSS)		☐	☒	1	Composite	2540D	10,000	190,000			
2. Total Residual Chlorine (TRC)		☒	☐	1	Composite	4500CL-D	20	ND			
3. Total Petroleum Hydrocarbons (TPH)		☐	☒	1	Composite	1664A	4,400	13,200			
4. Cyanide (CN)	57125	☒	☐	1	Composite						
5. Benzene (B)	71432	☒	☐	1	Composite	624	1.0	ND			
6. Toluene (T)	108883	☒	☐	1	Composite	624	1.0	ND			
7. Ethylbenzene (E)	100414	☒	☐	1	Composite	624	1.0	ND			
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☒	☐	1	Composite	624	3.0	ND			
9. Total BTEX [2]	n/a	☒	☐	1	Composite	624	6.0	ND			
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	1	Composite	504.1	0.010	ND			
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	1	Composite	624	20	ND			
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	1	Composite	624	100	ND			

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

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

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

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
13. tert-Amyl Methyl Ether (TAME)	9940508	☒	☐	1	Composite	624	20	ND			
14. Naphthalene	91203	☒	☐	1	Composite	8270C-SIM	4.0	ND			
15. Carbon Tetrachloride	56235	☒	☐	1	Composite	624	1.0	ND			
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	1	Composite	624	5.0	ND			
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	1	Composite	624	5.0	ND			
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	1	Composite	624	5.0	ND			
18a. Total dichlorobenzene		☒	☐	1	Composite	624	5.0	ND			
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	1	Composite	624	1.5	ND			
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	1	Composite	624	1.5	ND			
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	1	Composite	624	1.0	ND			
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	1	Composite	624	1.0	ND			
23. Methylene Chloride	75092	☒	☐	1	Composite	624	5.0	ND			
24. Tetrachloroethene (PCE)	127184	☒	☐	1	Composite	624	1.5	ND			
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	1	Composite	624	2.0	ND			
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	1	Composite	624	1.5	ND			
27. Trichloroethene (TCE)	79016	☒	☐	1	Composite	624	1.0	ND			

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
28. Vinyl Chloride (Chloroethene)	75014	☒	☐	1	Composite	624	2.0	ND			
29. Acetone	67641	☒	☐	1	Composite	624	10	ND			
30. 1,4 Dioxane	123911	☒	☐	1	Composite	624	2,000	ND			
31. Total Phenols	108952	☒	☐	1	Composite	420.1	150	ND			
32. Pentachlorophenol (PCP)	87865	☒	☐	1	Composite	8270C-SIM	16	ND			
33. Total Phthalates (Phthalate esters) [4]		☒	☐	1	Composite	8270C	15	ND			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	1	Composite	8270C	15	ND			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	1	Composite	8270C-SIM	4.0	ND			
a. Benzo(a) Anthracene	56553	☒	☐	1	Composite	8270C-SIM	4.0	ND			
b. Benzo(a) Pyrene	50328	☒	☐	1	Composite	8270C-SIM	4.0	ND			
c. Benzo(b)Fluoranthene	205992	☒	☐	1	Composite	8270C-SIM	4.0	ND			
d. Benzo(k)Fluoranthene	207089	☒	☐	1	Composite	8270C-SIM	4.0	ND			
e. Chrysene	21801	☒	☐	1	Composite	8270C-SIM	4.0	ND			
f. Dibenzo(a,h)anthracene	53703	☒	☐	1	Composite	8270C-SIM	4.0	ND			
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	1	Composite	8270C-SIM	4.0	ND			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	1	Composite	8270C-SIM	4.0	ND			

[4] The sum of individual phthalate compounds.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
h. Acenaphthene	83329	☒	☐	1	Composite	8270C-SIM	4.0	ND			
i. Acenaphthylene	208968	☒	☐	1	Composite	8270C-SIM	4.0	ND			
j. Anthracene	120127	☒	☐	1	Composite	8270C-SIM	4.0	ND			
k. Benzo(ghi) Perylene	191242	☒	☐	1	Composite	8270C-SIM	4.0	ND			
l. Fluoranthene	206440	☒	☐	1	Composite	8270C-SIM	4.0	ND			
m. Fluorene	86737	☒	☐	1	Composite	8270C-SIM	4.0	ND			
n. Naphthalene	91203	☒	☐	1	Composite	8270C-SIM	4.0	ND			
o. Phenanthrene	85018	☒	☐	1	Composite	8270C-SIM	4.0	ND			
p. Pyrene	129000	☒	☐	1	Composite	8270C-SIM	4.0	ND			
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	1	Composite	608	0.250	ND			
38. Chloride	16887006	☐	☒	1	Composite	300.0	12,000	520,000			
39. Antimony	7440360	☒	☐	1	Composite	6020A	1.0	ND			
40. Arsenic	7440382	☐	☒	1	Composite	6020A	0.5	8.8			
41. Cadmium	7440439	☐	☒	1	Composite	6020A	0.2	0.3			
42. Chromium III (trivalent)	16065831	☐	☒	1	Composite	6020A	0.5	9.0			
43. Chromium VI (hexavalent)	18540299	☒	☐	1	Composite	7196A	10	ND			
44. Copper	7440508	☐	☒	1	Composite	6020A	0.5	45.4			
45. Lead	7439921	☐	☒	1	Composite	6020A	0.5	20.6			
46. Mercury	7439976	☒	☐	1	Composite	6020A	0.2	ND			
47. Nickel	7440020	☐	☒	1	Composite	6020A	0.5	6.0			
48. Selenium	7782492	☐	☒	1	Composite	6020A	1	1			
49. Silver	7440224	☐	☒	1	Composite	6020A	0.4	0.4			
50. Zinc	7440666	☐	☒	1	Composite	6020A	0.5	100.4			
51. Iron	7439896	☐	☒	1	Composite	6020A	50	19,000			
Other (describe):		☐	☐								

