



November 21, 2005
Project 5-18

Mr. Doug Corb
U.S. EPA Region 1
1 Congress Street, Suite 1100
Boston, Massachusetts 02114

Re: Remediation General Permit Notice of Intent for construction dewatering at Coastal Oil
of New England, 900 East First Street, Boston, Massachusetts.

Dear Mr. Coleman:

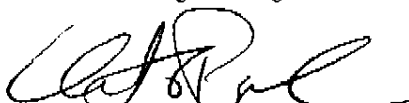
Ambient Engineering, Inc. (Ambient) is pleased to submit this Remediation General Permit (RGP) Notice of Intent (NOI) on behalf of El Paso Corporation for the above-referenced site. The NOI is for a project that was previously covered by a NPDES Exclusion Letter.

The dewatering is necessary to excavate petroleum contaminated soils that are being treated in an on-site bioremediation pile. Since the soil bioremediation is a batch process, excavation occurs intermittently. We are planning to begin excavation work for a new bioremediation pile next week.

Under the terms of the NPDES Exclusion Letter, there were no requirements to treat the dewatering water for metals. As such, in planning for the upcoming excavation, no specific metals removal technologies were included. As you will see from the attached NOI, elevated levels of iron and zinc were detected in the groundwater samples taken recently to meet the requirements of the RGP application. We are hopeful that the treatment process that we have in place (which includes settling, separation, filtration, and carbon adsorption) will reduce the levels of iron and zinc levels to concentrations below the RGP effluent limits, adjusted for five-fold dilution in the Reserved Channel. Ambient will monitor the treatment system effluent, as required under the RGP. If iron and zinc are found to exceed the RGP limits, we will modify the treatment system to include a metals removal process within six months. We understand, from your telephone conversation of last week with Ambient's Ellen Weitzler, that this is an acceptable approach.

Please feel free to call us at 978-369-8188 if you have any questions.

Very truly yours,
Ambient Engineering, Inc.


Ken Pyzocha, P.E., CHMM
Senior Project Manager


Ellen Weitzler, P.E.
Environmental Engineer



Ambient Engineering, Inc.
100 Main Street
Concord, MA 01742

Tel: (978) 369-8188
(888) AMB-8232
Fax: (978) 369-8380

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

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

a) Name of facility/site: Coastal Oil of New England		Facility/site address: Coastal Oil of New England		
Location of facility/site: longitude: <u>71o01'30"</u> latitude: <u>42o20'30"</u>		Facility SIC code(s): 5171		Street: 900 East First Street
b) Name of facility/site owner: El Paso Corporation		Town: South Boston		
Email address of owner: Roger D. Towe, P.E. Manager Engineering Environmental Remediation roger.towe@elpaso.com		State: MA	Zip: 02127	County: Suffolk
Telephone no. of facility/site owner: (713) 420-4755				
Fax no. of facility/site owner:		Owner is (check one): 1. Federal ____ 2. State/Tribal ____		
Address of owner (if different from site):		3. Private ☒ 4. other, if so, describe:		
Street: 1001 Louisiana Street				
Town: Houston	State: TX	Zip: 77002	County: Harris	
c) Legal name of operator: Ambient Engineering, Inc.		Operator telephone no: (978) 369-8188		
		Operator fax no.: (978) 369-8380	Operator email: kpyzocha@ambient-engineering.com	
Operator contact name and title: Kenneth G. Pyzocha, P.E., Senior Project Manager				

Address of operator (if different from owner):		Street: 100 Main Street	
Town: Concord	State: MA	Zip: 01742	County: Middlesex

d) Check "yes" or "no" for the following:

- Has a prior NPDES permit exclusion been granted for the discharge? Yes ☒ No ☐ if "yes," number: MA-041-086
- Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes ☐ No ☒ if "yes," date and tracking #: MA0004405
- Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes ☐ No ☒
- For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes ☒ No ☐

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes ☒ No ☐ If "yes," please list: - site identification # assigned by the state of NH or MA: RTN#3-00257 - permit or license # assigned: - state agency contact information: name, location, and telephone number:	f) Is the site/facility covered by any other EPA permit, including: - multi-sector storm water general permit? Y ☐ N ☒ if Y, number: - phase I or II construction storm water general permit? Y ☐ N ☒ if Y, number: - individual NPDES permit? Y ☐ N ☒ if Y, number: MA004405 - any other water quality related permit? Y ☐ N ☒ if Y, number:
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage: The discharge is a result of excavation dewatering. The purpose of the excavation is to remove petroleum contaminated soils for on-site bioremediation. the dewatering water will go through settling/oil separation in two frac tanks and and oil water separator prior to flow equalization in an on-site 2 million gallon storage tank. Equalized water will be filtered through bag filters and activated carbon prior to discharge into the Reserved Channel.		
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, ft³/s)? Max. flow 0.56 Average flow 0.37 Is maximum flow a design value? Y ☒ N ☐ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.
3) Latitude and longitude of each discharge within 100 feet: pt.1: long 71o01'30" lat. 42o20'30" pt.2: long. lat. ; pt.3: long. lat. ; pt.4: long. lat. ; pt.5: long. lat. ; pt.6: long. lat. ; pt.7: long. lat. ; pt.8: long. lat. ; etc.		

