



ENVIRONMENTAL MANAGEMENT PROFESSIONALS, INC.

94 Sawyer Lane
Marshfield, MA 02050
781-834-3822 • Fax 781-834-7110

MA 6910180

January 4, 2006

George Papadopoulos
US Environmental Protection Agency
Office of Ecosystem Protection
Mail Code CIP
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Re: NOTICE OF INTENT (NOI) FOR THE REMEDIATION GENERAL PERMIT
MASSACHUSETTS WATER RESOURCES AUTHORITY (MWRA) SPOT
POND SUPPLY MAIN CONTRACT # 6381 MEDFORD STREET IN
MALDEN, MA

Dear Mr. Papadopoulos,

On behalf of our client P. Gioioso & Sons, Inc. and the Massachusetts Water Resource Authority (MWRA), Environmental Management Professionals, Inc. (EMP) has prepared this Notice of intent (NOI) for the discharge at the above referenced location.

Should you need any additional information, please call me at 781-834-3822.

Sincerely,

Kevin P. Connors
Project Manager

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

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

a) Name of facility/site: Massachusetts Water Resources Authority (MWRA) Spot Pond Supply Main Contract # 6381		Facility/site address: Section 6: Access Pit Station 426+71	
Location of facility/site: longitude: 71 4 latitude: 42 2	Facility SIC code(s): Medford Street		
b) Name of facility/site owner: Massachusetts Water Resources Authority		Town: Malden	
Email address of owner: yt.chen@mwra.state.ma.us	State: MA	Zip:	County: Middlesex
Telephone no. of facility/site owner: (617) 788-4921		Owner is (check one): 1. Federal _____ 2. State/Tribal ☒ 3. Private _____ 4. other, if so, describe: _____	
Fax no. of facility/site owner: (617) 788-4894			
Address of owner (if different from site):			
Street: Charlestown Navy Yard, 100 First Avenue, Bldg. 39-2			
Town: Boston	State: MA	Zip: 02129	County: Suffolk
c) Legal name of operator: P. Gioioso & Sons, Inc.		Operator telephone no: (617) 364-5800	
		Operator fax no.: (617) 364-9462	Operator email: joeb@gioioso.com
Operator contact name and title: Joseph Bettencourt, Project Manager			

Address of operator (if different from owner):		Street: 50 Sprague Street	
Town: Hyde Park	State: MA	Zip: 02136	County: Suffolk

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

- Has a prior NPDES permit exclusion been granted for the discharge? Yes No if "yes," number:
- Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes No if "yes," date and tracking #:
- 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: 3-25540
- permit or license # assigned:
- state agency contact information: name, location, and telephone number: MADEP-Northeast Region 978-694-3200

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: MAG070000
- individual NPDES permit? Y N if Y, number:
- any other water quality related permit? Y N if Y, number:

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

a) Describe the discharge activities for which the owner/applicant is seeking coverage:	
Construction Dewatering during rehabilitation of a 48 inch cast iron supply main	
b) Provide the following information about each discharge:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow <u>.056</u> Average flow <u> </u> Is maximum flow a design value? Y <u> </u> N <u> </u> For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.
1) Number of discharge points:	1
3) Latitude and longitude of each discharge within 100 feet: pt.1: long. <u>71° 45' 21"</u> lat. <u>42° 55' 54"</u> pt.2: long. <u> </u> lat. <u> </u>; pt.3: long. <u> </u> lat. <u> </u>; pt.4: long. <u> </u> lat. <u> </u>; pt.5: long. <u> </u> lat. <u> </u>; pt.6: long. <u> </u> lat. <u> </u>; pt.7: long. <u> </u> lat. <u> </u>; pt.8: long. <u> </u> lat. <u> </u>; etc.	