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
		☐	☐								
		☐	☐								

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

Step 1: Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y ⊙ N ○	If yes, which metals? Cadmium, copper, lead, zinc, iron
Step 2: For any metals which exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metal: cadmium DF: 1.45 Metal: copper DF: 1.45 Metal: lead DF: 1.45 Metal: zinc DF: 1.45 Etc. iron 1.45	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ⊙ N ○ If Y, list which metals: Cadmium, 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:

Groundwater encountered during construction activities will be pumped to a treatment system prior to discharge into a storm drain. The first element of the treatment system will be a fractionalization tank where solids will settle out. The effluent will then be passed through the following as necessary: an oil/water separator, a bag filter, a granular activated carbon filter, and a precipitation system/metals treatment. The effluent will then be discharged to the existing storm drain 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 ☐	De-chlorination ☐	Other (please describe):	Precipitation system/metals treatment (as needed)		

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 50 gpm Maximum flow rate of treatment system 100 gpm
Design flow rate of treatment system 100 gpm

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

None

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

a) Identify the discharge pathway:	Direct to receiving water ☐	Within facility (sewer) ☐	Storm drain ☒	Wetlands ☐	Other (describe):

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:
Dewatering effluent will enter existing storm drains on-site. Storm drains lead to Saw Mill Brook in Brookline, MA, via an existing drainline and drainage swale.

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 B

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 0.1 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Y ⊙ N ○ If yes, for which pollutant(s)?
Chloride, Escherichia coli, Oxygen (dissolved), Organic Enrichment (Sewage) Biological Indicators, Phosphorus (Total)
Is there a final TMDL? Y ⊙ N ○ If yes, for which pollutant(s)? Escherichia coli

6. ESA and NHPA Eligibility.

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

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

A ⊙ B ○ C ○ D ○ E ○ F ○

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

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

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

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

1 ⊙ 2 ○ 3 ○

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

7. Supplemental information.

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

Appendix B includes the analytical data collected by Sanborn, Head & Associates, Inc. on June 24, 2011.
Appendix C includes calculations for the 7Q10 flows and the dilution factor for metals.
Appendix D includes correspondence from the National Oceanic and Atmospheric Administration and the US Fish and Wildlife Service.
Appendix E includes a list of Historic Places in Newton, Massachusetts.
Appendix F includes the Best Management Practices Plan.

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:	Chestnut Hill Square
Operator signature:	
Printed Name &Title:	Joe Cruz, Site Superintendent
Date:	

APPENDIX B

ANALYTICAL DATA

DRAFT

Table 1
Summary of Groundwater Analytical Data
Chestnut Hill Square
Newton, MA

SAMPLE ID SAMPLING DATE	NPDES RGP Effluent Limits	Units	NPDES COMPOSITE 1 6/24/2011
Anions			
Chloride	Monitor Only	mg/l	520
General Chemistry			
Solids, Total Suspended	30	mg/l	190
Cyanide, Total	5.2	ug/l	<5
Chlorine, Total Residual[1]	11	ug/l	<20
TPH	5	mg/l	13.2
Phenolics, Total	300	ug/l	<150
Metals			
Antimony, Total	8.1	ug/l	<1
Arsenic, Total	15	ug/l	8.8
Cadmium, Total	0.3	ug/l	0.30
Chromium, Total[2]	71	ug/l	9.0
Chromium, Hexavalent	17	ug/l	<10
Copper, Total	7.5	ug/l	45.4
Iron, Total	1,450	ug/l	19,000
Lead, Total	1.9	ug/l	20.6
Mercury, Total	1.3	ug/l	<0.2
Nickel, Total	42	ug/l	6.0
Selenium, Total	7.3	ug/l	1.0
Silver, Total	1.7	ug/l	0.40
Zinc, Total	97	ug/l	100.4
Pesticides			
1,2-Dibromoethane	0.05	ug/l	<0.01
Volatile Organics			
1,1,1-Trichloroethane	200	ug/l	<2
1,1,2-Trichloroethane	5.0	ug/l	<1.5
1,1-Dichloroethane	70	ug/l	<1.5
1,1-Dichloroethene	3.2	ug/l	<1
1,2-Dichlorobenzene	600	ug/l	<5
1,2-Dichloroethane	5.0	ug/l	<1.5
1,3-Dichlorobenzene	320	ug/l	<5
1,4-Dichlorobenzene	5.0	ug/l	<5
1,4-Dioxane[3]	Monitor Only	ug/l	<2,000
Acetone	Monitor Only	ug/l	<10
Benzene	see Total BTEX	ug/l	<1
Carbon tetrachloride	4.4	ug/l	<1
cis-1,2-Dichloroethene	70	ug/l	<1
Ethylbenzene	see Total BTEX	ug/l	<1
Methyl tert butyl ether	70.0	ug/l	<20
Methylene chloride	4.6	ug/l	<5
o-xylene	see Total BTEX	ug/l	<1
p/m-Xylene	see Total BTEX	ug/l	<2
Tert-Butyl Alcohol	Monitor Only	ug/l	<100
Tertiary-Amyl Methyl Ether	Monitor Only	ug/l	<20
Tetrachloroethene	5.0	ug/l	<1.5
Toluene	see Total BTEX	ug/l	<1
Trichloroethene	5.0	ug/l	<1
Vinyl chloride	2.0	ug/l	<2
Xylene (Total)	see Total BTEX	ug/l	<2
Total BTEX[4]	100	ug/l	<6