4) If hydrostatic testing, total volume of the discharge (gals): N/A	5) Is the discharge intermittent ☒ or seasonal _____? Is discharge ongoing Yes _____ No ☒ ?
c) Expected dates of discharge (mm/dd/yy): start 11/28/05 end 11/28/09	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

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

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

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

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids	✓		2	grab	160.2	4000	<4000	NA	<4000	NA
2. Total Residual Chlorine	✓		2	grab	330.4	50	<50	NA	<50	NA
3. Total Petroleum Hydrocarbons	✓		2	grab	1664	4100	<4100	NA	<4100	NA
4. Cyanide	✓		2	grab	335.3	10	<10	NA	<10	NA
5. Benzene		✓	2	grab	8260B	0.50	0.78	NA	0.52*	NA
6. Toluene	✓		2	grab	8260B	2.0	<2.0	NA	<2.0	NA
7. Ethylbenzene	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
8. (m,p,o) Xylenes	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
9. Total BTEX ⁴		✓	2	grab	sum		0.78	NA	0.52*	NA

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

*Since benzene was detected on one of the two samples, 1/2 the detection limit was assumed for the other sample for purposes of calculating daily average.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ng/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-ethane)	✓									
11. Methyl-tert-Butyl Ether (MtBE)	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
12. tert-Butyl Alcohol (TBA)	✓		2	grab	8260B	100	<100	NA	<100	NA
13. tert-Amyl Methyl Ether (TAME)	✓		2	grab	8260B	2.0	<2.0	NA	<2.0	NA
14. Naphthalene	✓		2	grab	8260B	5.0	<5.0	NA	<5.0	NA
15. Carbon Tetra-chloride	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
16. 1,4 Dichlorobenzene	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
17. 1,2 Dichlorobenzene	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
18. 1,3 Dichlorobenzene	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
19. 1,1 Dichloroethane	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
20. 1,2 Dichloroethane	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
21. 1,1 Dichloroethylene	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
22. cis-1,2 Dichloro-ethylene		✓	2	grab	8260B	1.0	3.0	NA	1.8	NA
23. Dichloromethane (Methylene Chloride)	✓		2	grab	8260B	2.0	<2.0	NA	<2.0	NA
24. Tetrachloroethylene	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
26. 1,1,2 Trichloroethane	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
27. Trichloroethylene	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
28. Vinyl Chloride	✓		2	grab	8260B	1.0	<1.0	NA	<1.0	NA
29. Acetone	✓		2	grab	8260B	5.0	<5.0	NA	<5.0	NA
30. 1,4 Dioxane	✓		2	grab	8260B	25	<25	NA	<25	NA
31. Total Phenols	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
32. Pentachlorophenol	✓		2	grab	8270C	10	<10	NA	<10	NA
33. Total Phthalates ⁵ (Phthalate esters)	✓		2	grab	8270C	10	<10	NA	<10	NA
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		2	grab	8270C	10	<10	NA	<10	NA
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)										
a. Benzo(a) Anthracene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
b. Benzo(a) Pyrene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
c. Benzo(b) Fluoranthene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
d. Benzo(k) Fluoranthene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
e. Chrysene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA

⁵ The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
g. Indeno(1,2,3-cd) Pyrene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓									NA
h. Acenaphthene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
i. Acenaphthylene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
j. Anthracene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
k. Benzo(ghi) Perylene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
l. Fluoranthene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
m. Fluorene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
n. Naphthalene-	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
o. Phenanthrene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
p. Pyrene	✓		2	grab	8270C	5.0	<5.0	NA	<5.0	NA
37. Total Polychlorinated Biphenyls (PCBs)	✓		2	grab	608	0.51	<0.51	NA	<0.51	NA
38. Antimony	✓		2	grab	200.7	6.0	<6.0	NA	<6.0	NA
39. Arsenic		✓	2	grab	200.7	5.0	29.3	NA	22.3	NA
40. Cadmium	✓		2	grab	200.7	4.0	<4.0	NA	<4.0	NA
41. Chromium III	✓		Not analyzed. However, both Total Chromium (see below) and Chromium VI were below detection limit.							
42. Chromium VI	✓		2	grab	SW846 7196A	0.010	<0.01	NA	<0.01	NA

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-intum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	✓		2	grab	200.7	25	<25	NA	<25	NA
44. Lead	✓		2	grab	200.7	10	<10	NA	<10	NA
45. Mercury	✓		2	grab	245.1	0.20	<0.20	NA	<0.20	NA
46. Nickel	✓		2	grab	200.7	40	<40	NA	<40	NA
47. Selenium	✓		2	grab	200.7	10	<10	NA	<10	NA
48. Silver	✓		2	grab	200.7	5.0	<5.0	NA	<5.0	NA
49. Zinc		✓	2	grab	200.7	20	679	NA	345	NA
50. Iron		✓		grab	200.7	100	10600	NA	9240	NA
Other (describe): Total Chromium	✓		2	grab	200.7	10	<10	NA	<10	NA

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

<i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y ☒ N ☐	If yes, which metals? Iron and Zinc
<i>Step 2:</i> For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: <u>Iron, zinc</u> DF: <u>>100</u>	Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ☒ N ☐ If "Yes," list which metals: <u>Iron</u>

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:

Water will be pumped at a rate up to 500 gpm from the excavation to two Frac Tanks in series and then flow by gravity to an existing oil water separator (OWS). From the OWS, the water will be pumped into a 2 million gallon storage tank and then pumped at a maximum flow of 250 gpm through bag filters and a three-stage carbon adsorption system. The attached process schematic depicts this process.

b) Identify each applicable treatment unit (check all that apply):

Frac. tank ✓	Air stripper	Oil/water separator ✓	Equalization tanks ✓	Bag filter ✓	GAC filter ✓
Chlorination	Dechlorination	Other (please describe):			

c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system:

Average flow rate of discharge 170 Maximum flow rate of treatment system 250 Design flow rate of treatment system 250

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

We are not expecting to add any chemicals as part of the treatment system.