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent ☒ or seasonal ☐ ? Is discharge ongoing Yes ☒ No ☐ ?
c) Expected dates of discharge (mm/dd/yy): start 01/06/06 end 03/31/06	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

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

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

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

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 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		✓	1	Grab	E160-2	4. mg/l	840 mg/L			
2. Total Residual Chlorine	✓		1	Grab	SM4500-Cl-φ	.05 mg/L	ND			
3. Total Petroleum Hydrocarbons		✓	1	Grab	8100M	2.06 mg	35.3 mg/L			
4. Cyanide	✓		1	Grab	E335.2	.05 mg/L	ND			
5. Benzene	✓		1	Grab	SW8260B	5 ug/l	ND			
6. Toluene	✓		1	Grab	SW8260B	5 ug/l	ND			
7. Ethylbenzene	✓		1	Grab	SW8260B	5 ug/l	ND			
8. (m,p,o) Xylenes	✓		1	Grab	SW8260B	5 ug/l	ND			
9. Total BTEX ⁴	✓		1	Grab	SW8260B	5 ug/l	ND			

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

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)
10. Ethylene Dibromide (1,2-Dibromo-methane)	✓		1	Grab	SW82603	1 ug/l	ND			
11. Methyl-tert-Butyl Ether (MtBE)	✓		1	Grab	SW82603	5 ug/l	ND			
12. tert-Butyl Alcohol (TBA)										
13. tert-Amyl Methyl Ether (TAME)										
14. Naphthalene	✓		1	Grab	SW82603	20 ug/l	ND			
15. Carbon Tetra-chloride	✓		1	Grab	SW82603	5 ug/l	ND			
16. 1,4 Dichlorobenzene	✓		1	Grab	SW82603	5 ug/l	ND			
17. 1,2 Dichlorobenzene	✓		1	Grab	SW82603	5 ug/l	ND			
18. 1,3 Dichlorobenzene	✓		1	Grab	SW82603	5 ug/l	ND			
19. 1,1 Dichloroethane	✓		1	Grab	SW82603	5 ug/l	ND			
20. 1,2 Dichloroethane	✓		1	Grab	SW82603	5 ug/l	ND			
21. 1,1 Dichloroethylene										
22. cis-1,2 Dichloro-ethylene										
23. Dichloromethane (Methylene Chloride)	✓		1	Grab	SW82603	10 ug/l	ND			
24. Tetrachloroethylene										

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	✓		1	Grab	SW826003	2 ug/l	ND			
26. 1,1,2 Trichloroethane	✓		1	Grab	SW826003	5 ug/l	ND			
27. Trichloroethylene										
28. Vinyl Chloride	✓		1	Grab	SW826003	2 ug/l	ND			
29. Acetone	✓		1	Grab	SW826003	50 ug/l	ND			
30. 1,4 Dioxane										
31. Total Phenols	✓		1	Grab	SW827000	.25 ug/l	ND			
32. Pentachlorophenol										
33. Total Phthalates ⁵ (Phthalate esters)	✓		1	Grab	SW827000	.75 ug/l	ND			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1	Grab	SW827000	2 ug/l	ND			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)										
a. Benzo(a) Anthracene		✓	1	Grab	SW827000	.5 ug/l	4.88			
b. Benzo(a) Pyrene		✓	1	Grab	SW827000	.2 ug/l	2.82			
c. Benzo(b) Fluoranthene		✓	1	Grab	SW827000	.5 ug/l	3.34			
d. Benzo(k) Fluoranthene		✓	1	Grab	SW827000	1 ug/l	2.43			
e. Chrysene		✓	1	Grab	SW827000	.5 ug/l	5.61			

⁵The 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	✓		1	Grab	SW8270C	.5 ug/l	ND			
g. Indeno(1,2,3-cd)Pyrene		✓	1	Grab	SW8270C	.5 ug/l	1.83			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)										
h. Acenaphthene		✓	1	Grab	SW8270C	.5 ug/l	22.7			
i. Acenaphthylene	✓		1	Grab	SW8270C	.25 ug/l	ND			
j. Anthracene		✓	1	Grab	SW8270C	.5 ug/l	6.97			
k. Benzo(ghi) Perylene		✓	1	Grab	SW8270C	1 ug/l	2.31			
l. Fluoranthene		✓	1	Grab	SW8270C	.5 ug/l	24.9			
m. Fluorene		✓	1	Grab	SW8270C	.5 ug/l	27.6			
n. Naphthalene-	✓		1	Grab	SW8270C	.75 ug/l	ND			
o. Phenanthrene		✓	1	Grab	SW8270C	.5 ug/l	73.7			
p. Pyrene		✓	1	Grab	SW8270C	1.25 ug/L	20.2			
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	Grab	SW808A	.311 ug/l	ND			
38. Antimony	✓		1	Grab	E200.7	.03 mg/l	ND			
39. Arsenic	✓		1	Grab	E200.7	.05 mg/l	ND			
40. Cadmium	✓		1	Grab	E200.7	.005 mg/l	ND			
41. Chromium III	✓		1	Grab	E200.7	.06 mg/l	ND			
42. Chromium VI	✓		1	Grab	M3500PCD	.05 mg/l	ND			