Table 1
Summary of Groundwater Analytical Data
Chestnut Hill Square
Newton, MA

SAMPLE ID SAMPLING DATE	NPDES RGP Effluent Limits	Units	NPDES COMPOSITE 1 6/24/2011
Semivolatile Organics			
Bis(2-Ethylhexyl)phthalate	6.0	ug/l	<15
Pentachlorophenol	1.0	ug/l	<16
Butyl benzyl phthalate [5]	See Total Phthalates	ug/l	<25
Diethyl phthalate [5]	See Total Phthalates	ug/l	<25
Dimethyl phthalate [5]	See Total Phthalates	ug/l	<25
Di-n-butylphthalate [5]	See Total Phthalates	ug/l	<25
Di-n-octylphthalate [5]	See Total Phthalates	ug/l	<25
Total Phthalates (Phthalate esters) [6]	3.0	ug/l	<25
Benzo(a)anthracene[7]	0.2	ug/l	<4
Benzo(a)pyrene[7]	0.2	ug/l	<4
Benzo(b)fluoranthene[7]	0.2	ug/l	<4
Benzo(k)fluoranthene[7]	0.2	ug/l	<4
Chrysene[7]	0.2	ug/l	<4
Dibenzo(a,h)anthracene[7]	0.2	ug/l	<4
Indeno(1,2,3-cd)Pyrene[7]	0.2	ug/l	<4
Total Group I PAHs [8]	10	ug/l	<4
Acenaphthene[9]	see Total Group II PAHs	ug/l	<4
Acenaphthylene[9]	see Total Group II PAHs	ug/l	<4
Anthracene[9]	see Total Group II PAHs	ug/l	<4
Benzo(ghi)perylene[9]	see Total Group II PAHs	ug/l	<4
Fluoranthene[9]	see Total Group II PAHs	ug/l	<4
Fluorene[9]	see Total Group II PAHs	ug/l	<4
Naphthalene[9]	see Total Group II PAHs	ug/l	<4
Phenanthrene[9]	see Total Group II PAHs	ug/l	<4
Pyrene[9]	see Total Group II PAHs	ug/l	<4
Total Group II PAHs [10]	100	ug/l	<4
Polychlorinated Biphenyls			
Aroclor 1016 [11]	0.5	ug/l	<0.25
Aroclor 1221 [11]	0.5	ug/l	<0.25
Aroclor 1232 [11]	0.5	ug/l	<0.25
Aroclor 1242 [11]	0.5	ug/l	<0.25
Aroclor 1248 [11]	0.5	ug/l	<0.25
Aroclor 1254 [11]	0.5	ug/l	<0.25
Aroclor 1260 [11]	0.5	ug/l	<0.25
Total PCBs [12]	0.5	ug/l	<0.25

Table 1
Summary of Groundwater Analytical Data
Chestnut Hill Square
Newton, MA

Notes:
1. The Laboratory Reporting Limit (RL) meets the requirements of Appendix VI of the National Pollutant Discharge Elimination System (NPDES) even though the RL exceeds RGP Effluent Limit.
2. Hexavalent chromium was not detected above RLs, so total chromium concentration was assumed to be trivalent chromium and compared to the trivalent chromium effluent limit.
3. RL achieved by laboratory was above the RL required in Appendix VI of the RGP and above the Effluent Limit. Please see attached correspondence between EPA and laboratory regarding analytical requirements.
4. Total BTEX = Sum of benzene, toluene, ethylbenzene, and total xylenes.
5. Individual phthalate compound
6. "Total phthalates" is the sum of individual phthalate compounds; According to RGP Q&A #37, the RL for total phthalates is the highest reported phthalate RL; RL is less than the requirements in Appendix VI of RGP, even though RL exceeds RGP Effluent Limit.
7. Group I PAHs; Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level of the test method used as listed in Appendix VI (i.e. 0.20 ug/l for Method 8270 SIM).
8. Sum of Group I PAHs.
9. Group II PAHs
10. Sum of Group II PAHs.
11. Individual PCB congener
12. Total of PCB congeners; Although the maximum value for total PCB's is 0.000064 ug/l, the compliance limit is equal to the minimum level of the test method used as listed in Appendix VI (i.e. 0.5 ug/l for Method 608).
13. Shaded values indicate exceedences of the NPDES RGP Effluent Limits, which were taken from Appendix III for Category III Contaminated Construction Dewatering of the RGP. NPDES RGP Effluent Limits for metals have been adjusted using the dilution factor calculated for the discharge water body.
'<' = analyte not detected above laboratory reporting limits
'NS' = Not Specified
14. Sample was collected by Sanborn, Head & Associates, Inc. on the date shown and submitted to Alpha Analytical Laboratories, Inc. of Westborough, Massachusetts for analysis. The sample is a composite from wells MW-1, SH-301, and SH-302.
15. Monitor Only means that the subject compound is not subject to a (criteria) limit, however, the permitee may be required to monitor and report the effluent concentration.

