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

CERTIFIED MAIL

MAR 16 2011

William C Beyer,
Principal Hydrogeologist
Fay Spofford & Thorndike
5 Burlington Woods Drive
Burlington, MA01803

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Drainage, Water and Sewer Work Improvements 080 CSO Area Reserved Channel site located at West First Street, Boston, MA 02119, Suffolk County; Authorization # MAG910472

Dear Mr. Beyer:

Based on the review of a Notice of Intent (NOI) submitted on behalf of the Boston Water and Sewer Commission (BWSC) by the firm Fay, Spofford & Thorndike, for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The checklist enclosed with this RGP authorization indicates the pollutants for which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the 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 list of pollutants authorized includes pollutants found in excess of the RGP Appendix III limits, and others you have marked "Believed Present" in the NOI application for the BWSC site.

Also, please note that the metals arsenic, lead, iron included on the list are dilution dependent pollutants and subject to limitations based on a dilution factor range (DFR).

With the absence of dilution for discharges to tidal water, 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 36ug/L, lead of 8.5ug/L, and iron of 1,000ug/L, are required to achieve permit compliance at your site.

Finally, please note the list of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. 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 07/31/2013. 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

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Authorization Number:	**MAG910472**
Date Authorization Issued:	March, 2011
Owner's Name & Work Description:	Boston Water & sewer Commission (BWSC). Drainage of Water, and Sewer Work Improvements 080 CSO Area Reserved Channel, South Boston.
Facility/Site Address:	West First Street, Boston, MA 02119, Suffolk County
	Email address of owner: Same as the site; Phone n: Not provided.
Legal Name of Operator:	RJV Construction, Corporation/ Fay Spofford & Thorndike
Operator contact name, title, and Address:	William C. Beyer 3 Burlington Woods, Burlington MA 01803.
	Email :fstinc.com
Estimated Date of Completion:	07/31/2013
Category and Sub-Category:	Category I- Petroleum Related Site Discharges. Sub-category B. Fuel Oils & Other Oils, and Category III. Contaminated Construction Dewatering. Sub-category B Known Contaminated Sites.
Receiving Water:	The Boston Reserved Channel in South Boston, 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/ML 5ug/L
	2. Total Residual Chlorine (TRC) [1]	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
√	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
	4. Cyanide (CN) [2, 3]	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 5ug/L
√	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
√	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
√	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
√	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
√	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) [4]	100 ug/L/ Me#8260C/ ML 2ug/L
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L

	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)
	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/ML5ug/L
	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
√	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML5ug/L,Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) [6]	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/L
√	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
√	a. Benzo(a) Anthracene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
√	b. Benzo(a) Pyrene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L

	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)
√	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]	
		Freshwater	Saltwater
	39. Antimony	5.6/ML 10	
√	40. Arsenic **		36/ML 20
	41. Cadmium **		8.9/ML 10
	42. Chromium III (trivalent) **		100/ML 15

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11]			
		Freshwater	Saltwater		
	43. Chromium VI (hexavalent) **		50.3/ML 10		
	44. Copper **		3.7/ML 15		
√	45. Lead **		8.5/ML 20		
	46. Mercury **		1.1/ML 0.2		
	47. Nickel **		8.2/ML 20		
	48. Selenium **		71/ML 20		
	49. Silver		2.2/ML 10		
	50. Zinc **		85.6/ML 15		
√	51. Iron	1,000/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

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February 11, 2011

Mr. Victor Alvarez
United States Environmental Protection Agency
1 Congress Street
Boston, MA 02114-2-23

Subject: NPDES Remediation General Permit Notice of Intent
Boston Water and Sewer Commission
Drainage, Water and Sewerage Works Improvements
080 CSO Area Reserved Channel, South Boston

Dear Mr. Alvarez:

Fay, Spofford & Thorndike (FST) is pleased to submit this Notice off Intent (NOI) for a Remediation General Permit on behalf of the Boston Water and Sewer Commission (BWSC). BWSC is implementing a program to minimize discharge of sewerage to the harbor through the existing CSOs. This project improves the outfalls for part of South Boston as shown on the attached figure.

The primary contaminants of concern are petroleum constituents. Free product was observed at the intersection of E Street and West First Street. Ryder Transportation Services is located at the intersection of E Street and West First Street. The site has been used commercially since the mid 1800's, and has a history of oil/petroleum contamination in soil and groundwater. Leaking underground storage tanks, above storage tanks, and drums has been associated with the soil and groundwater contamination. The attached plan shows the location of the site and associated free product.