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	✓		1	Grab	E200.7	.008 mg/l	ND			
44. Lead		✓	1	Grab	E200.7	.015 mg/l	81.8			
45. Mercury	✓		1	Grab	E245.7	.001 mg/l	ND			
46. Nickel		✓	1	Grab	E200.7	.01 mg/l	34.1			
47. Selenium	✓		1	Grab	E200.7	.05 mg/l	ND			
48. Silver		✓	1	Grab	200.7	.0007 mg/L	7.9			
49. Zinc	✓		1	Grab	E200.7	.1 mg/l	ND			
50. Iron		✓	1	Grab	E200.7	.6 mg/l	77600			
Other (describe):										

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? Ag, Fe, Ni, Pb
<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: _____ DF: _____	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: _____

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:

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 _____ Maximum flow rate of treatment system 25 Design flow rate of treatment system 25

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

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

a) Identify the discharge pathway:	Direct _____	Within facility _____	Storm drain ☒ _____	River/brook _____	Wetlands _____	Other (describe):
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b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

Discharge water is pumped into a catch basin on Medford Street, (71 Degrees 4' 21" Latitude by 42 Degrees 25' 5" Longitude). The Catch Basin feeds into a storm drain line that feeds directly into the Malden River

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 B

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? Yes _____ No _____ If yes, for which pollutant(s)? _____

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

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

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes _____ No ☒
 Has any consultation with the federal services been completed? No ☒ or is consultation underway? Yes ☒ No ☒
 What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (~~check~~ one):
 a "no jeopardy" opinion? _____ or written concurrence _____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

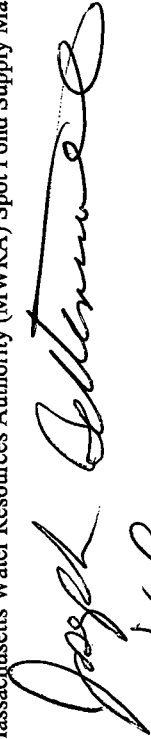
b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
 Yes ☒ No _____ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes ☒ No ☒

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: Massachusetts Water Resources Authority (MWRA) Spot Pond Supply Main Contract # 6381

Operator signature:



V.P.

Title:

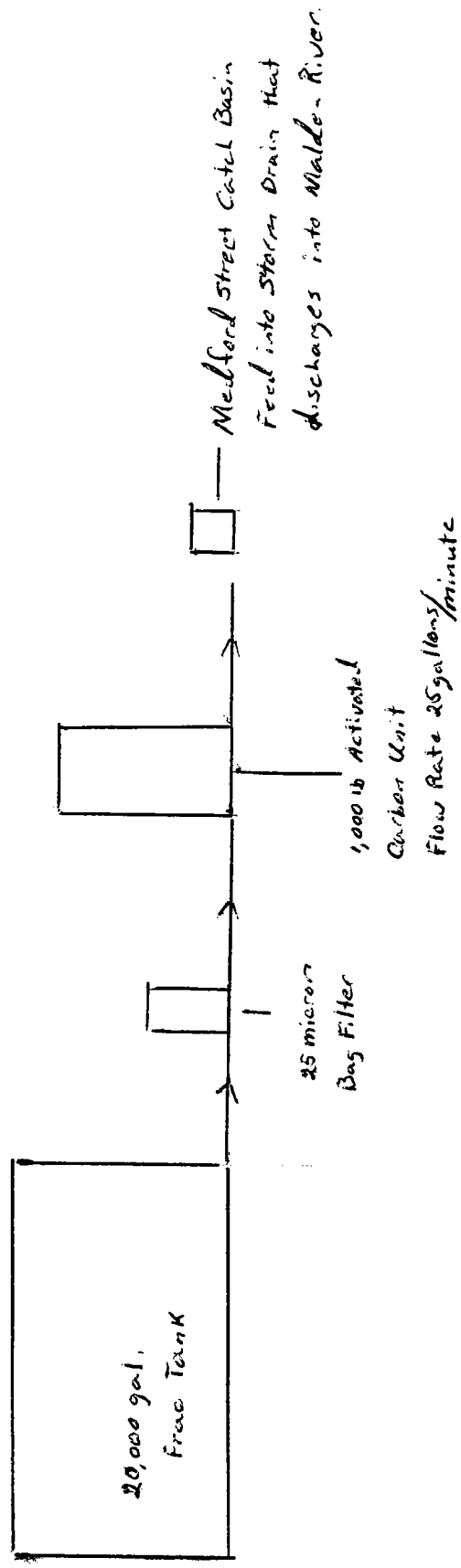
Date:

1/4/06

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.

MWRH Spot Pond Supply Main Contract #6381
Discharge Water Treatment Diagram





RIZZO
ASSOCIATES



Source MassGIS Scanned Image
USGS Quadrangle: Boston North, MA

East and West Spot Pond Supply Mains Rehabilitation Project Malden, Medford and Somerville, Massachusetts

Construction Dewatering Outfall Location Plan - Contract 2

Figure
1B

FAXED
12/30/05



Friday, December 30, 2005

Ted Patch
EMP, Inc.
94 Sawyer Lane
Marshfield, MA 02050

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (781) 834-3822
FAX: (781) 834-7110

Project: 263, Medford St
Location: Malden - Spot Pond

Order No.: 0512302

Dear Ted Patch:

GeoLabs, Inc. received 1 sample(s) on 12/21/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Jim Chen
Laboratory Director

CLIENT: EMP, Inc.
Project: 263, Medford St
Lab Order: 0512302

CASE NARRATIVE**MADEP MCP Response Action Analytical Report Certification Form**

Laboratory Name: GeoLabs, Inc. **Project #**
Project Location: **MADEP RTN #:**

This form provides certification for the following data set:

Sample Matrix:

MCP SW-846 Methods Used:

An affirmative answer to questions A, B and C are required for "Presumptive Certainty" status

A. Were all samples received by the laboratory in a condition consistent with that described on the Chain of custody documentation for the data set? YES

B. Were all QA/QC procedures required for the specified method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate standards or guidelines? YES

C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty" as described in Section 2.0 of the MADEP documents CAM VII A "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES

A response to questions D and E are required for "Presumptive Certainty" status

D. Were all QC performance standards and recommendations for the specified methods achieved? YES

E. Were results for all analyte-list compounds/elements for the specified method(s) reported? YES

All NO answers need to be addressed in an attached Environmental Laboratory case narrative.

CASE NARRATIVE**Physical Condition of Samples**

The project was received by the laboratory in satisfactory condition. The sample(s) were received undamaged, in appropriate containers with the correct preservation.

CLIENT: EMP, Inc.
Project: 263, Medford St
Lab Order: 0512302

CASE NARRATIVE

Project Documentation

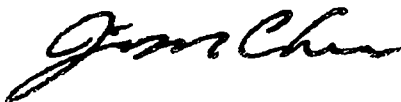
The project was accompanied by satisfactory Chain of Custody documentation.

Analysis of Sample(s)

No analytical anomalies or non-conformances were noted by the laboratory during the processing of these samples.

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

Signature:



Position: Lab Director

Printed Name: Jim Chen

Date:

GeoLabs, Inc.

