



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

5 Post Office Square, Suite 100

BOSTON, MA 02109-3912

**CERTIFIED MAIL**

**MAR 22 2011**

Robert Bailey  
Project Manager  
Walsh Construction Co.  
2 Commercial Street  
Sharon, MA 02067

Re: Authorization to discharge under the Remediation General Permit (RGP) –  
MAG910000. North Dorchester Bay CSO Pump Station site located at 1914 William J.  
Day Blvd, Boston, MA 02127, Suffolk County; Authorization # MAG910425 –  
Reissuance.

Dear Mr. Bailey:

Based on the review of a Notice of Intent (NOI) submitted on behalf of Massachusetts  
Water Resources Authority (MWRA) and the Operator Walsh Construction by the firm  
OHI Engineering Inc., 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 that the checklist include parameters categorized as follows:

1. Parameters you have marked "believed present". These include number 1, total suspended solids, number 3, total petroleum hydrocarbons, number 40, arsenic, number 42, trivalent chromium, number 44, copper, number 45, lead, number 50, zinc, and number 51 iron.



2. Pollutants which you have market "believed absent" but for which you have not provided supporting laboratory data not older than 2 years to substantiate their absence. These pollutants are too numerous to mention and includes numbers 2, 4, 10, 12, 13, 15-35e, 37, and 38, Please see the attached monitoring list for more information on the parameters names and limitations for each parameter.

It is important that you know that you are required to report information for all the parameters for the category you have selected, especially since you have selected three activity categories (I,II,III), and their respective subcategories. For these you are required to provide influent data on all 52 parameters not just the ones you have selected to provide information.

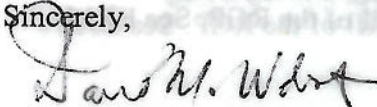
Also, please note that the metals included on the list are dilution dependent pollutants and subject to limitations based on selected dilution ranges and technology-based ceiling limitations for facilities located in Massachusetts. Due to the absent of dilution of freshwater into tidal water, EPA determined that the effluent discharged at the North Dorchester Bay CSO site is within one to five range (1-5) dilution range concentration(DRC). (See the DRC in Appendix IV for Massachusetts facilities). Therefore, the limits arsenic of 36ug/L, trivalent chromium of 100ug/L, copper of 3.7ug/L, lead of 8.5ug/L, zinc of 85.6, and iron of 1000ug/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 certification can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP requirements.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on 06/04/2011. 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  
James R. Borrebach, OHI Engineering, Inc.



**2010 Remediation General Permit  
Summary of Monitoring Parameters<sup>[1]</sup>**

<b>NPDES Authorization Number:</b>	<b>MAG910 - Reissuance</b>
<b>Date Authorization Issued:</b>	March, 2011
<b>Facility/Site Name:</b>	North Dorchester Bay CSO Pump Station
<b>Facility/Site Address:</b>	Site located at 1914 William J. Day Blvd, Boston, MA 02127, Suffolk County
<b>Legal Name of Operator:</b>	Walsh Construction co.
<b>Operator contact name, title, and Address:</b>	Robert Bailey, Project Manager, 2 Commercial Street, Sharon, MA 02067
<b>Estimated Date of Completion:</b>	June 4, 2011
<b>Category and Sub-Category:</b>	Activity I, II, III, Sub-categories B & C; B; and A&B, Respectively.
<b>Receiving Water:</b>	Reserved Channel/ Boston Harbor

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

	<b>Parameter</b>	<b>Effluent Limit/Method# /ML</b> (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) <sup>1</sup>	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) <sup>2,3</sup>	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) <sup>4</sup>	100 ug/L/ Me#8260C/ ML 2ug/L



	<b>Parameter</b>	<b>Effluent Limit/Method#/ML</b> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
✓	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 <sup>5</sup>	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) <sup>6</sup>	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 <sup>7</sup>	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L



	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
✓	b. Benzo(a) Pyrene <sup>7</sup>	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	c. Benzo(b)Fluoranthene <sup>7</sup>	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	d. Benzo(k)Fluoranthene <sup>7</sup>	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	e. Chrysene <sup>7</sup>	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene <sup>7</sup>	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 <sup>7</sup>	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 <sup>5</sup>	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) <sup>8,9</sup>	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