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

a) Identify the discharge pathway:	Direct ✓	Within facility__	Storm drain ✓	River/brook__	Wetlands__	Other (describe):
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b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

From the treatment system, the treated water will flow by gravity into the existing storm drain system, north to the Reserved 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 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 SB _____,

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

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ☒ No _____ If yes, for which pollutant(s)?
pathogens

Is there a TMDL? Yes _____ No ☒ If yes, for which pollutant(s)?

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

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes _____ No ☒

Has any consultation with the federal services been completed? No ☒ or is consultation underway? Yes _____ No ☒

What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):

a "no jeopardy" opinion? _____ or written concurrence _____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?

Yes _____ No ☒ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes _____ No ☒

7. Supplemental information. :

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

ATTACHMENTS

Figure 1 - Site Locus Map

Figure 2 - Discharge Location Map

Figure 3 - Process Schematic

Dilution Calculation

Analytical Data

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

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

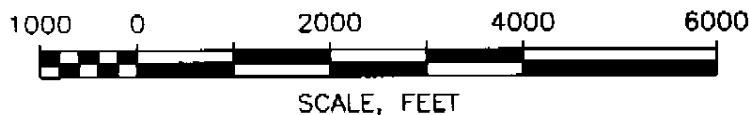
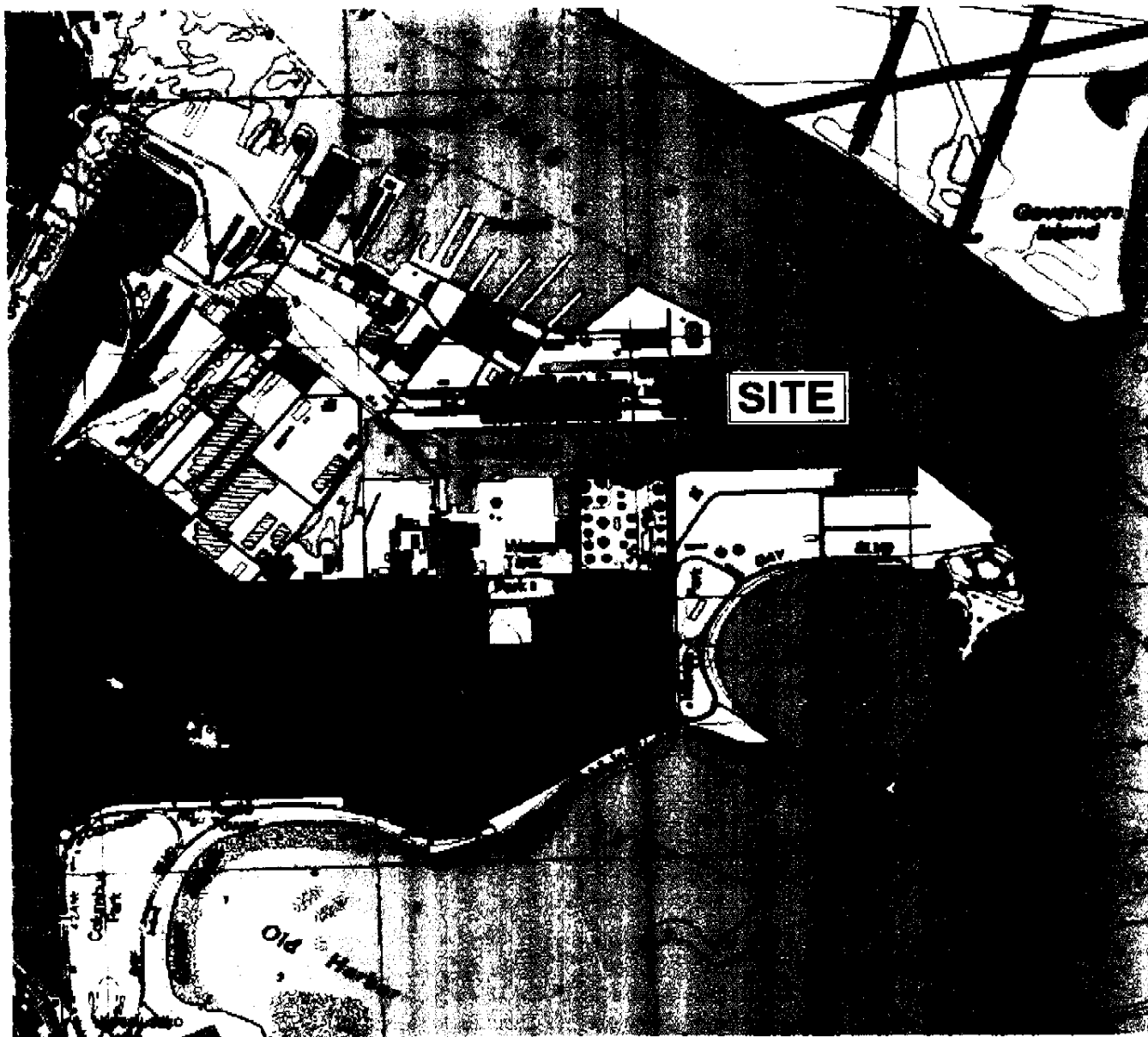
Facility/Site Name: Coastal Oil of New England

Operator signature:



Title: Senior Project Manager

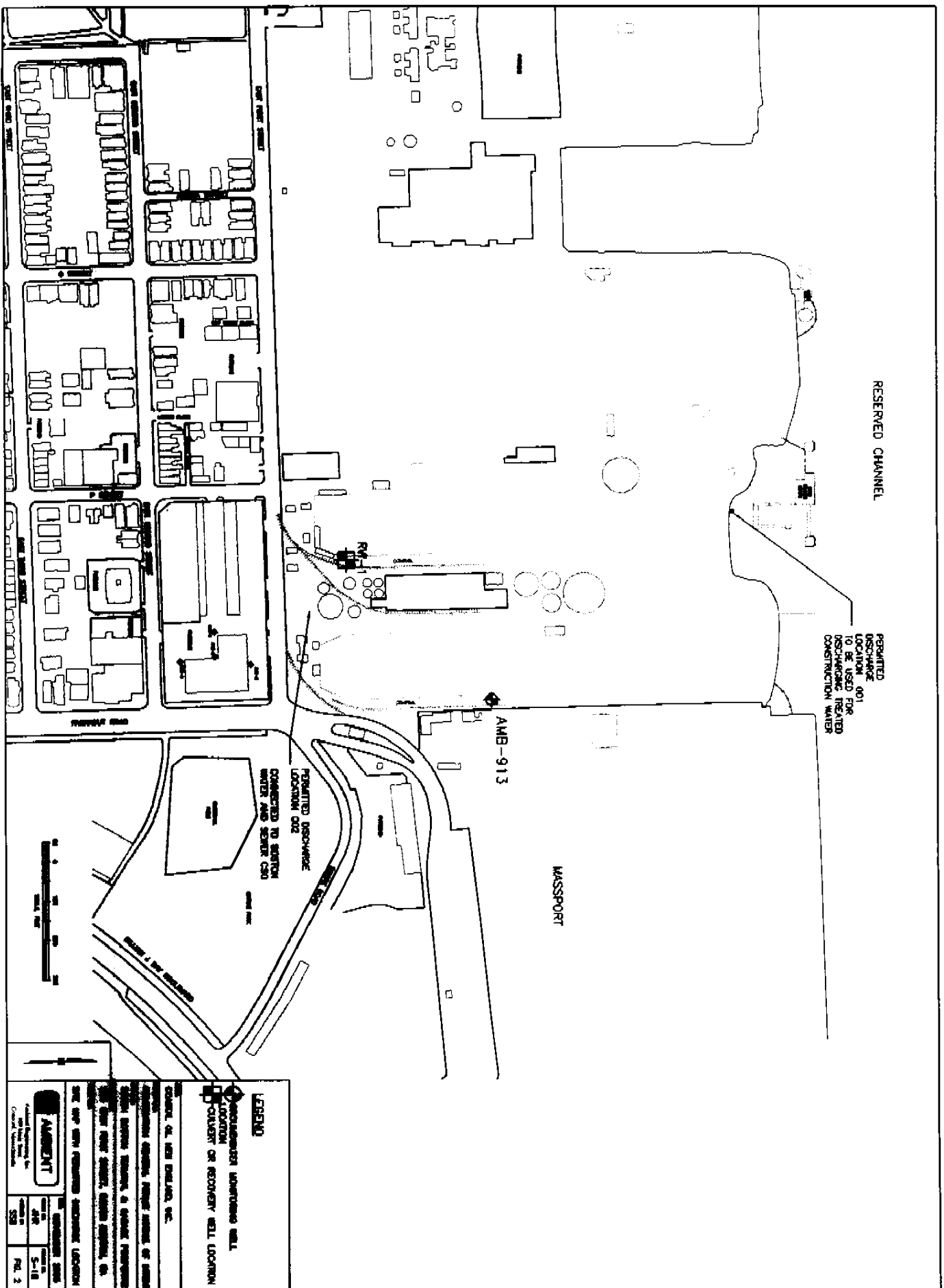
Date: 11/21/05

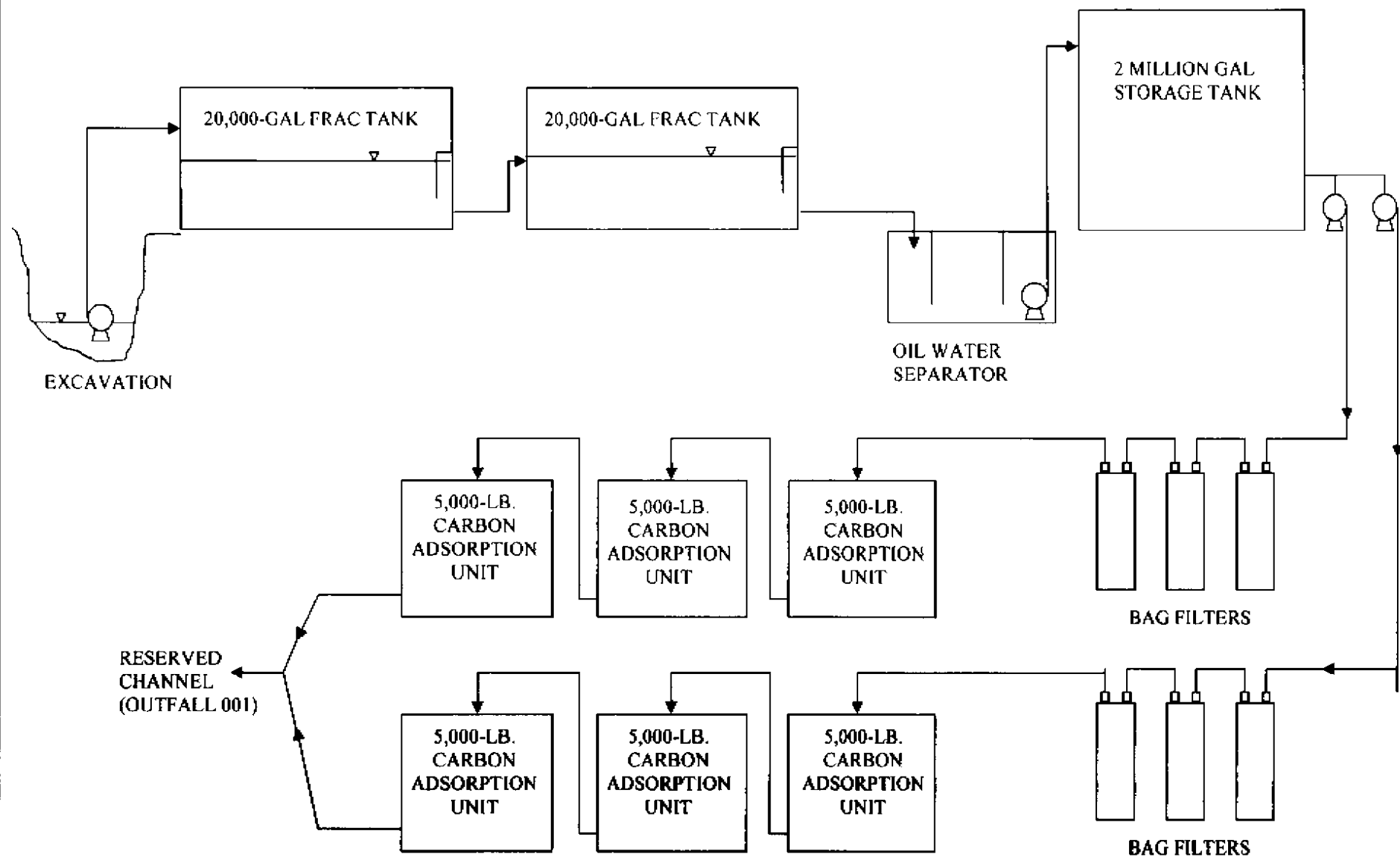


NOTES:

1. PLAN BASED ON USGS 7.5 x 15 MINUTE TOPOGRAPHIC MAP, SOUTH BOSTON QUADRANGLE, 1987.
2. DATUM IS NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.
3. CONTOUR INTERVAL IS 3 METERS.

CLIENT: COASTAL OIL NEW ENGLAND, INC.		FIGURE TITLE: SITE LOCUS	
PROJECT NAME: REMEDIAL GENERAL PERMIT		 AMBIENT Ambient Engineering, Inc. 85 Main Street Concord, Massachusetts	
SITE NAME: SOUTH BOSTON TERMINAL & GARAGE PROPERTIES			
SITE ADDRESS: 900 EAST FIRST STREET, SOUTH BOSTON, MA			
		DATE: NOVEMBER 2005	PROJECT NO. 5-18
		DRAWN BY: JHR	CHECKED BY: SSB
			FIG. 1





CLIENT:	EL PASO CORPORATION
PROJECT NAME:	REMEDIATION GENERAL PERMIT
SITE NAME:	COASTAL OIL OF NEW ENGLAND
SITE ADDRESS:	900 EAST FIRST ST., SOUTH BOSTON, MA

FIGURE TITLE:		PROCESS SCHEMATIC FOR TREATING DEWATERING WATER	
 Ambient Engineering, Inc. 100 Main Street Concord, Massachusetts		DATE:	NOVEMBER 2005
		DRAWN BY:	EBW
		CHECKED BY:	KP
		PROJECT NO:	5-18
		FIGURE NO:	3

(1) RESERVED CHANNEL DIMENSIONS TAKEN FROM
 "BOSTON HARBOR AND APPROACHES"
<http://chartmaker.ned.noaa.gov/nhd/cp1/cp1-2005-ch11.pdf>

NOTES:

USE DILUTION RANGE = > 100
 LIMIT FOR ZINC = 1,480 $\mu\text{g/l}$
 LIMIT FOR IRON = 5,000 $\mu\text{g/l}$

DILUTION FACTOR = 478 ASSUMING NO OTHER FLOW IN OR OUT.

$$\approx 1.377 \times 10^9 \text{ GAL.}$$

$$\text{VOLUME} = 1.841 \times 10^8 \text{ FT}^3 \times 7.48 \frac{\text{GAL}}{\text{FT}^3}$$