APPENDIX C

SAW MILL BROOK DILUTION CALCULATION

PURPOSE:

To calculate the dilution factor (DF) for metal concentrations in a potential discharge from on-site construction dewatering activities.

METHOD:

$$DF = (Qd + Qs)/Qd$$

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

GIVEN:

1.0 gpm = 0.00223 cfs
Qd = 100 gpm from the system = 0.223 cfs
Qs = 0.1 cfs of flow in the Sawmill Brook [Reference 1]

CALCULATION:

$$DF = (0.223cfs + 0.1cfs) / 0.223cfs$$
$$\mathbf{DF = 1.45}$$

RESULTS:

The resulting dilution factor to be used when discharging to the Sawmill Brook is equal to 1.45.

REFERENCES:

[1] Wandle, S.W., Jr., 1984, Gazetteer of Hydrologic Characteristics of Streams in Massachusetts – Coastal River Basins of the North Shore and Massachusetts Bay: U.S. Geological Survey Water-Resources Investigations Report 84-4281, p. 52. (Refer to Attachment A)

Table 5.—Summary of 7-day low-flow characteristics, drainage area, and period of record for low-flow partial-record stations and miscellaneous sites (Continued)

Number in figures 2-8	Station number	Station name	Location	Period of record	Drainage area, in square miles	Estimated annual minimum 7-day mean low flow, in cubic feet per second, at indicated recurrence interval	
						2-year	10-year
		CHARLES RIVER BASIN (Continued)					
133	01103980	Charles River at Dedham, Mass.	Ames Street	1944-45	—	—	--
134	01103990	Lowder Brook at Dedham, Mass.	U.S. Route 1	1971	4.04	—	—
136	01104050	Sawmill Brook near West Roxbury, Mass.	Baker Street	1968-71	1.97	0.5	0.1
137	01104055	[1]Sawmill Brook at mouth, near West Roxbury, Mass.	Mouth	1970	—	—	—
138	01104100	South Meadow Brook at Newton, Mass.	Parker Street	1970	—	—	—
140	01104250	Rosemary Brook at Wellesley, Mass.	Wellesley Avenue	1970	—	—	—
141	01104255	Rosemary Brook near Wellesley, Mass.	Oakland Street	1967	—	—	—
142	01104300	[2]Stony Brook near Weston, Mass.	Merriam Street	1968-71	5.64	.2	<.1
143	01104350	Cherry Brook near Weston, Mass.	Conant Road	1968-71	2.13	.4	.2
144	01104395	Hobbs Brook tributary near Lincoln, Mass.	Concord Turnpike	1970	—	—	—
145	01104400	Hobbs Brook near Lincoln, Mass.	Abandoned road 750 feet north of Concord Turnpike	1969-71	1.31	.0	.0
146	01104450	[1]Stony Brook at Waltham, Mass.	Railroad at Waltham city boundary	1970	—	—	—
		NEPONSET RIVER BASIN					
149	01104800	Neponset River near Foxborough, Mass.	North Street	1967	1.92	—	—
150	01104820	Neponset River near South Walpole, Mass.	South Street	1967	7.62	—	—
151	01104830	[3]School Meadow Brook near Walpole, Mass.	Washington Street	1966-67	2.80	—	—

APPENDIX D

FEDERAL CORRESPONDENCE

United States Department of the Interior

FISH AND WILDLIFE SERVICE

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

January 3, 2011

To Whom It May Concern:

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

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

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

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

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

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
NORTHEAST REGION
55 Great Republic Drive
Gloucester, MA 01930-2276

Patricia M. Pinto
Sanborn, Head & Associates, Inc.
1 Technology Park Drive
Westford, Massachusetts 01886

Re: NPDES RGP, Saw Mill Brook, Brookline, MA

Dear Ms. Pinto,

This is in response to your letter dated July 1, 2011, requesting information on the presence of species listed by NOAA's National Marine Fisheries Service (NMFS) in the vicinity of Saw Mill Brook, Brookline, Massachusetts.

No species listed under the jurisdiction of NOAA's National Marine Fisheries Service (NMFS) are known to occur in the vicinity of your proposed project. As such, NMFS Protected Resources Division does not intend to offer additional comments on this proposal. Should project plans change or new information become available that changes the basis for this determination, further coordination should be pursued. If you have any questions regarding these comments, please contact Danielle Palmer at (978) 282-8468.