	<u>Metal parameter</u>	<u>Total Recoverable Metal Limit @ H <sup>10</sup> = 50 mg/l CaCO<sub>3</sub> for discharges in Massachusetts (ug/l)</u> <small>11/12</small>		<u>Minimum level=ML</u>
		<u>Freshwater</u>	<u>Saltwater</u>	
	39. Antimony	5.6/ML 10		
✓	40. Arsenic **		36/ML 20	



	<b>Metal parameter</b>	<b>Total Recoverable Metal Limit @ H<sup>10</sup> = 50 mg/l CaCO<sub>3</sub> for discharges in Massachusetts (ug/l)</b> 11/12		<b>Minimum level=ML</b>
		<b>Freshwater</b>	<b>Saltwater</b>	
	41. Cadmium **		8.9/ML 10	
✓	42. Chromium III (trivalent) **		100/ML 15	
	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		

	<b>Other Parameters</b>	<b>Limit</b>
✓	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 <sup>13</sup>
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab <sup>13</sup>
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab <sup>13</sup>
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab <sup>14</sup>
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab <sup>14</sup>
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab <sup>14</sup>
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab <sup>14</sup>
	61. Maximum Change in Temperature in MA - Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab <sup>14</sup>
	62. Maximum Change in Temperature in MA - Any Class SA water body - Coastal	1.5°F; 1/Month/Grab <sup>14</sup>
	63. Maximum Change in Temperature in MA - Any Class SB water body - July to September	1.5°F; 1/Month/Grab <sup>14</sup>
	64. Maximum Change in Temperature in MA -	4°F; 1/Month/Grab <sup>14</sup>



Footnotes:

<sup>1</sup> 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).

<sup>2</sup> 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.

<sup>3</sup> 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).

<sup>4</sup> BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.

<sup>5</sup> 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.

<sup>6</sup> 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.*

<sup>7</sup> 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.

<sup>8</sup> 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.

<sup>9</sup> 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).

<sup>10</sup> Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.

<sup>11</sup> 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  $DF \times 1,000\text{ug/L}$  (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =  $1,000 \times 2 = 2,000 \text{ ug/L}$ ., etc. not to exceed the  $DF=5$ .

<sup>12</sup> 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





44 Wood Avenue  
Mansfield, MA 02048  
Tel (508) 339 - 3929  
Fax (508) 339 - 3140

December 7, 2010

Mr. Victor Alvarez  
United States Environmental Protection - Region 1  
1 Congress Street, Suite 1000  
Boston, MA 02114

Re: Submittal of Notice of Intent  
Construction Dewatering  
North Dorchester Bay CSO Pump Station and Sewers  
MassDEP Project #006-1172  
**Previous NPDES Permit Number MAG910425**

Dear Mr. Alvarez,

OHI Engineering, Inc.(OHI) on behalf of Walsh Construction Corporation (Walsh) has prepared this Notice of Intent (NOI) for an application of a National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) for the ongoing North Dorchester Bay Combined Sewer Overflow Pump Station and Sewer Project.

Walsh as operator is submitting this re-application for coverage under the 2010 Remediation General Permit. The previous NPDES Permit Number was **MAG910425**.

If you have any questions in respect to this re-filing please contact us at your convenience at 508-339-3929.

Regards,

OHI Engineering, Inc.

A handwritten signature in black ink, appearing to read "James R. Borrebach", written over a white background.