Date: 30-Dec-05

CLIENT: EMP, Inc.
Project: 263, Medford St

Lab Order: 0512302

Lab ID: 0512302-001
Client Sample NPDES-1

Collection 12/21/2005 10:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS						
Total Suspended Solids	840	E160.2 4.00		mg/L	1	Analyst: AMS 12/22/2005
TOTAL PETROLEUM HYDROCARBONS						
Total Petroleum Hydrocarbons	35.3	8100M 2.06		mg/L	10	Analyst: KH 12/22/2005
Surr: o-terphenyl	97.4	40-140		%REC	10	12/22/2005
POLYCHLORINATED BIPHENYLS						
		SW8062		(SW3510B)		Analyst: GP
Aroclor 1221	ND	0.311		µg/L	1	12/22/2005
Aroclor 1232	ND	0.311		µg/L	1	12/22/2005
Aroclor 1248	ND	0.311		µg/L	1	12/22/2005
Aroclor 1254	ND	0.311		µg/L	1	12/22/2005
Aroclor 1260	ND	0.311		µg/L	1	12/22/2005
Aroclor 1262	ND	0.311		µg/L	1	12/22/2005
Aroclor 1268	ND	0.311		µg/L	1	12/22/2005
Surr: Decachlorobiphenyl Sig 1	58.0	30-150		%REC	1	12/22/2005
Surr: Decachlorobiphenyl Sig 2	46.0	30-150		%REC	1	12/22/2005
Surr: Tetrachloro-m-xylene Sig 1	76.0	30-150		%REC	1	12/22/2005
Surr: Tetrachloro-m-xylene Sig 2	100	30-150		%REC	1	12/22/2005
ICP METALS						
		E200.7		(SW3010A)		Analyst: RP
Antimony	ND	0.0300		mg/L	1	12/27/2005
Arsenic	ND	0.0500		mg/L	1	12/27/2005
Cadmium	ND	0.00500		mg/L	1	12/27/2005
Chromium	ND	0.0600		mg/L	1	12/27/2005
Copper	ND	0.00800		mg/L	1	12/27/2005
Iron	77.6	0.600		mg/L	10	12/27/2005
Lead	0.0816	0.0150		mg/L	1	12/27/2005
Nickel	0.0341	0.0100		mg/L	1	12/27/2005
Selenium	ND	0.0500		mg/L	1	12/27/2005
Zinc	ND	0.100		mg/L	1	12/27/2005
SILVER						
Silver	0.00790	200.7 0.00700		(SW3010A) mg/L	1	Analyst: RP 12/27/2005
TOTAL MERCURY						
Mercury	ND	E245.1 0.0010		(SW7470A/E245.1) mg/L	1	Analyst: EN 12/27/2005

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

Date: 30-Dec-05

CLIENT: EMP, Inc.
Project: 263, Medford St

Lab Order: 0512302

SEMIVOLATILE ORGANICS

SW8270C

Date: (6W3510)

Analyst: ZYZ

ID:

1,2,4-Trichlorobenzene	ND	0.750	µg/L	1	12/23/2005 8:58:00 AM
1,2-Dichlorobenzene	ND	1.00	µg/L	1	12/23/2005 8:58:00 AM
1,2-Dinitrobenzene	ND	5.00	µg/L	1	12/23/2005 8:58:00 AM
1,3-Dichlorobenzene	ND	1.00	µg/L	1	12/23/2005 8:58:00 AM
1,3-Dinitrobenzene	ND	0.750	µg/L	1	12/23/2005 8:58:00 AM
1,4-Dichlorobenzene	7.62	1.00	µg/L	1	12/23/2005 8:58:00 AM
1,4-Dinitrobenzene	ND	5.00	µg/L	1	12/23/2005 8:58:00 AM
2,3,4,6-Tetrachlorophenol	ND	1.00	µg/L	1	12/23/2005 8:58:00 AM
2,4,5-Trichlorophenol	ND	0.750	µg/L	1	12/23/2005 8:58:00 AM
2,4,6-Trichlorophenol	ND	0.500	µg/L	1	12/23/2005 8:58:00 AM
2,4-Dichlorophenol	ND	0.500	µg/L	1	12/23/2005 8:58:00 AM
2,4-Dimethylphenol	ND	3.75	µg/L	1	12/23/2005 8:58:00 AM
2,4-Dinitrophenol	ND	0.250	µg/L	1	12/23/2005 8:58:00 AM
2,4-Dinitrotoluene	ND	0.500	µg/L	1	12/23/2005 8:58:00 AM
2,6-Dinitrotoluene	ND	0.250	µg/L	1	12/23/2005 8:58:00 AM
2-Chloronaphthalene	ND	0.500	µg/L	1	12/23/2005 8:58:00 AM
2-Chlorophenol	ND	0.500	µg/L	1	12/23/2005 8:58:00 AM
2-Methylnaphthalene	48.3	0.750	µg/L	1	12/23/2005 8:58:00 AM
2-Methylphenol	ND	1.00	µg/L	1	12/23/2005 8:58:00 AM
2-Nitroaniline	ND	0.750	µg/L	1	12/23/2005 8:58:00 AM
2-Nitrophenol	ND	0.500	µg/L	1	12/23/2005 8:58:00 AM
3,3'-Dichlorobenzidine	ND	2.50	µg/L	1	12/23/2005 8:58:00 AM
3-Methylphenol/4-methylphenol	ND	1.50	µg/L	1	12/23/2005 8:58:00 AM
3-Nitroaniline	ND	1.50	µg/L	1	12/23/2005 8:58:00 AM
4,6-Dinitro-2-methylphenol	ND	1.00	µg/L	1	12/23/2005 8:58:00 AM
4-Bromophenyl phenyl ether	ND	0.750	µg/L	1	12/23/2005 8:58:00 AM
4-Chloro-3-methylphenol	ND	0.500	µg/L	1	12/23/2005 8:58:00 AM
4-Chloroaniline	ND	2.50	µg/L	1	12/23/2005 8:58:00 AM
4-Chlorophenyl phenyl ether	ND	0.500	µg/L	1	12/23/2005 8:58:00 AM
4-Nitroaniline	ND	1.00	µg/L	1	12/23/2005 8:58:00 AM
4-Nitrophenol	ND	0.500	µg/L	1	12/23/2005 8:58:00 AM
Acenaphthene	22.7	0.500	µg/L	1	12/23/2005 8:58:00 AM
Acenaphthylene	ND	0.250	µg/L	1	12/23/2005 8:58:00 AM
Acetophenone	ND	0.750	µg/L	1	12/23/2005 8:58:00 AM
Aniline	ND	2.25	µg/L	1	12/23/2005 8:58:00 AM
Anthracene	6.97	0.500	µg/L	1	12/23/2005 8:58:00 AM
Azobenzene	ND	5.00	µg/L	1	12/23/2005 8:58:00 AM
Benz(a)anthracene	4.88	0.500	µg/L	1	12/23/2005 8:58:00 AM
Benzo(a)pyrene	2.82	0.200	µg/L	1	12/23/2005 8:58:00 AM
Benzo(b)fluoranthene	3.38	0.500	µg/L	1	12/23/2005 8:58:00 AM
Benzo(g,h,i)perylene	2.31	1.00	µg/L	1	12/23/2005 8:58:00 AM
Benzo(k)fluoranthene	2.43	1.00	µg/L	1	12/23/2005 8:58:00 AM
Benzyl alcohol	ND	1.00	µg/L	1	12/23/2005 8:58:00 AM
Bis(2-chloroethoxy)methane	ND	0.500	µg/L	1	12/23/2005 8:58:00 AM

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ND Not Detected at the Reporting Limit

GeoLabs, Inc.