Where construction requires dewatering, the following approach is proposed:

All groundwater will be pumped to an 18,000-gallon frac tank and sampled for petroleum constituents. Subsequent sampling will occur daily for the first three days and weekly thereafter, or if a visual or olfactory indication of contamination is noted. Should sampling detect any contamination, the proposed treatment scheme would consist of:

The 18,000-gallon frac tank to collect any free product,

Pumping from the tank at 50-90 gpm through two granular activated carbon (GAC) filters in series,

Discharge from the GAC to a second frac tank to allow testing prior too final discharge, and

Discharge to either the Reserved Channel or a storm drain leading to it.

The contractor is RJV Construction, Corp. at 21 Lincoln Street, Canton, MA 02021.

Attached is the RGP NOI, a location map, a line drawing of the proposed treatment train, and part of a recent report on the Ryder site indicating the contaminants of concern and their concentrations.

Please contact at 781-221-1276 if you desire additional information.

Very truly yours,
Fay, Spofford & Thorndike, LLC
By

William C. Beyer
Principal Hydrogeologist

JB-233
WCB/wcb
Cc: JMT
S:\JB-233 - Reserved Channel\09-309-009 Cont 3A RJV\Permits\RGP NOI cover letter.doc

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**: Reserved Channel		**Facility/site** mailing address:		
Location of **facility/site**: longitude: -71° 2' 53.8794" latitude: 42° 20' 24.72"	Facility SIC code(s): 1623	Street: West First Street (See Attached Figure)		
b) Name of **facility/site owner:**		Town: South Boston		
Email address of facility/site owner: Boston Water and Sewer Commission		State: MA	Zip:	County: Suffolk
Telephone no. of facility/site **owner**: (617) 989-7000				
Fax no. of facility/site **owner**:		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ⊙ 3. Private ○ 4. Other ○ if so, describe:		
Address of **owner** (if different from site):				
Street: 980 Harrison Street				
Town: Boston	State: MA	Zip: 02119	County: Suffolk	
c) Legal name of **operator**:	**Operator** telephone no: 781-821-1469			
RJV Construction, Corp.	**Operator** fax no.: 781-828-5116	**Operator** email:		
Operator contact name and title: Joseph Pacella, President				
Address of **operator** (if different from owner):	Street: 21 Lincoln Street			
Town: Canton	State: MA	Zip: 02021	County: Suffolk	

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:
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:

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

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

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

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

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

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

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

Dewatering for construction of outfalls and piping for sewer and water.

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 0.2 Is maximum flow a **design value**? Y ○ N ○
Average flow (include units) 0.15 Is average flow a design value or estimate? estimate

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

pt.1: lat	42° 20' 22.2"	long	-71° 2' 29.0394"	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 end 7/31/2013

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.

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	G	SM2540-D	4000	20000	2.4	10000	1.2
2. Total Residual Chlorine (TRC)		☒	☐	1	G	HACH 8167	200	ND			
3. Total Petroleum Hydrocarbons (TPH)		☐	☒	1	G	8100M	750	20000	2.4	6650	0.8
4. Cyanide (CN)	57125	☒	☐	1	G	SM 4500	19.7	ND		ND	
5. Benzene (B)	71432	☐	☒	1	G	EPA 8260	2	10	0.0012	ND	
6. Toluene (T)	108883	☐	☒	1	G	EPA 8260	2	10	0.0012	ND	
7. Ethylbenzene (E)	100414	☐	☒	1	G	EPA 8260	2	10	0.0012	ND	
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☐	☒	1	G	EPA 8260	2	10	0.0012	ND	
9. Total BTEX [2]	n/a	☐	☒	1				20	0.0024	ND	
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	1	G	SIM	0.02	ND			
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	1	G	SW8260	2	ND			
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐								