James R. Borrebach, P.E., L.S.P.  
Principal

attachment



**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: North Dorchester Bay CSO Pump 5		<b>Facility/site mailing address:</b>	
Location of facility/site:	Facility SIC code(s):	Street:	
longitude: 42o20'18"	1623	1914 William J. Day Blvd.	
latitude: 71o01'16"			
b) Name of facility/site owner:		Town: Boston	County:
Email address of facility/site owner:		State: MA	Suffolk
jeffrey.mclaughlin@mwra.state.ma.us		Zip: 02127	
Telephone no. of facility/site owner: (617) 660-7976		<b>Owner is (check one):</b> 1. Federal <input type="radio"/> 2. State/Tribal <input checked="" type="radio"/>	
Fax no. of facility/site owner: MWRA		3. Private <input type="radio"/> 4. Other <input type="radio"/> if so, describe:	
Address of owner (if different from site):		MWRA	
Street: Charlestown Navy Yard, 100 First Ave, Building 39			
Town: Boston	State: MA	Zip: 02129	County: Suffolk
c) Legal name of operator:		Operator telephone no: (781) 793-7788	
Walsh Construction Co.		Operator fax no.: (781) 793-9294	
Operator contact name and title:		Operator email: info@walshgroup.com	
Robert Bailey, Project Manager			
Address of operator (if different from owner):		Street: 2 Commercial Street	
Town: Sharon	State: MA	Zip: 02067	County: Norfolk



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 #:  MAG910425

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 <input type="checkbox"/> B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) <input checked="" type="checkbox"/> C. Petroleum Sites with Additional Contamination <input checked="" type="checkbox"/>
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites <input type="checkbox"/> B. VOC Sites with Additional Contamination <input checked="" type="checkbox"/> C. Primarily Heavy Metal Sites <input type="checkbox"/>
III - Contaminated Construction Dewatering	A. General Urban Fill Sites <input checked="" type="checkbox"/> B. Known Contaminated Sites <input checked="" type="checkbox"/>



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

**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 of excavations conducted while constructing combine sewer overflow pump station. Effluent is treated (See 4, below) and discharged to on-site infiltration gallery.																			
b) Provide the following information about each discharge:																				
1) Number of discharge points: 1	2) What is the <b>maximum</b> and <b>average flow rate</b> of discharge (in cubic feet per second, ft <sup>3</sup> /s)? Max. flow: 0.557 Is maximum flow a design value? Y <input type="radio"/> N <input checked="" type="radio"/> Average flow (include units): 0.229 ft <sup>3</sup> /s Is average flow a design value or estimate? Estimate																			
3) Latitude and longitude of each discharge within 100 feet:	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">pt.1: lat</td> <td style="width: 15%;">42o20'18"</td> <td style="width: 15%;">long</td> <td style="width: 15%;">71o01'16"</td> <td style="width: 15%;">pt.2: lat</td> <td style="width: 15%;">long</td> <td style="width: 15%;">pt.3: lat</td> <td style="width: 15%;">long</td> <td style="width: 15%;">pt.4: lat</td> <td style="width: 15%;">long</td> <td style="width: 15%;">pt.5: lat</td> <td style="width: 15%;">long</td> <td style="width: 15%;">pt.6: lat</td> <td style="width: 15%;">long</td> <td style="width: 15%;">pt.7: lat</td> <td style="width: 15%;">long</td> <td style="width: 15%;">pt.8: lat</td> <td style="width: 15%;">long</td> <td style="width: 15%;">etc.</td> </tr> </table>	pt.1: lat	42o20'18"	long	71o01'16"	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.
pt.1: lat	42o20'18"	long	71o01'16"	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 <input checked="" type="radio"/> or seasonal <input type="radio"/> ? Is discharge ongoing? Y <input checked="" type="radio"/> N <input type="radio"/>																			
c) Expected dates of discharge (mm/dd/yy):	start: 06/15/09 end: 06/04/11																			
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)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	18	grab	SM 2540 D	5 mg/l	1,800,000	2,453	268,610	151
2. Total Residual Chlorine (TRC)		<input checked="" type="checkbox"/>	<input type="checkbox"/>								
3. Total Petroleum Hydrocarbons (TPH)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	18	grab	EPA 8015B MG <sub>H</sub>	0.02 mg/l	500	0.69	90	0.05
4. Cyanide (CN)	57125	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
5. Benzene (B)	71432	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	MA DEP EPH/PPH	1.0 ug/l	<1.0	-	<1.0	-
6. Toluene (T)	108883	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab		1.0 ug/l	<1.0	-	<1.0	-
7. Ethylbenzene (E)	100414	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab		1.0 ug/l	<1.0	-	<1.0	-
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab		1.0 ug/l	<1.0	-	<1.0	-
9. Total BTEX <sup>2</sup>	n/a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab		1.0 ug/l	<1.0	-	<1.0	-
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) <sup>3</sup>	106934	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
11. Methyl-tert-Butyl Ether (MTBE)	1634044	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	MA DEP VPH	1.0 ug/l	<1.0	-	<1.0	-
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	<input checked="" type="checkbox"/>	<input type="checkbox"/>								

\* 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.