1 MILE LONG
 35 FT DEEP (AVERAGE)
 1600 FT WIDE

VOLUME OF WATER IN RESERVED CHANNEL (1)

$$\approx 2.88 \times 10^6 \text{ GALLONS}$$

$$\text{THEN, } V = 200 \text{ GAL} \times \frac{60 \text{ MIN}}{\text{HR}} \times \frac{24 \text{ HRS}}{\text{DAY}} \times 10 \text{ DAYS}$$

10 DAYS EXCAVATION
 24 HR OPERATION
 $Q_p = \text{DEWATERING FLOW} = 200 \text{ gal/min (GPM)}$

ASSUME (CONSERVATIVELY):

VOLUME OF TOTAL FLOW OF DEWATERING WATER:

DILUTION CALCULATION

AMBIENT ENGINEERING
 11/21/05
 Project 5-18
 BY: EBLW



11/18/05

Technical Report for

Ambient Engineering

Cone 900 E. First St., S. Boston, MA

D-AMBI-SOUTH-014

Accutest Job Number: M52245

Sampling Date: 11/02/05

Report to:

Ambient Engineering

eweitzler@ambient-engineering.com

ATTN: Ellen Weitzler

Total number of pages in report: 23



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Reza Fand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87570)
NY (23346) NJ (MA926) NAVY USACE

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Sample Summary

Ambient Engineering

Job No: **M52245**

Cone 900 E. First St., S. Boston, MA
Project No: D-AMBI-SOUTH-014

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M52245-1	11/02/05	12:30 SJB	11/02/05	AQ	Ground Water	RW-1 (TEENS AREA)
M52245-1A	11/02/05	12:30 SJB	11/02/05	AQ	Ground Water	RW-1 (TEENS AREA)
M52245-2	11/02/05	10:00 SJB	11/02/05	AQ	Ground Water	AMB-413 (20'S AREA)
M52245-2A	11/02/05	10:00 SJB	11/02/05	AQ	Ground Water	AMB-413 (20'S AREA)