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

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

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

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
13. tert-Amyl Methyl Ether (TAME)	9940508	☒	☐								
14. Naphthalene	91203	☐	☒	1	G	SW8260	10	1000	1.2	10	0.012
15. Carbon Tetrachloride	56235	☒	☐	1	G	SW8260	2	ND			
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	1	G	SW8270C	1.03	ND			
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	1	G	SW8270C	1.03	ND			
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	1	G	SW8270C	1.03	ND			
18a. Total dichlorobenzene		☒	☐	1	G	SW8270C	1.03	ND			
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	1	G	SW8260	2	ND			
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	1		SW8260	2	ND			
21. 1,1 Dichloroethene (DCE)	75354	☐	☐	1	G	SW8260	2	ND			
22. cis-1,2 Dichloroethene (DCE)	156592	☐	☒	1	G	SW8260	2	10	0.012	2.77	0.003
23. Methylene Chloride	75092	☒	☐	1	G	SW8260	5	ND			
24. Tetrachloroethene (PCE)	127184	☒	☐	1	G	SW8260	2	ND			
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	1	G	SW8260	2	ND			
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	1	G	SW8260	2	ND			
27. Trichloroethene (TCE)	79016	☒	☐	1	G	SW8260	2	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	G	SW8260	2	ND			
29. Acetone	67641	☒	☐	1	G	SW8260	2	ND			
30. 1,4 Dioxane	123911	☒	☐	1	G	SW8260	2	ND			
31. Total Phenols	108952	☒	☐	1	G	SW8270C	1.03	ND			
32. Pentachlorophenol (PCP)	87865	☒	☐	1	G	SW8270C	2.56	ND			
33. Total Phthalates (Phthalate esters) [4]		☒	☐	1	G	SW8270C	1.03	ND			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	1	G	SW8270C	1.03	ND			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☐	☒	1	G	SW8270C	1.03	5000	0.6	10	0.0012
a. Benzo(a) Anthracene	56553	☐	☒	1	G	SW8270C	0.103	1000	0.12	10	0.0012
b. Benzo(a) Pyrene	50328	☐	☒	1	G	SW8270C	0.103	1000	0.12	10	0.0012
c. Benzo(b)Fluoranthene	205992	☐	☒	1	G	SW8270C	0.103	1000	0.12	10	0.0012
d. Benzo(k)Fluoranthene	207089	☐	☒	1	G	SW8270C	0.103	1000	0.12	10	0.0012
e. Chrysene	21801	☐	☒	1	G	SW8270C	0.103	1000	0.12	10	0.0012
f. Dibenzo(a,h)anthracene	53703	☐	☒	1	G	SW8270C	0.103	1000	0.12	10	0.0012
g. Indeno(1,2,3-cd) Pyrene	193395	☐	☒	1	G	SW8270C	0.103	1000	0.12	10	0.0012
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☐	☒	1	G	SW8270C	0.103	5000	0.6	10	0.0012

[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	G	SW8270C	0.103	5000	0.6	10	0.0012
i. Acenaphthylene	208968	☐	☒	1	G	SW8270C	0.103	1000	0.12	10	0.0012
j. Anthracene	120127	☐	☒	1	G	SW8270C	1.03	1000	0.12	10	0.0012
k. Benzo(ghi) Perylene	191242	☐	☒	1	G	SW8270C	1.03	1000	0.12	10	0.0012
l. Fluoranthene	206440	☐	☒	1	G	SW8270C	1.03	1000	0.12	10	0.0012
m. Fluorene	86737	☐	☒	1	G	SW8270C	1.03	1000	0.12	10	0.0012
n. Naphthalene	91203	☐	☒	1	G	SW8270C	1.03	1000	0.12	10	0.0012
o. Phenanthrene	85018	☐	☒	1	G	SW8270C	1.03	1000	0.12	10	0.0012
p. Pyrene	129000	☐	☒	1	G	SW8270C	1.03	1000	0.12	10	0.0012
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	1	G	SW8082	0.674	ND			
38. Chloride	16887006	☐	☐								
39. Antimony	7440360	☒	☐	1	G	E200.9	1	ND			
40. Arsenic	7440382	☐	☒	1	G	E200.9	1	20	0.0024	11.8	0.0014
41. Cadmium	7440439	☒	☐	1	G	SW6010B	4	ND			
42. Chromium III (trivalent)	16065831	☒	☐	1	G	E200.7	60	ND			
43. Chromium VI (hexavalent)	18540299	☒	☐	1	G	SW3500	50	ND			
44. Copper	7440508	☒	☐	1	G	SW6010B	15	ND			
45. Lead	7439921	☐	☒	1	G	SW6010B	10	60	7.2	30	3.6
46. Mercury	7439976	☒	☐	1	G	E245.1	0.5	ND			
47. Nickel	7440020	☒	☐	1	G	SW6010B	100	ND			
48. Selenium	7782492	☒	☐	1	G	SW6010B	50	ND			
49. Silver	7440224	☒	☐	1	G	E200.7	7	ND			
50. Zinc	7440666	☒	☐	1	G	SW6010B	180	ND			
51. Iron	7439896	☐	☒	1	G	SW6010B	60	15000	2	7280	0.87
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?
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: DF: Metal: DF: Metal: DF: Metal: DF: Etc.	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ○ N ◉ If Y, list which metals:

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

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

See Attached Figure

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):			

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 90 gpm
Design flow rate of treatment system 30-90 gpm

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 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:
Storm drain to Reserved channel in Boston Harbor

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 N/A

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

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

Is there a final TMDL? Y ○ N ⊙ If yes, for which pollutant(s)? _____

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.

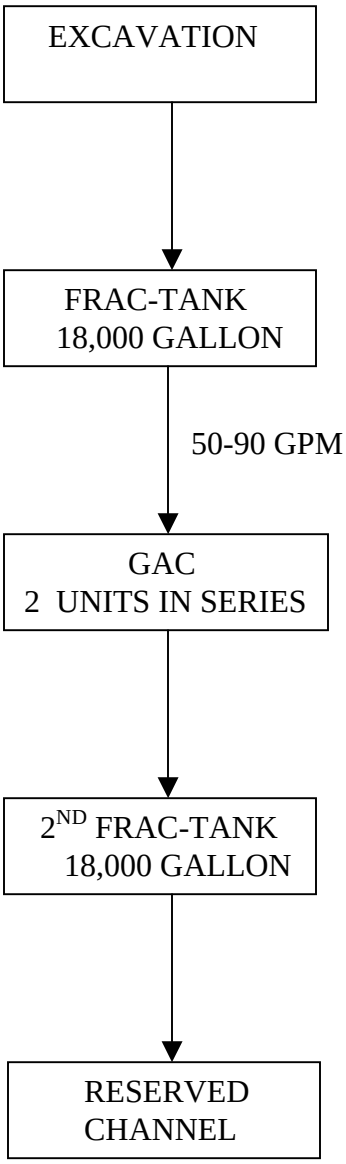
Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

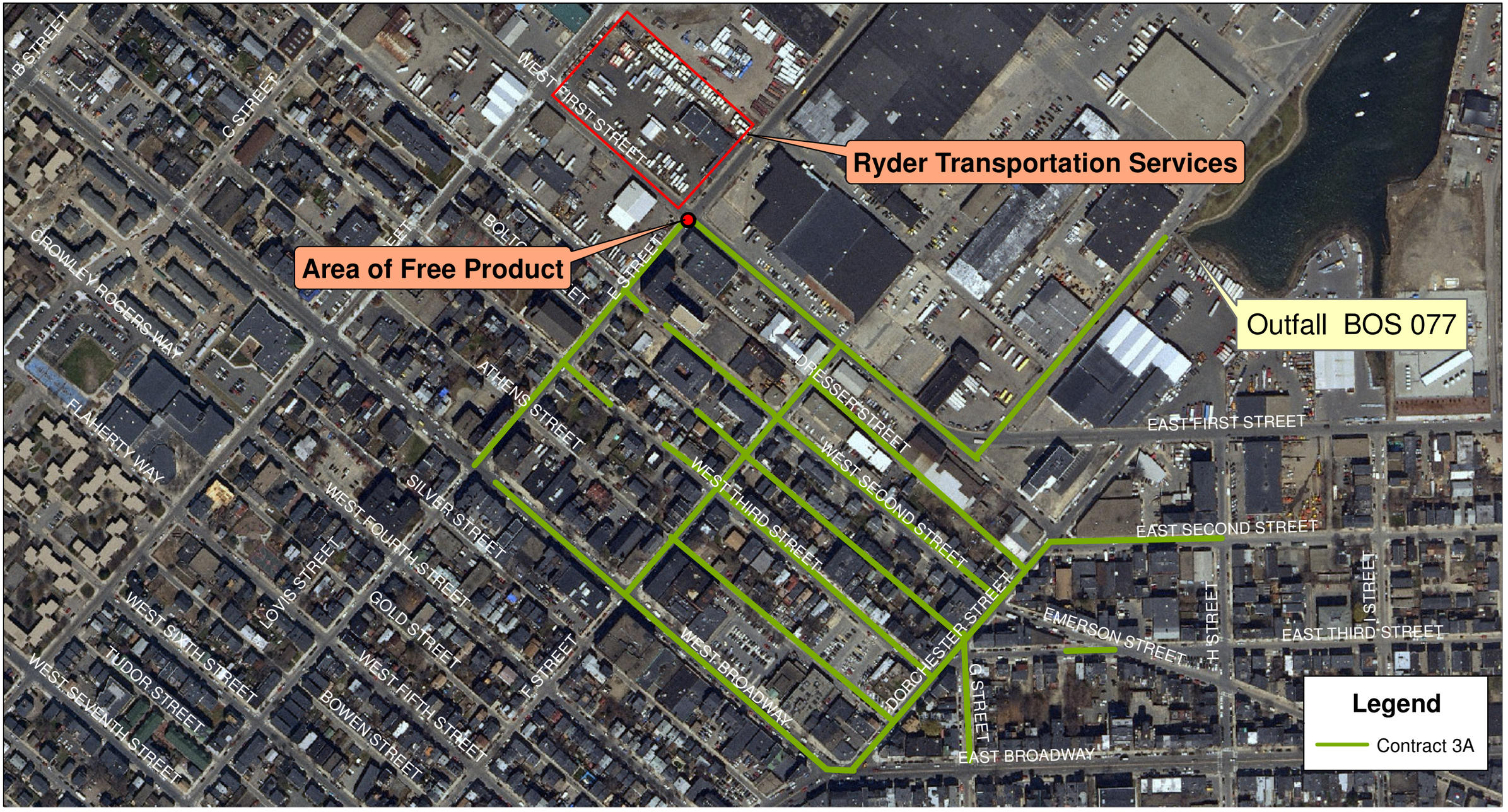
8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