<sup>2</sup> BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

<sup>3</sup> 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
14. Naphthalene	91203	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	MA DEP EPH	2.1 ug/l	<1.0		<1.0	
15. Carbon Tetrachloride	56235	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
16. 1,2 Dichlorobenzene (o-DCB)	95501	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
17. 1,3 Dichlorobenzene (m-DCB)	541731	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
18. 1,4 Dichlorobenzene (p-DCB)	106467	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
18a. Total dichlorobenzene		<input checked="" type="checkbox"/>	<input type="checkbox"/>								
19. 1,1 Dichloroethane (DCA)	75343	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
20. 1,2 Dichloroethane (DCA)	107062	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
21. 1,1 Dichloroethene (DCE)	75354	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
22. cis-1,2 Dichloroethene (DCE)	156592	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
23. Methylene Chloride	75092	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
24. Tetrachloroethene (PCE)	127184	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
25. 1,1,1 Trichloro-ethane (TCA)	71556	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
26. 1,1,2 Trichloro-ethane (TCA)	79005	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
27. Trichloroethene (TCE)	79016	<input checked="" type="checkbox"/>	<input type="checkbox"/>								



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	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
29. Acetone	67641	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
30. 1,4 Dioxane	123911	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
31. Total Phenols	108952	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
32. Pentachlorophenol (PCP)	87865	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
33. Total Phthalates (Phthalate esters) <sup>4</sup>		<input checked="" type="checkbox"/>	<input type="checkbox"/>								
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>								
a. Benzo(a) Anthracene	56553	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
b. Benzo(a) Pyrene	50328	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
c. Benzo(b)Fluoranthene	205992	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
d. Benzo(k)Fluoranthene	207089	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
e. Chrysene	21801	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
f. Dibenzo(a,h)anthracene	53703	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	M8270	2.1 ug/l	<2.1	-	<2.1	-
g. Indeno(1,2,3-cd) Pyrene	193395	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	M8270	2.1 ug/l	<2.1	-	<2.1	-
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	M8270	100	<100	-	<100	-

<sup>4</sup> 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	M8270	2.1 ug/l	<2.1	-	<2.1	-
i. Acenaphthylene	208968	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	M8270	2.1 ug/l	<2.1	-	<2.1	-
j. Anthracene	120127	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	M8270	2.1 ug/l	<2.1	-	<2.1	-
k. Benzo(ghi) Perylene	191242	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	M8270	2.1 ug/l	<2.1	-	<2.1	-
l. Fluoranthene	206440	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	M8270	2.1 ug/l	<2.1	-	<2.1	-
m. Fluorene	86737	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	M8270	2.1 ug/l	<2.1	-	<2.1	-
n. Naphthalene	91203	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	M8270	2.1 ug/l	<2.1	-	<2.1	-
o. Phenanthrene	85018	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	M8270	2.1 ug/l	<2.1	-	<2.1	-
p. Pyrene	129000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	M8270	2.1 ug/l	<2.1	-	<2.1	-
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
38. Chloride	16887006	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
39. Antimony	7440360	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	EPA 6020	5.0 ug/l	<5.0	-	<5.0	-
40. Arsenic	7440382	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18	grab	EPA 6010B	1 ug/l	80	0.11	27.78	0.02
41. Cadmium	7440439	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	EPA 6010B	0.5 ug/l	<20	-	<20	-
42. Chromium III (trivalent)	16065831	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18	grab	EPA 6010B	20 ug/l	20	0.03	2.35	0.001
43. Chromium VI (hexavalent)	18540299	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18	grab	EPA 6010B	20 ug/l	<20	-	<20	-
44. Copper	7440508	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18	grab	EPA 6010B	25 ug/l	67	0.09	15.47	0.009
45. Lead	7439921	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18	grab	EPA 6010B	5 ug/l	9	0.012	0.53	0.0003
46. Mercury	7439976	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
47. Nickel	7440020	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18	grab	EPA 6010B	2.0 ug/l	<2.0	-	<2.0	-
48. Selenium	7782492	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	EPA 6020A	1.1 ug/l	<1.1	-	<1.1	-
49. Silver	7440224	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	EPA 6020A	1.0 ug/l	<1.0	-	<1.0	-
50. Zinc	7440666	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18	grab	EPA 6010B	20 ug/l	60	0.081	3.33	0.002
51. Iron	7439896	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18	grab	EPA 6010B	100 ug/l	12,000	16.35	3905	2.2
Other (describe):		<input type="checkbox"/>	<input type="checkbox"/>								