Date: 30-Dec-05

CLIENT: EMP, Inc.
Project: 263, Medford St

Lab Order: 0512302

SEMIVOLATILE ORGANICS

		SW8270C	(SW3510)	Analyst: ZYZ
Bis(2-chloroethyl)ether	ND	0.500	µg/L 1	12/23/2005 8:58:00 AM
Bis(2-chloroisopropyl)ether	ND	0.750	µg/L 1	12/23/2005 8:58:00 AM
Bis(2-ethylhexyl)phthalate	ND	2.00	µg/L 1	12/23/2005 8:58:00 AM
Butyl benzyl phthalate	ND	1.25	µg/L 1	12/23/2005 8:58:00 AM
Carbazole	ND	0.750	µg/L 1	12/23/2005 8:58:00 AM
Chrysene	5.61	0.500	µg/L 1	12/23/2005 8:58:00 AM
Dibenz(a,h)anthracene	ND	0.500	µg/L 1	12/23/2005 8:58:00 AM
Dibenzofuran	23.0	0.500	µg/L 1	12/23/2005 8:58:00 AM
Diethyl phthalate	ND	1.25	µg/L 1	12/23/2005 8:58:00 AM
Dimethyl phthalate	ND	1.75	µg/L 1	12/23/2005 8:58:00 AM
Di-n-butyl phthalate	ND	0.750	µg/L 1	12/23/2005 8:58:00 AM
Di-n-octyl phthalate	ND	2.00	µg/L 1	12/23/2005 8:58:00 AM
Fluoranthene	24.9	0.500	µg/L 1	12/23/2005 8:58:00 AM
Fluorene	27.6	0.500	µg/L 1	12/23/2005 8:58:00 AM
Hexachlorobenzene	ND	1.00	µg/L 1	12/23/2005 8:58:00 AM
Hexachlorobutadiene	ND	0.500	µg/L 1	12/23/2005 8:58:00 AM
Hexachlorocyclopentadiene	ND	10.0	µg/L 1	12/23/2005 8:58:00 AM
Hexachloroethane	ND	2.00	µg/L 1	12/23/2005 8:58:00 AM
Indeno(1,2,3-cd)pyrene	1.83	0.500	µg/L 1	12/23/2005 8:58:00 AM
Isophorone	ND	0.500	µg/L 1	12/23/2005 8:58:00 AM
Naphthalene	ND	0.750	µg/L 1	12/23/2005 8:58:00 AM
Nitrobenzene	ND	0.750	µg/L 1	12/23/2005 8:58:00 AM
N-Nitrosodimethylamine	ND	1.00	µg/L 1	12/23/2005 8:58:00 AM
N-Nitrosodi-n-propylamine	ND	1.00	µg/L 1	12/23/2005 8:58:00 AM
N-Nitrosodiphenylamine	ND	5.00	µg/L 1	12/23/2005 8:58:00 AM
Pentachlorophenol	ND	1.00	µg/L 1	12/23/2005 8:58:00 AM
Phenanthrene	73.7	0.500	µg/L 1	12/23/2005 8:58:00 AM
Phenol	ND	0.250	µg/L 1	12/23/2005 8:58:00 AM
Pyrene	20.2	1.25	µg/L 1	12/23/2005 8:58:00 AM
Pyridine	ND	1.25	µg/L 1	12/23/2005 8:58:00 AM
Surr: 2,4,6-Tribromophenol	69.8	15-150	%REC 1	12/23/2005 8:58:00 AM
Surr: 2-Fluorobiphenyl	58.7	30-130	%REC 1	12/23/2005 8:58:00 AM
Surr: 2-Fluorophenol	34.8	15-110	%REC 1	12/23/2005 8:58:00 AM
Surr: Nitrobenzene-d5	32.6	30-130	%REC 1	12/23/2005 8:58:00 AM
Surr: Phenol-d6	25.1	15-110	%REC 1	12/23/2005 8:58:00 AM
Surr: Terphenyl-d14	42.7	30-130	%REC 1	12/23/2005 8:58:00 AM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

		SW8260B		Analyst: MR
1,1,1,2-Tetrachloroethane	ND	2.00	µg/L 1	12/22/2005 8:28:00 PM
1,1,1-Trichloroethane	ND	5.00	µg/L 1	12/22/2005 8:28:00 PM
1,1,2,2-Tetrachloroethane	ND	0.610	µg/L 1	12/22/2005 8:28:00 PM
1,1,2-Trichloroethane	ND	5.00	µg/L 1	12/22/2005 8:28:00 PM
1,1-Dichloroethane	ND	5.00	µg/L 1	12/22/2005 8:28:00 PM
1,1-Dichloroethene	ND	0.980	µg/L 1	12/22/2005 8:28:00 PM

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ND Not Detected at the Reporting Limit

GeoLabs, Inc.