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:	RESERVED CHANNEL SEPARATION PROJECT
Operator signature:	William C Beyer
Printed Name &Title:	WILLIAM C. BEYER, PRINCIPAL HYDROGEOLOGIST, LSP
Date:	2/11/11

Proposed Treatment for Construction Dewatering `
Drainage, Water and Sewerage Improvements
Reserved Channel, South Boston





N

0 250 500 1,000 Feet

Reserved Channel Sewer Separation Project
Boston Water and Sewer Commission

ENGINEERS FST Since 1914

Fay, Spofford & Thorndike

POST-CLASS C RESPONSE ACTION OUTCOME STATUS
AND
REMEDIAL MONITORING REPORT

JANUARY 2011

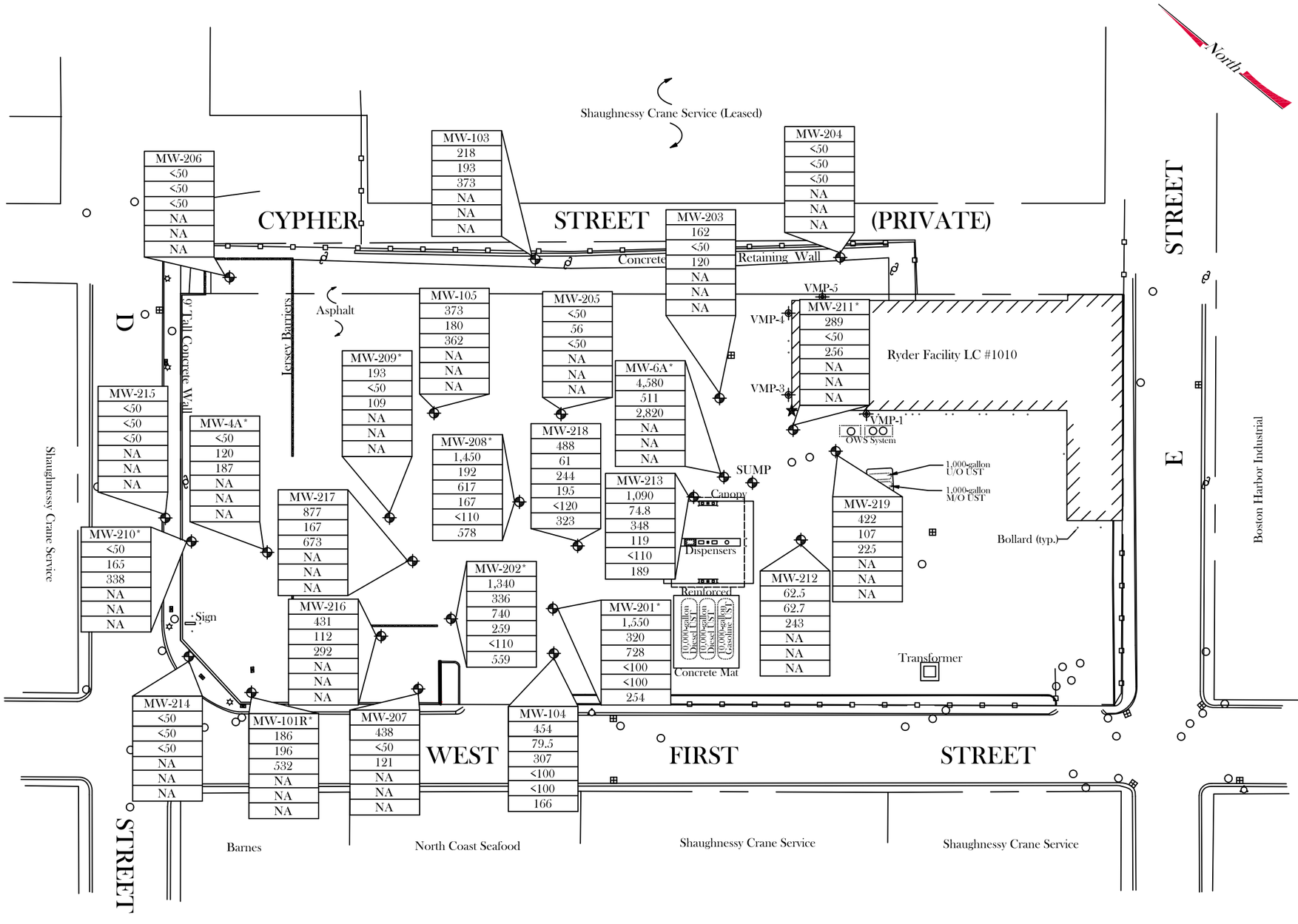
RYDER FACILITY LOCATION CODE #1010
280 WEST FIRST STREET
SOUTH BOSTON
MASSACHUSETTS 02127
RTN 3-2401

Prepared for:
Ryder Transportation Services
Attn: Ms. Carrie Anne Vinch
160 Lawrenceville-Pennington Road
Suite 16 – PMB 119
Lawrenceville, NJ 08648
(609) 895-8500

Prepared by:
CARRIAGEHOUSE CONSULTING, INC.
8 Pleasant Street
South Natick, MA 01760
(508) 315-3146

Supervising Professional:
Brian D. Moore
P.G., L.S.P.

CHCI Project #:MA040106B



KEY

- Monitoring Well
- Property Boundary(ies)
- Catch Basin
- Fire Hydrant