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)
Barium	7440393	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	EPA 6020A	2.5 ug/l	96	0.13	96	0.05

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

<p><i>Step 1:</i> Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y <input checked="" type="radio"/> N <input type="radio"/></p> <p><i>Step 2:</i> 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?</p> <p>Metal: Arsenic DF: _____</p> <p>Metal: Copper DF: _____</p> <p>Metal: Iron DF: _____</p> <p>Metal: _____ DF: _____</p> <p>Etc.</p>	<p>If yes, which metals?          Arsenic Copper Iron</p> <p>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 <input checked="" type="radio"/> N <input type="radio"/> If Y, list which metals:          Iron</p>
--	---

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

<p>a) A description of the treatment system, including a schematic of the proposed or existing treatment system:          Influent pumped from excavation to frac. tanks, bag filters, and GAC filter before being discharged to on-site infiltration gallery.</p>						
<p>b) Identify each applicable treatment unit (check all that apply):</p>	<input checked="" type="checkbox"/> Frac. tank	<input type="checkbox"/> Air stripper	<input checked="" type="checkbox"/> Oil/water separator	<input type="checkbox"/> Equalization tanks	<input checked="" type="checkbox"/> Bag filter	<input checked="" type="checkbox"/> GAC filter
	<input type="checkbox"/> Chlorination	<input type="checkbox"/> 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  gpm Maximum flow rate of treatment system  gpm  
 Design flow rate of treatment system  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 <input type="checkbox"/>	Within facility (sewer) <input checked="" type="checkbox"/>	Storm drain <input type="checkbox"/>	Wetlands <input type="checkbox"/>	Other (describe): <input type="text"/>
------------------------------------	--	---	--------------------------------------	-----------------------------------	--

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:  
 Receiving water is Reserve Channel

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 discharges, indicate the location of the discharge to the indirect conveyance and the discharge to surface water  
 The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water:

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

f) Is the receiving water a listed 303(d) water quality impaired or limited water? 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.