Report of Analysis

Client Sample ID:	RW-1 (TEENS AREA)	Date Sampled:	11/02/05
Lab Sample ID:	M52245-1	Date Received:	11/02/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Cone 900 E. First St., S. Boston, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P3360.D	1	11/14/05	AMY	n/a	n/a	MSP113
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	0.78	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW-1 (TEENS AREA)

Lab Sample ID: M52245-1

Matrix: AQ - Ground Water

Method: SW846 8260B

Project: Cone 900 E. First St., S. Boston, MA

Date Sampled: 11/02/05

Date Received: 11/02/05

Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert Butyl Alcohol	ND	100	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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2.1
2

Client Sample ID:	RW-1 (TEENS AREA)	Date Sampled:	11/02/05
Lab Sample ID:	M52245-1	Date Received:	11/02/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Cone 900 E. First St., S. Boston, MA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		82-127%
2037-26-5	Toluene-D8	100%		88-112%
460-00-4	4-Bromofluorobenzene	97%		80-118%

ND = Not detected
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	RW-1 (TEENS AREA)	Date Sampled:	11/02/05
Lab Sample ID:	M52245-1	Date Received:	11/02/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Cone 900 E. First St., S. Boston, MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F17139.D	1	11/14/05	PN	11/07/05	OP9981	MSP914
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
88-75-5	2-Nitrophenol	ND	10	ug/l	
100-02-7	4-Nitrophenol	ND	20	ug/l	
87-86-5	Pentachlorophenol	ND	10	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
92-87-5	Benzidine	ND	20	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	10	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

2.1
2

Client Sample ID:	RW-1 (TEENS AREA)		Date Sampled:	11/02/05
Lab Sample ID:	M52245-1		Date Received:	11/02/05
Matrix:	AQ - Ground Water		Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C			
Project:	Cone 900 E. First St., S. Boston, MA			

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	10	ug/l	
117-84-0	Di-n-octyl phthalate	ND	10	ug/l	
84-66-2	Diethyl phthalate	ND	10	ug/l	
131-11-3	Dimethyl phthalate	ND	10	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	10	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
78-59-1	Isophorone	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		10-120%
4165-62-2	Phenol-d5	32%		10-120%
118-79-6	2,4,6-Tribromophenol	54%		31-123%
4165-60-0	Nitrobenzene-d5	90%		32-120%
321-60-8	2-Fluorobiphenyl	86%		32-120%
1718-51-0	Terphenyl-d14	74%		33-123%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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21
2

Client Sample ID: RW-1 (TEENS AREA)

Lab Sample ID: M52245-1

Date Sampled: 11/02/05

Matrix: AQ - Ground Water

Date Received: 11/02/05

Method: EPA 608 EPA 608

Percent Solids: n/a

Project: Cone 900 E. First St., S. Boston, MA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ29799.D	1	11/07/05	CZ	11/04/05	OP9973	GYZ1232
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.51	ug/l	
11104-28-2	Aroclor 1221	ND	0.51	ug/l	
11141-16-5	Aroclor 1232	ND	0.51	ug/l	
53469-21-9	Aroclor 1242	ND	0.51	ug/l	
12672-29-6	Aroclor 1248	ND	0.51	ug/l	
11097-69-1	Aroclor 1254	ND	0.51	ug/l	
11096-82-5	Aroclor 1260	ND	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		44-132%
877-09-8	Tetrachloro-m-xylene	83%		44-132%
2051-24-3	Decachlorobiphenyl	96%		12-151%
2051-24-3	Decachlorobiphenyl	98%		12-151%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

2.1
2

Client Sample ID:	RW-1 (TEENS AREA)	Date Sampled:	11/02/05
Lab Sample ID:	M52Z45-1	Date Received:	11/02/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Cone 900 E. First St., S. Boston, MA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Arsenic	29.3	5.0	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Cadmium	< 4.0	4.0	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Chromium	< 10	10	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Copper	< 25	25	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Iron	7880	100	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Lead	< 5.0	5.0	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Mercury	< 0.20	0.20	ug/l	1	11/07/05	11/08/05 LMN	EPA 245.1 ¹	EPA 245.1 ⁵
Nickel	< 40	40	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Selenium	< 10	10	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Silver	< 5.0	5.0	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Zinc	679	20	ug/l	1	11/04/05	11/14/05 AC	EPA 200.7 ³	EPA 200.7 ⁴

- (1) Instrument QC Batch: MA6431
 (2) Instrument QC Batch: MA6449
 (3) Instrument QC Batch: MA6452
 (4) Prep QC Batch: MP7876
 (5) Prep QC Batch: MP7880

 RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	RW-1 (TEENS AREA)	Date Sampled:	11/02/05
Lab Sample ID:	M52245-1	Date Received:	11/02/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Cone 900 E. First St., S. Boston, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	11/02/05 18:10	MA	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	11/04/05 11:50	MA	EPA 335.3
Oil And Grease, Gravimetric	< 4.1	4.1	mg/l	1	11/03/05	BF	EPA 1664
Solids, Total Suspended	< 4.0	4.0	mg/l	1	11/03/05	BF	EPA 160.2
Total Residual Chlorine	< 0.050	0.050	mg/l	1	11/02/05 17:40	MA	EPA 330.4

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: RW-1 (TEENS AREA)