Sincerely,

Mary A. Colligan
Assistant Regional Administrator
for Protected Resources

File Code: Sec 7 – No Species Present 2011

APPENDIX E

NATIONAL REGISTER OF HISTORICAL PLACES, NEWTON, MASSACHUSETTS

Appendix E
National Register of Historic Places
Research Documentation
Chestnut Hill Square, Newton, Massachusetts

Site Name	Address	Date Listed
Adams, Amos, House	37 Park Ave.	9/4/1986
Adams, Seth, House	72 Jewett St.	9/4/1986
Agudas Achim Anshei Sfard Synagogus	168 Adams St.	2/16/1990
Allen, Nathaniel Topliff, Homestead	25 Webster St.	1/9/1978
Auburndale Congregational Church	64 Hancock St.	9/4/1986
Bartlett--Hawkes Farm	15 Winnetaska Rd.	9/4/1986
Bayley House	16 Fairmont Ave.	9/4/1986
Bemis Mill	1--3 Bridge St.	9/4/1986
Bigelow, Dr. Henry Jacob, House	742 Dedham St.	1/1/1976
Bigelow, Henry, House	15 Bigelow Terr.	9/4/1986
Blodgett, William, House	645 Centre St.	9/4/1986
Boston Edison Power Station	374 Homer St.	2/16/1990
Brackett House	621 Centre St.	9/4/1986
Brae-Burn Historic District	Brae Burn and Windmere Rds.	2/16/1990
Brandeis University President's House	66 Beaumont Ave.	8/19/1998
Bruner, Mayall, House	36 Magnolia Ave.	2/16/1990
Buckingham, John, House	33--35 Waban St.	9/4/1986
Building at 1--6 Walnut Terrace	1--6 Walnut Terr.	9/4/1986
Central Congregational Church	218 Walnut St.	9/4/1986
Chestnut Hill, The	219 Commonwealth Ave.	9/4/1986
Childs, Mayor Edwin O., House	340 California St.	2/16/1990
Church, William L., House	145 Warren St.	2/21/1990
City Stable and Garage	74 Elliot St.	2/16/1990
Claflin School	110-112 Washington Park	8/16/1984
Claflin, Adams, House	156 Grant Ave.	9/4/1986
Clark House	379 Central St.	9/4/1986
Colby Hall	141 Herrick Rd.	1/30/1978
Collins, Frederick, House	1734 Beacon St.	9/4/1986
Commonwealth Avenue Historic District	Roughly Commonwealth Ave. from Walnut St. to Waban Hill Rd.	2/16/1990
Crafts Street City Stable	90 Crafts St.	12/18/2009
Crimmins, Thomas A., House	19 Dartmouth St.	2/16/1990
Crystal Lake and Pleasant Street Historic District	Roughly bounded by Sudbury Aqueduct, Pleasant Ave., Lake Ave., and Crystal St. and Webster Ct.	9/4/1986
Curtis, Allen Crocker, House--Pillar House	26 Quinobequin Rd.	9/4/1986
Curtis, William, House	2330 Washington St.	9/4/1986
Davis, Seth, House	32 Eden Ave.	9/4/1986
Day Estate Historic District	Commonwealth Ave. and Dartmouth St.	2/16/1990
Dupee Estate	400 Beacon St.	9/4/1986
Durant, Capt. Edward, House	286 Waverly Ave.	5/13/1976
East Parish Burying Ground	Centre and Cotton Sts.	11/23/1983
Echo Bridge	Spans Charles River	4/9/1980
Eddy, George W., House	85 Bigelow Rd.	2/16/1990

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Chestnut Hill Square, Newton, Massachusetts

Site Name	Address	Date Listed
Elliott, Charles D., House	7 Colman St.	9/4/1986
Eminence, The	122 Islington Rd.	9/4/1986
Estabrook, Rufus, House	33 Woodland Rd.	9/4/1986
Evangelical Baptist Church	23 Chapel St.	9/4/1986
Farlow and Kendrick Parks Historic District	Roughly bounded by Franklin, Park, Church, Center and Wesley Sts. and Maple Ave.	7/8/1982
Farlow and Kendrick Parks Historic District (Boundary Increase)	223, 226, 234, 237, 242, 243, 248, and 256 Park St.	9/4/1986
Farlow Hill Historic District	Roughly bounded by Shornecliffe Rd., Franklin St., Chamberlain Rd., Huntington Rd., and Farlow Rd.	2/21/1990
Farquhar, Samuel, House	7 Channing St.	9/4/1986
Fenno, John A., House	171 Lowell Ave.	9/4/1986
Fessenden, Reginald A., House	45 Waban Hill Rd.	1/7/1976
First Baptist Church in Newton	848 Beacon St.	4/15/1982
First Unitarian Church	1326 Washington St.	9/4/1986
Fuller, Capt. Edward, Farm	59--71 North St.	9/4/1986
Gane, Henry, House	121 Adena Rd.	9/4/1986
Goodbar, Lafayette, House	614 Walnut St.	2/16/1990
Gray Cliff Historic District	35, 39, 43, 53, 54, 64, 65, and 70 Gray Cliff Rd	9/4/1986
Gray Cliff Historic District (Boundary Increase)	The Ledges and Bishopsgate Rds.	2/16/1990
Gunderson, Jos., House	983 Centre St.	9/4/1986
Hammond House	9 Old Orchard Rd.	3/9/1990
Hammond, E. C., House	35 Groveland St.	2/16/1990
Harbach, John, House	303 Ward St.	9/4/1986
Harding House--Walker Missionary Home	161--163 Grove St.	9/4/1986
Harriman, Henry I., House	825 Centre St.	2/16/1990
Harrison, C. Lewis, House	14 Eliot Memorial Rd.	2/16/1990
Haskell, Charles, House	27 Sargent St.	9/4/1986
Hayward, Fred R., House	1547 Centre St.	2/16/1990
Hopewell, Frank B., House	301 Waverley Ave.	2/16/1990
House at 1008 Beacon Street	1008 Beacon St.	9/4/1986
House at 102 Staniford Street	102 Staniford St.	9/4/1986
House at 107 Waban Hill Road	107 Waban Hill Rd.	9/4/1986
House at 115--117 Jewett Street	115--117 Jewett St.	9/4/1986
House at 15 Davis Avenue	15 Davis Ave.	9/4/1986
House at 152 Suffolk Road	152 Suffolk Rd.	9/4/1986
House at 170 Otis Street	170 Otis St.	9/4/1986
House at 173--175 Ward Street	173--175 Ward St.	9/4/1986
House at 203 Islington Road	203 Islington Rd.	9/4/1986
House at 215 Brookline Street	215 Brookline St.	9/4/1986