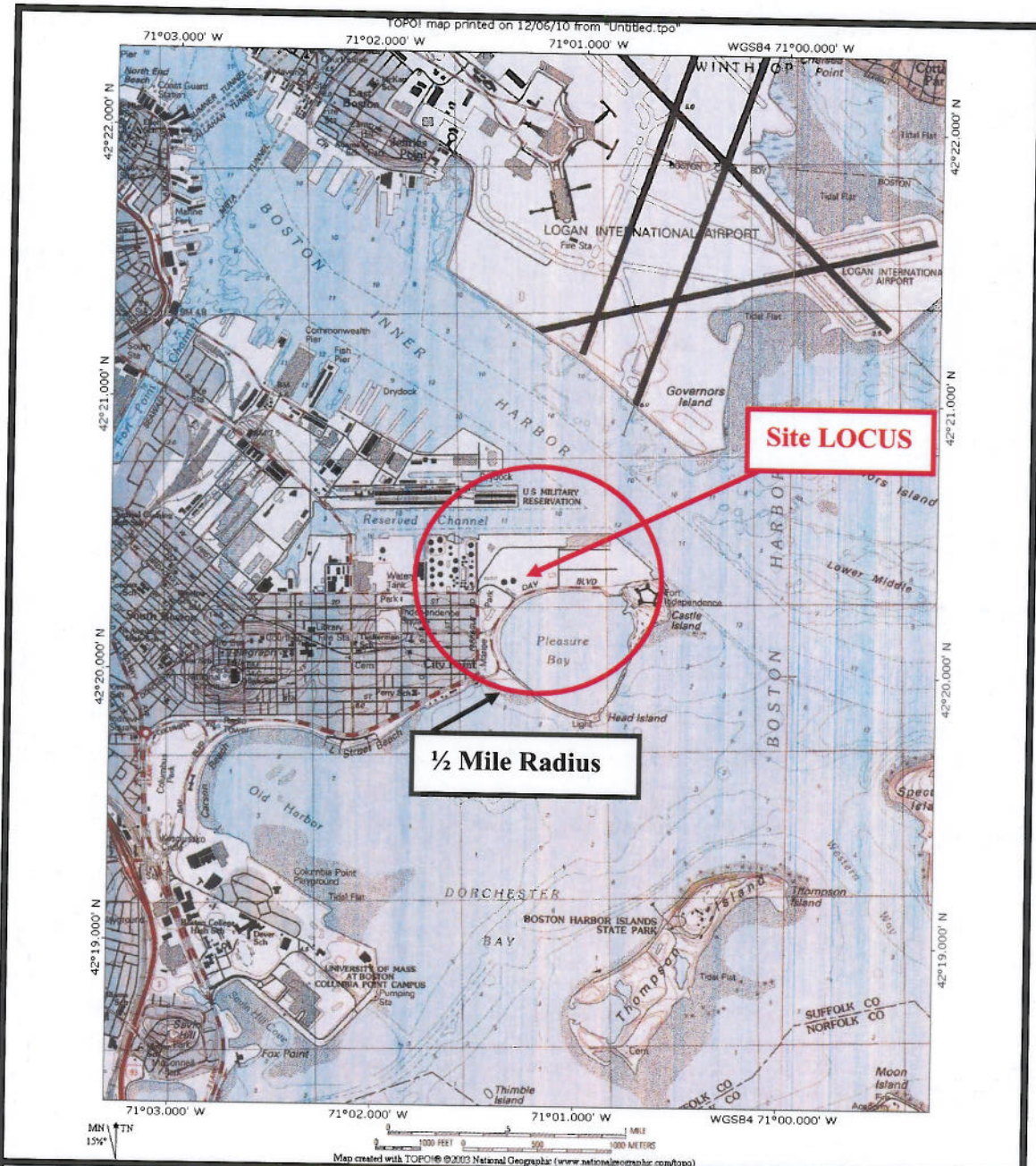
**8. Signature Requirements:** The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

*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:	North Dorchester Bay CSO Pump Station
Operator signature:	
Printed Name & Title:	Robert Bailey, Project Manager
Date:	12/26/10