Date: 30-Dec-05

CLIENT: EMP, Inc.
Project: 263, Medford St

Lab Order: 0512302

VOLATILE ORGANIC COMPOUNDS BY GC/MS

SW8260B

Analyst: MR

1,1-Dichloropropene	ND	0.400	µg/L	1	12/22/2005 8:28:00 PM
1,2,3-Trichlorobenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
1,2,3-Trichloropropane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
1,2,4-Trichlorobenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
1,2,4-Trimethylbenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
1,2-Dibromo-3-chloropropane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
1,2-Dibromoethane	ND	1.00	µg/L	1	12/22/2005 8:28:00 PM
1,2-Dichlorobenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
1,2-Dichloroethane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
1,2-Dichloropropane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
1,3,5-Trimethylbenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
1,3-Dichlorobenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
1,3-Dichloropropane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
1,4-Dichlorobenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
2,2-Dichloropropane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
2-Butanone	ND	10.0	µg/L	1	12/22/2005 8:28:00 PM
2-Chloroethyl vinyl ether	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
2-Chlorotoluene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
2-Hexanone	ND	10.0	µg/L	1	12/22/2005 8:28:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
4-Methyl-2-pentanone	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Acetone	ND	50.0	µg/L	1	12/22/2005 8:28:00 PM
Acrylonitrile	ND	50.0	µg/L	1	12/22/2005 8:28:00 PM
Benzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Bromobenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Bromochloromethane	ND	2.00	µg/L	1	12/22/2005 8:28:00 PM
Bromodichloromethane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Bromoforn	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Bromomethane	ND	2.00	µg/L	1	12/22/2005 8:28:00 PM
Carbon tetrachloride -	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Chlorobenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Chloroethane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Chloroform	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Chloromethane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
cis-1,3-Dichloropropene	ND	0.650	µg/L	1	12/22/2005 8:28:00 PM
Dibromochloromethane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Dibromomethane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Ethylbenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	12/22/2005 8:28:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Methyl tert-butyl ether	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Methylene chloride	ND	10.0	µg/L	1	12/22/2005 8:28:00 PM

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ND Not Detected at the Reporting Limit

GeoLabs, Inc.

Date: 30-Dec-05

CLIENT: EMP, Inc.
Project: 263, Medford St**Lab Order:** 0512302**VOLATILE ORGANIC COMPOUNDS BY GC/MS****SW8260B****Analyst:** MR

Naphthalene	ND	20.0	µg/L	1	12/22/2005 8:28:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
p-Isopropyltoluene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Styrene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Toluene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
trans-1,3-Dichloropropene	ND	0.050	µg/L	1	12/22/2005 8:28:00 PM
Trichloroethene	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Vinyl chloride	ND	2.00	µg/L	1	12/22/2005 8:28:00 PM
Xylenes, Total	ND	5.00	µg/L	1	12/22/2005 8:28:00 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%REC	1	12/22/2005 8:28:00 PM
Surr: 4-Bromofluorobenzene	99.2	70-130	%REC	1	12/22/2005 8:28:00 PM
Surr: Dibromofluoromethane	103	70-130	%REC	1	12/22/2005 8:28:00 PM
Surr: Toluene-d8	98.6	70-130	%REC	1	12/22/2005 8:28:00 PM

HEXAVALENT CHROMIUM**M3500-Cr D****Analyst:** SUB

Chromium, Hexavalent	ND	0.0500	mg/L	1	12/21/2005
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CYANIDE, TOTAL**E335.2****Analyst:** RP

Cyanide, Total	ND	0.020	mg/L	1	12/30/2005
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TOTAL RESIDUAL CHLORINE**SM 4500-Cl-G****Analyst:** SUB

Total Residual Chlorine	ND	0.0500	mg/L	1	12/20/2005
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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Geolabs CHAIN NUMBER: 0512302

Fax: 781-848-7811

ANALYSES REQUESTED	
24	30

O = O OT = Other	Past due balances subject to interest and collection costs.	Samuel Lee
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