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Chestnut Hill Square, Newton, Massachusetts

Site Name	Address	Date Listed
House at 2212 Commonwealth Avenue	2212 Commonwealth Ave.	9/4/1986
House at 230 Melrose Street	230 Melrose St.	9/4/1986
House at 230 Winchester Street	230 Winchester St.	9/4/1986
House at 3 Davis Avenue	3 Davis Ave.	9/4/1986
House at 307 Lexington Street	307 Lexington St.	9/4/1986
House at 309 Waltham Street	309 Waltham St.	9/4/1986
House at 31 Woodbine Street	31 Woodbine St.	9/4/1986
House at 41 Middlesex Road	41 Middlesex Rd.	9/4/1986
House at 47 Sargent Street	47 Sargent St.	9/4/1986
House at 511 Watertown Street	511 Watertown St.	9/4/1986
House at 60 William Street	60 William St.	9/4/1986
House at 68 Maple Street	68 Maple St.	9/4/1986
House at 729 Dedham Street	729 Dedham St.	9/4/1986
House at 81--83 Gardner Street	81--83 Gardner St.	9/4/1986
Howes, C. G., Dry Cleaning--Carley Real Estate	1173 Washington St.	2/16/1990
Hyde Avenue Historic District	36, 42, 52, 59, and 62 Hyde Ave.	12/23/1986
Hyde House	27 George St.	9/4/1986
Hyde, Eleazer, House	401 Woodward St.	9/4/1986
Hyde, Gershom, House	29 Greenwood St.	9/4/1986
Jackson Homestead	527 Washington St.	6/4/1973
Jackson House	125 Jackson St.	9/4/1986
Jackson, Samuel, Jr., House	137 Washington St	9/4/1986
Jennison, Joshua, House	11 Thornton St.	9/4/1986
Judkins, Amos, House	8 Central Ave.	9/4/1986
Kessler, William F., House	211 Highland St.	2/16/1990
King House	328 Brookline St.	9/4/1986
Kingsbury House	137 Suffolk St.	9/4/1986
Kistler House	945 Beacon St.	9/4/1986
Lasell Neighborhood Historic District	Roughly bounded by Woodland and Studio Rds., Aspen and Seminary Aves., and Grove St.	9/4/1986
Luke, Arthur F., House	221 Prince St.	2/16/1990
Maynard, Charles, House	459 Crafts St.	4/4/1996
Merriam, Galen, House	102 Highland St.	9/4/1986
Monadnock Road Historic District	Roughly Monadnock Rd., Wachusett Rd., Hudson St., Tudor Rd., Beacon St., and Hobart Rd	2/16/1990
Morton Road Historic District	Morton Rd. at Morton St.	2/16/1990
Mount Pleasant	15 Bracebridge Rd.	9/4/1986
Myrtle Baptist Church Neighborhood Historic District	Roughly Curve St. and Prospect St.	12/11/2008
Needham Street Bridge	Needham St. at Charles River	9/4/1986
Newton Centre Branch Library	1294 Centre St.	2/16/1990

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Chestnut Hill Square, Newton, Massachusetts