## FIGURES





**Site LOCUS**

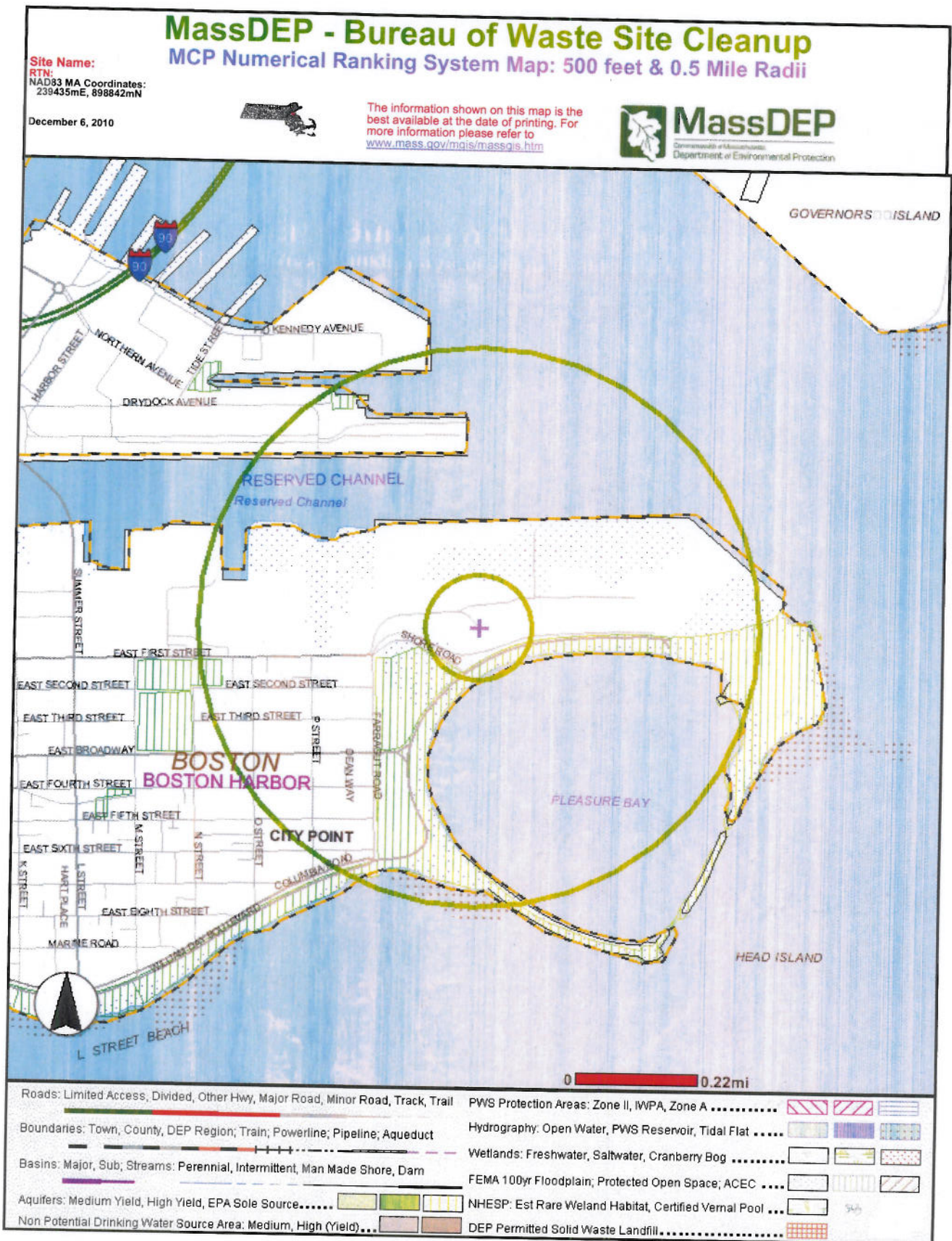
**Figure 1**

**1914 William Day Blvd.**  
**South Boston, MA**

**OHI**  
*OHI Engineering, Inc.*  
 Engineers and Environmental Scientists  
 44 Wood Avenue · Mansfield, MA

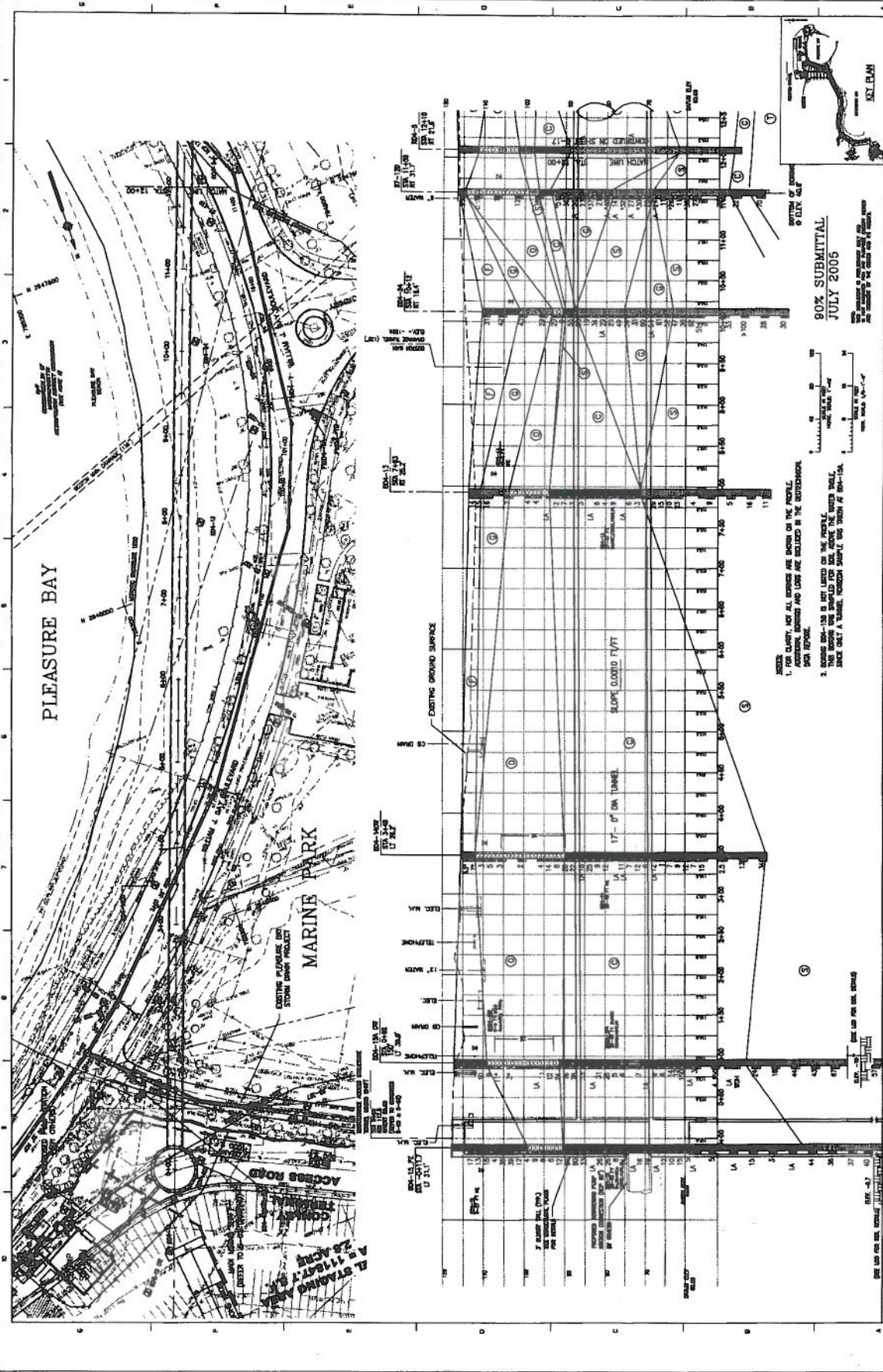








BOH-15A OW



NOTES

1. FOR CLARITY, NOT ALL SERVICES ARE SHOWN ON THE PROFILE. EXISTING, PROPOSED AND UNDER CONSTRUCTION SERVICES ARE INDICATED IN THE APPROPRIATE MANNER.
2. ELEVATIONS SHOWN ARE BASED ON THE PROFILE. ELEVATIONS SHOWN ON THE PROFILE ARE BASED ON THE PROFILE. ELEVATIONS SHOWN ON THE PROFILE ARE BASED ON THE PROFILE.

90% SUBMITTAL  
JULY 2005



MASSACHUSETTS WATER RESOURCES AUTHORITY PLAN & PROFILE I SHEET 1 OF 9 NORTH DORCHESTER BAY COO STORAGE TUNNEL	
CONTRACT NO. 2004-01 CONTRACT DATE 02/02/04 PROJECT NO. 02-02-001 SHEET NO. C-15	DATE FOR THE BAY AREA: 11/11/04 DATE FOR THE PROFILE: 11/11/04 DATE FOR THE TUNNEL: 11/11/04
DESIGNER: [Blank] CHECKED: [Blank] APPROVED: [Blank]	DRAWN BY: [Blank] CHECKED BY: [Blank] APPROVED BY: [Blank]