Lab Sample ID: M52245-1A

Date Sampled: 11/02/05

Matrix: AQ - Ground Water

Date Received: 11/02/05

Method: SW846 8270C BY SIM SW846 3510C

Percent Solids: n/a

Project: Cone 900 E. First St., S. Boston, MA

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F17192.D	1	11/15/05	PN	11/08/05	OP9990	MSF915
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	2.4	0.10	ug/l	
208-96-8	Acenaphthylene	ND	0.10	ug/l	
120-12-7	Anthracene	ND	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	ug/l	
218-01-9	Chrysene	ND	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	ug/l	
206-44-0	Fluoranthene	ND	0.10	ug/l	
86-73-7	Fluorene	1.5	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	ug/l	
91-20-3	Naphthalene	1.1	0.10	ug/l	
85-01-8	Phenanthrene	ND	0.10	ug/l	
129-00-0	Pyrene	0.17	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		10-120%
4165-62-2	Phenol-d5	34%		10-120%
118-79-6	2,4,6-Tribromophenol	89%		23-135%
4165-60-0	Nitrobenzene-d5	73%		30-120%
321-60-8	2-Fluorobiphenyl	64%		25-120%
1718-51-0	Terphenyl-d14	84%		24-132%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID: AMB-413 (20'S AREA)

Lab Sample ID: M52245-2

Date Sampled: 11/02/05

Matrix: AQ - Ground Water

Date Received: 11/02/05

Method: SW846 8260B

Percent Solids: n/a

Project: Cone 900 E. First St., S. Boston, MA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P3361.D	1	11/14/05	AMY	n/a	n/a	MSP113
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	

ND = Not detected

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	AMB-413 (20' S AREA)	Date Sampled:	11/02/05
Lab Sample ID:	M52245-2	Date Received:	11/02/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Cone 900 E. First St., S. Boston, MA		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert Butyl Alcohol	ND	100	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

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Report of Analysis

Page 3 of 3

Client Sample ID:	AMB-413 (20'S AREA)	Date Sampled:	11/02/05
Lab Sample ID:	M52245-2	Date Received:	11/02/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Cone 900 E. First St., S. Boston, MA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		82-127%
2037-26-5	Toluene-D8	105%		88-112%
460-00-4	4-Bromofluorobenzene	99%		80-118%

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Report of Analysis

Page 1 of 2

Client Sample ID:	AMB-413 (20'S AREA)	Date Sampled:	11/02/05
Lab Sample ID:	M52245-2	Date Received:	11/02/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Cone 900 E. First St., S. Boston, MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	F17138.D	1	11/14/05	PN	11/07/05	OP9981	MSP914

Run #1	Initial Volume	Final Volume
Run #2	1000 ml	1.0 ml

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
88-75-5	2-Nitrophenol	ND	10	ug/l	
100-02-7	4-Nitrophenol	ND	20	ug/l	
87-86-5	Pentachlorophenol	ND	10	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
92-87-5	Benzidine	ND	20	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	10	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	ug/l	

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Report of Analysis

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2.3
2

Client Sample ID:	AMB-413 (20'S AREA)	Date Sampled:	11/02/05
Lab Sample ID:	M52245-2	Date Received:	11/02/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Cone 900 E. First St., S. Boston, MA		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	10	ug/l	
117-84-0	Di-n-octyl phthalate	ND	10	ug/l	
84-66-2	Diethyl phthalate	ND	10	ug/l	
131-11-3	Dimethyl phthalate	ND	10	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	10	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
78-59-1	Isophorone	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		10-120%
4165-62-2	Phenol-d5	19%		10-120%
118-79-6	2,4,6-Tribromophenol	61%		31-123%
4165-60-0	Nitrobenzene-d5	93%		32-120%
321-60-8	2-Fluorobiphenyl	92%		32-120%
1718-51-0	Terphenyl-d14	98%		33-123%

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Report of Analysis

Page 1 of 1

Client Sample ID: AMB-413 (20'S AREA)

Lab Sample ID: M52245-2

Date Sampled: 11/02/05

Matrix: AQ - Ground Water

Date Received: 11/02/05

Method: EPA 608 EPA 608

Percent Solids: n/a

Project: Cone 900 E. First St., S. Boston, MA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ29800.D	1	11/07/05	CZ	11/04/05	OP9973	GVZ1232
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.51	ug/l	
11104-28-2	Aroclor 1221	ND	0.51	ug/l	
11141-16-5	Aroclor 1232	ND	0.51	ug/l	
53469-21-9	Aroclor 1242	ND	0.51	ug/l	
12672-29-6	Aroclor 1248	ND	0.51	ug/l	
11097-69-1	Aroclor 1254	ND	0.51	ug/l	
11096-82-5	Aroclor 1260	ND	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		44-132%
877-09-8	Tetrachloro-m-xylene	97%		44-132%
2051-24-3	Decachlorobiphenyl	102%		12-151%
2051-24-3	Decachlorobiphenyl	104%		12-151%

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Report of Analysis

Page 1 of 1

Client Sample ID: AMB-413 (20' S AREA)

Lab Sample ID: M52245-2

Matrix: AQ - Ground Water

Date Sampled: 11/02/05

Date Received: 11/02/05

Percent Solids: n/a

Project: Cone 900 E. First St., S. Boston, MA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Arsenic	15.3	5.0	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Cadmium	< 4.0	4.0	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Chromium	< 10	10	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Copper	< 25	25	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Iron	10600	100	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Lead ^a	< 10	10	ug/l	2	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Mercury	< 0.20	0.20	ug/l	1	11/07/05	11/08/05 LMN	EPA 245.1 ¹	EPA 245.1 ⁵
Nickel	< 40	40	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Selenium	< 10	10	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Silver	< 5.0	5.0	ug/l	1	11/04/05	11/11/05 AC	EPA 200.7 ²	EPA 200.7 ⁴
Zinc	< 20	20	ug/l	1	11/04/05	11/14/05 AC	EPA 200.7 ³	EPA 200.7 ⁴

(1) Instrument QC Batch: MA6431

(2) Instrument QC Batch: MA6449

(3) Instrument QC Batch: MA6452

(4) Prep QC Batch: MP7876

(5) Prep QC Batch: MP7880

(a) Elevated RL due to dilution required for matrix interference.