Site Name	Address	Date Listed
Newton City Hall and War Memorial	1000 Commonwealth Ave.	2/16/1990
Newton Cottage Hospital Historic	2014 Washington St.	2/21/1990
Newton Highlands Historic District	Roughly bounded by Lincoln and Hartford Sts., Erie Ave., and Woodward St.	9/4/1986
Newton Highlands Historic District (Boundary Increase)	Roughly Lincoln St., Hartford St., Erie Ave., and Woodward St.	2/16/1990
Newton Lower Falls Historic District	Roughly bounded by Hagar, Grove, Washington, and Concord Sts.	9/4/1986
Newton Street Railway Carbarn	1121 Washington St.	9/4/1986
Newton Theological Institution Historic District	Roughly bounded by Braeland Ave., Ripley St. and Langley Rd., Bowdoin School Access Rd., and Cypress St.	9/4/1986
Newton Upper Falls Historic District	Roughly bounded by Boylston, Elliot, and Oak Sts., and the Charles River	9/4/1986
Newtonville Historic District	Roughly bounded by Highland Ave., Walnut Mill St., Otis St., and Lowell Ave.	9/4/1986
Newtonville Historic District (Boundary Increase)	Roughly Highland and Lowell Aves., Otis St., and Birch Hill Rd., and Walnut St. from Newtonville to Washington	2/16/1990
Nichols House	140 Sargent St.	9/4/1986
Noves, Charles W., House	271 Chestnut St.	2/16/1990
Old Chestnut Hill Historic District	Along Hammond St. and Chestnut Hill Rd. roughly bounded by Beacon St. and Essex Rd., and Suffolk Rd.	9/4/1986
Old Chestnut Hill Historic District (Boundary Increase)	Roughly Chestnut Hill, Essex, and Gate House;Middlesex, Hammond, and Longwood;and Suffolk and Old Orchard	2/16/1990
Old Chestnut Hill Historic District (Boundary Increase)	Suffolk Rd.	7/8/1999
Old Shephard Farm	1832 Washington St.	9/4/1986
Our Lady Help of Christians Historic District	Adams and Washington Sts.	9/4/1986
Page, H. P., House	110 Jewett St.	9/4/1986
Parsons, Edward, House	56 Cedar St.	9/4/1986
Peabody--Williams House	7 Norman Rd.	9/4/1986
Peirce School	87 Chestnut St.	12/6/1978
Pierce, F. Lincoln, Houses	231--237 Mill St.	2/16/1990
Pine Ridge Road--Plainfield Street Historic District	Roughly Pine Ridge Rd., Upland Rd., Plainfield St., and Chestnut St.	2/16/1990
Plummer Memorial Library	375 Auburn St.	2/16/1990
Potter Estate	65--71 Walnut Pk.	12/23/1986
Prescott Estate	770 Centre St.	9/4/1986
Putnam Street Historic District	Roughly bounded by Winthrop, Putnam, Temple, and Shaw Sts.	9/4/1986

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Chestnut Hill Square, Newton, Massachusetts

Site Name	Address	Date Listed
Railroad Hotel	1273--1279 Washington St.	9/4/1986
Rawson Estate	41 Vernon St.	9/4/1986
Richards, James Lorin, House	47 Kirkstall and 22 Oakwood Rds.	9/4/1986
Riley, Charles, House	93 Bellevue St.	9/4/1986
Riverside Concrete Company--Lamont's Market	2 Charles St.	2/16/1990
Sacco--Pettee Machine Shops	156 Oak St.	12/23/1986
Saco-Lowell Shops Housing Historic District	Oak, William, Butts, and Saco Sts.	2/16/1990
Salisbury, Jonas, House	85 Langley Rd.	9/4/1986
Salisbury, Jonas, House	62 Walnut Pk.	9/4/1986
Sawyer, C. A., House (Second)	221 Prince St.	2/16/1990
Second Church of Newton	60 Highland St.	2/16/1990
Simpson House	57 Hunnewell Ave.	9/4/1986
Smith, Curtis S., House	56 Fairmont Ave.	9/4/1986
Smith--Peterson House	32 Farlow Rd.	9/4/1986
South Burying Ground	Winchester St.	11/27/2004
Souther, John, House	43 Fairmont St.	9/4/1986
St. Mary's Church and Cemetery	258 Concord St.	4/16/1980
Staples--Crafts--Wiswall Farm	1615 Beacon St.	9/4/1986
Stewart, Frank H., House	41 Montvale Rd.	2/21/1990
Stone, Joseph L., House	77--85 Temple St.	9/4/1986
Stratton, Edward B., House	25 Kenmore St.	2/16/1990
Strong's Block	1637--1651 Beacon St	9/4/1986
Sumner and Gibbs Streets Historic District	Roughly Sumner St. between Willow St. and Cotswold Terr. and 184 Gibbs St.	9/4/1986
Thaxter, Celia, House	524 California St.	9/4/1986
Thayer House	17 Channing St.	9/4/1986
Towle, Loren, Estate	785 Centre St.	2/16/1990
Union Street Historic District	Roughly Union St. between Langley Rd. and Herrick St., and 17--31 Herrick St.	9/4/1986
Waban Branch Library	1608 Beacon St.	2/16/1990
Walker Home for Missionary Children	161--63, 165, 167 Grove St., 136, 138, 144 Hancock St.	6/4/1992
Ward, Ephraim, House	121 Ward St.	9/4/1986
Ware Paper Mill	2276 Washington St.	5/22/1978
Warren, Dr. Samuel, House	432 Cherry St.	1/3/1985
Warren, Levi, Jr., High School	1600 Washington St.	2/16/1990
Washington Park Historic District	4-97 Washington Park & 5,15 Park Place	3/12/2008
Webster Park Historic District	Along Webster Pk. and Webster St. between Westwood St. and Oak Ave.	9/4/1986
Weeks Junior High School	7 Hereward Rd.	10/23/1984
West Newton Hill Historic District	Roughly bounded by Highland Ave., Lenox, Hampshire, and Chestnut Sts.	9/4/1986