- Manhole Cover
- Utility Pole
- Street Lamp
- Traffic Control Box
- ★ Location of Local Benchmark (Elevation of 11.44 feet)
- UST Underground Storage Tank
- OWS Oil Water Separator
- M/O Motor Oil
- U/O Used Oil
- Chain Link Fence

MW-215	Well Identification
<50	C5 - C8 Aliphatics (ug/l) - adjusted
<50	C9 - C12 Aliphatics (ug/l) - adjusted
<50	C9 - C10 Aromatics (ug/l)
NA	C9 - C18 Aliphatics (ug/l) - adjusted
NA	C19 - C36 Aliphatics (ug/l) - adjusted
NA	C11 - C22 Aromatics (ug/l) - adjusted

ug/l micrograms per liter

< Not detected (method detection limit provided)

* indicates non-aqueous phase liquid (NAPL) typically present in well.

WI Well Inaccessibe

NA Not Analyzed

Data obtained on 08/12/10 except for the following wells obtained on 08/13/10: MW-6A, MW-103, MW-205, MW-211, MW-212, MW-213, and MW-219.

FIGURE 5

HYDROCARBON DISTRIBUTION PLAN - 08/12/10
Ryder Facility Location Code #1010
280 West First Street
South Boston, Massachusetts

Ref.: 2010 08 12 HDP	Checked By:
Drafted By: ECS	Date: 08/20/10
Revised By: BDM	Date: 12/14/10
Source: BRA, GSC, GZA, Kimball Chase, NEI, Ransom, and Alpha Surveying Site Plans, and CHCI Reconnaissance	