RL = Reporting Limit

Report of Analysis

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2.3
2

Client Sample ID:	AMB-413 (20'S AREA)	Date Sampled:	11/02/05
Lab Sample ID:	M52245-2	Date Received:	11/02/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Cone 900 E. First St., S. Boston, MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	11/02/05 18:10	MA	SW846 7186A
Cyanide	< 0.010	0.010	mg/l	1	11/04/05 11:53	MA	EPA 335.3
Oil And Grease, Gravimetric	< 4.1	4.1	mg/l	1	11/03/05	BF	EPA 1664
Solids, Total Suspended	< 4.0	4.0	mg/l	1	11/03/05	BF	EPA 160.2
Total Residual Chlorine	< 0.050	0.050	mg/l	1	11/02/05 17:40	MA	EPA 330.4

RL = Reporting Limit

Report of Analysis

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2

Client Sample ID: AMB-413 (20'S AREA)

Lab Sample ID: M52245-2A

Date Sampled: 11/02/05

Matrix: AQ - Ground Water

Date Received: 11/02/05

Method: SW846 8270C BY SIM SW846 3510C

Percent Solids: n/a

Project: Cone 900 E. First St., S. Boston, MA

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	F17193.D	1	11/15/05	PN	11/08/05	OP9990	MSF915

Run #1	Initial Volume	Final Volume
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	0.10	ug/l	
208-96-8	Acenaphthylene	ND	0.10	ug/l	
120-12-7	Anthracene	ND	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	ug/l	
218-01-9	Chrysene	ND	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	ug/l	
206-44-0	Fluoranthene	ND	0.10	ug/l	
86-73-7	Fluorene	ND	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	ug/l	
91-20-3	Naphthalene	0.41	0.10	ug/l	
85-01-8	Phenanthrene	ND	0.10	ug/l	
129-00-0	Pyrene	ND	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		10-120%
4165-62-2	Phenol-d5	25%		10-120%
118-79-6	2,4,6-Tribromophenol	89%		23-135%
4165-60-0	Nitrobenzene-d5	75%		30-120%
321-60-8	2-Fluorobiphenyl	93%		25-120%
1718-51-0	Terphenyl-d14	109%		24-132%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

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Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

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ACQUEST

MS2245: Chain of Custody
Page 1 of 1

ACQUEST		LABORATORIES		CLIENT INFORMATION		FACILITY INFORMATION		ANALYTICAL INFORMATION		LABORATORY CODES	
NAME: Robert Engineering, Inc.		ADDRESS: 100 Main Street		CITY: Concord, MA 01742		STATE: MA ZIP: 01742		FAX: 978-369-8186		SEND REPORT TO: PHONE: 978-369-8186	
PROJECT NAME: Capital Hill New England		LOCATION: 900 East First Street		PROJECT NO: 0-AM-BI - South - 029		PROJECT NO: 0-AM-BI - South - 029		PROJECT NO: 0-AM-BI - South - 029		PROJECT NO: 0-AM-BI - South - 029	
DATE: 11/12/95		TIME: 1330		DATE: 11/12/95		TIME: 1330		DATE: 11/12/95		TIME: 1330	
COLLECTOR: [Signature]		ANALYST: [Signature]		DATE: 11/12/95		TIME: 1330		DATE: 11/12/95		TIME: 1330	
FIELD ID / POINT OF COLLECTION		DATE		TIME		ANALYST		DATE		TIME	
1 - RW-1 (Grass Area)		11/12/95		1330		[Signature]		11/12/95		1330	
2 - AMB-913 (Auto Area)		11/12/95		1330		[Signature]		11/12/95		1330	
SAMPLE #		DATE		TIME		ANALYST		DATE		TIME	
1		11/12/95		1330		[Signature]		11/12/95		1330	
2		11/12/95		1330		[Signature]		11/12/95		1330	
3		11/12/95		1330		[Signature]		11/12/95		1330	
4		11/12/95		1330		[Signature]		11/12/95		1330	
5		11/12/95		1330		[Signature]		11/12/95		1330	
6		11/12/95		1330		[Signature]		11/12/95		1330	
7		11/12/95		1330		[Signature]		11/12/95		1330	
8		11/12/95		1330		[Signature]		11/12/95		1330	
9		11/12/95		1330		[Signature]		11/12/95		1330	
10		11/12/95		1330		[Signature]		11/12/95		1330	
11		11/12/95		1330		[Signature]		11/12/95		1330	
12		11/12/95		1330		[Signature]		11/12/95		1330	
13		11/12/95		1330		[Signature]		11/12/95		1330	
14		11/12/95		1330		[Signature]		11/12/95		1330	
15		11/12/95		1330		[Signature]		11/12/95		1330	
16		11/12/95		1330		[Signature]		11/12/95		1330	
17		11/12/95		1330		[Signature]		11/12/95		1330	
18		11/12/95		1330		[Signature]		11/12/95		1330	
19		11/12/95		1330		[Signature]		11/12/95		1330	
20		11/12/95		1330		[Signature]		11/12/95		1330	
21		11/12/95		1330		[Signature]		11/12/95		1330	
22		11/12/95		1330		[Signature]		11/12/95		1330	
23		11/12/95		1330		[Signature]		11/12/95		1330	
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CHAIN OF CUSTODY

ACQUEST
LABORATORIES

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