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Chestnut Hill Square, Newton, Massachusetts

Site Name	Address	Date Listed
West Newton Village Center Historic District	Roughly Washington St. from Putnam to Davis Ct.	2/16/1990
West Parish Burying Ground	River and Cherry Sts.	11/13/2004
Wheat, Samuel, House	399 Waltham St.	9/4/1986
Whittemore's Tavern	473 Auburn St.	9/4/1986
Windsor Road Historic District	Windsor and Kent Rds.	2/16/1990
Winslow-Haskell Mansion	53 Vista Ave.	10/25/1979
Woodland, Newton Highlands, and Newton Centre Railroad Stations, and Baggage and Express Building	1897 Washington St., 18 Station Ave., 80 and 50 Union St.	6/3/1976
Woodward, John, House	50 Fairlee Rd.	9/4/1986
Working Boys Home	333 Nahanton St.	9/4/1986

Notes:
Sanborn, Head & Associates, Inc. (Sanborn Head) conducted a review of the National Register of Historic Places within Newton, Massachusetts. The search returned 189 resutls, none of which are located at or abutting the site.

APPENDIX F

BEST MANAGEMENT PRACTICES PLAN

APPENDIX F: BEST MANAGEMENT PRACTICES PLAN

Notice of Intent for the Remediation General Permit
Temporary Construction Dewatering at Chestnut Hill Square for
Site Redevelopment and Remediation
Newton, Massachusetts

This Best Management Practices Plan (BMPP) has been prepared in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) for Massachusetts (MAG910000). This BMPP is in support of an RGP application for dewatering during redevelopment construction and remedial activities in the Chestnut Hill Square area of Newton, Massachusetts. The dewatering discharge will be conveyed through the existing storm drains and discharged to the Saw Mill Brook in Brookline, MA.

The following practices will be adhered to during the construction dewatering at the site.

Site Security

During construction activities, the dewatering system will be secured using standard construction practices. The fractionalization tank will be located in a fenced area to limit access. All associated piping will be secured and checked regularly. Any system failure, vandalism, or other incidents will be addressed in a timely manner to prevent the discharge of oil or hazardous materials from exceeding the limits of the RGP.

Minimizing Sediment in Influent

Crushed stone sumps constructed as far as possible from the active excavation area will be used as the suction points for the dewatering system intakes. Efforts will be made to manage the pumping such that the amount of sediment in the influent to the treatment system is minimized.

Management of Generated Wastes

Portions of the construction excavations and the remediation excavations will be conducted within the limits of a Massachusetts Contingency Plan (MCP) release site. As such the wastes that are generated during the operation of the dewatering treatment system will be managed as MCP wastes. The anticipated wastes are sediment sludge that accumulates in the fractionalization tank, used bag filters, spent activated carbon, (possibly) free phase petroleum that is separated in the oil water separator, and miscellaneous wastes associated with water quality sampling activities. The sediment sludge will be tested and disposed of at a licensed facility that is permitted to accept material with the documented physical and chemical characteristics of the sludge. The used bag filters and the miscellaneous sampling wastes will be appropriately disposed of as solid or contaminated wastes, based on their characteristics. The spent activated carbon will be processed and recycled by the company providing the fresh carbon. Free phase product, if any, that is collected as a liquid will be transported to a licensed waste oil processing facility for characterization and disposal.

Prohibition of Discharge Exceeding Design Flow

The subcontractor providing the treatment system will provide the Operator with information on the design capacity of the treatment system and the features included in the design to monitor the flow rate to ensure that the capacity is not exceeded. The system will be monitored with a continuous flow meter such that the overall system flow does not exceed the lowest design capacity of an individual treatment system unit.

Preventative Maintenance Required

The treatment system will likely include two activated carbon units in series with a monitoring point between the tanks. Systematic sampling will take place at the intermediate sampling point. If the data at that point indicates that "breakthrough" has occurred, the downstream carbon tank will be moved to the upstream position and the carbon in the upstream unit will be changed out and then placed in service at the downstream side. The bag filters will be replaced whenever the pressure drop across the filters exceeds the system's design criteria. The subcontractor will be responsible for developing and implementing a preventative maintenance plan and schedule based on the specific design of the treatment system.

Employee Training

The field staff of the Operator and the subcontractor will be instructed regarding the water quality limits contained in the RGP and the critical need to operate the treatment system as designed. The staff will also be provided guidance on how to reduce the sediment content and minimize the volume of free product, if any, that is pumped into the treatment system. Personnel who have responsibilities related to the dewatering efforts will be informed of the contents of the RGP, this BMPP and the NOI.

Management of Run-on and Runoff

The overburden soil and fill material that is located above the contaminated layer will be used to construct a berm around the perimeter of the excavation area to prevent rainfall runoff from migrating into the excavation. The stockpiles of the contaminated soils will be placed on plastic sheets and then covered with sheeting and bermed with hay bales until the off-site transport occurs.

Erosion, Scouring and Sediment Control

Considering the design flow of the system and the planned duration of the discharge relative to the size and flow of the storm drain where it discharges to the Saw Mill Brook, it is not anticipated that the dewatering discharge will cause erosion, stream scouring at the discharge point, or additional sedimentation in the Saw Mill Brook.