Environmental Strategies & Management

184 West Main Street, Norton, MA 02766 ◆ Tel: (508) 285-9700 ◆ Fax: (508) 285-9957

MA6 910300

April 23, 2007

United States Environmental Protection Agency
RGP-NOC Processing
Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Subject: **Remediation General Permit Notice of Intent**
Former Oil Depot
50 Sturgis Street
Woburn, MA
MassDEP RTN 3-0475

To Whom It May Concern:

On behalf of the City of Woburn, Environmental Strategies and Management, Inc. (ES&M) is submitting a Notice of Intent for a Remediation General Permit (RGP) for the remediation system located at 50 Sturgis Street in Woburn, MA (the Site).

This RGP would cover discharge from a groundwater extraction and treatment system, designed to remediate petroleum impacted soil and groundwater resulting from historical usage of the location as a former oil depot. Currently the property is being used as a community park, and open space. Groundwater on the property discharges into a Class B surface water body, Horn Pond.

The proposed remediation system is designed to extract contaminated groundwater, and filter it through an oil water separator, bag-type solids filtration unit, and two granulated activated carbon (GAC) units. Treated water from the system will be discharged into a storm drain, which empties into Horn Pond. A Notice of Intent (form) for the RGP with drawings of the proposed system location and design, and analytical information is attached.

Please call us at 508-285-9700 if you have any questions or require additional information.

Sincerely,
Environmental Strategies & Management, Inc.

Joseph L. Callahan, LSP, CHMM
Project Manager

Copy: Massachusetts Department of Environmental Protection NERO
Mr. John Fralick, City of Woburn Board of Health

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**: Former Oil Depot		**Facility/site** address:		
Location of **facility/site**: longitude: W71°9'36" latitude: N42°28'24"	Facility SIC code(s): 8422 (NAIC code 712190)	Street: 50 Sturgis Street		
b) Name of **facility/site owner:** City of Woburn		Town: Woburn		
Email address of owner: jfralick@city of Woburn.com		State: MA	Zip: 01801	County: Middlesex
Telephone no.of facility/site **owner**: (781) 932-4407				
Fax no. of facility/site **owner**: (781) 932-4455		**Owner** is (check one): 1. Federal____ 2. State/Tribal____ 3. Private_____ 4. other, if so, describe: Municipal		
Address of **owner** (if different from site):				
Street: 10 Common Street				
Town: Woburn	State: MA	Zip: 01801	County: Middlesex	
c) Legal name of **operator**: Environmental Strategies and Management (contractor)	**Operator** telephone no: (508) 285-9700			
	Operator fax no.: (508) 285-9957	**Operator** email: jcallahan@esm-inc.com		
Operator contact name and title: Joseph L Callahan, Project Manager				

Address of **operator** (if different from owner):	Street: 184 West Main Street		
Town: Norton	State: MA	Zip: 02766	County: Bristol

d) Check "yes" or "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No✔, if "yes," number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No✔, if "yes," date and tracking #:
3. Is the discharge a "new discharge"as defined by 40 CFR 122.2? Yes✔ No___
4. 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: 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 storm water general permit? Y___ N✔, if Y, number: 2. phase I or II construction storm water general permit? Y___ N✔, if Y, number: 3. individual NPDES permit? Y___ N✔, if Y, number: 4. 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:
Discharge of treated effluent water from an MCP related groundwater extraction and treatment system.

b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)? Max. flow 0.07 Average flow 0.06 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.W71°9'36" lat.N42°28'24"; 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 04/30/07 end 04/30/12	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

See Attached

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 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)
1. Total Suspended Solids		✓	2	grab	EPA 160.2	20,000 ug/L	1,900,000		1,028,000	
2. Total Residual Chlorine	✓		1	grab	8167	20 ug/L				
3. Total Petroleum Hydrocarbons		✓	1	grab	3510C	4,000 ug/L	95,000		95,000	
4. Cyanide	✓		1	grab	335.2	20	< 20		< 20	
5. Benzene	✓		1	grab	8260B	2	< 2		< 2	
6. Toluene	✓		1	grab	8260B	2	< 2		< 2	
7. Ethylbenzene	✓		1	grab	8260B	2	< 2		< 2	
8. (m,p,o) Xylenes	✓		1	grab	8260B	2	< 2		< 2	
9. Total BTEX[4]	✓		1	grab	8260B	—	—		—	

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

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)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✓		1	grab	8260B	2	<2		<2	
11. Methyl-tert-Butyl Ether (MtBE)	✓		1	grab	8260B	2	<2		<2	
12. tert-Butyl Alcohol (TBA)	✓		1	grab	8260B	40	<40		<40	
13. tert-Amyl Methyl Ether (TAME)	✓		1	grab	8260B	2	<2		<2	
14. Naphthalene		✓	1	grab	8260B	5	<5		<5	
15. Carbon Tetra-chloride	✓		1	grab	8260B	2	<2		<2	
16. 1,4 Dichlorobenzene	✓		1	grab	8260B	2	<2		<2	
17. 1,2 Dichlorobenzene	✓		1	grab	8260B	2	<2		<2	
18. 1,3 Dichlorobenzene	✓		1	grab	8260B	2	<2		<2	
19. 1,1 Dichloroethane	✓		1	grab	8260B	2	<2		<2	
20. 1,2 Dichloroethane	✓		1	grab	8260B	2	<2		<2	
21. 1,1 Dichloroethylene	✓		1	grab	8260B	1	<1		<1	
22. cis-1,2 Dichloro-ethylene	✓		1	grab	8260B	2	<2		<2	
23. Dichloromethane (Methylene Chloride)	✓		1	grab	8260B	10	<10		<10	
24. Tetrachloroethylene	✓		1	grab	8260B	2	<2		<2	

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)
25. 1,1,1 Trichloroethane	✓		1	grab	8260 B	2	<2		<2	
26. 1,1,2 Trichloroethane	✓		1	grab	8260 B	2	<2		<2	
27. Trichloroethylene	✓		1	grab	8260 B	2	<2		<2	
28. Vinyl Chloride	✓		1	grab	8260 B	2	<2		<2	
29. Acetone	✓		1	grab	8260 B	10	<10		<10	
30. 1,4 Dioxane	✓		1	grab	8260 B	50	<50		<50	
31. Total Phenols	✓		1	grab	8270 C	—	—		—	
32. Pentachlorophenol	✓		1	grab	8270 C	10	<10		<10	
33. Total Phthalates [5] (Phthalate esthers)	✓		1	grab	8270 C	—	—		—	
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1	grab	8270 C	5	<5		<5	
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	grab	8270 C	—	—		—	
a. Benzo(a) Anthracene	✓		1	grab	8270 C	0.5	<0.5		<0.5	
b. Benzo(a) Pyrene	✓		1	grab	8270 C	0.2	<0.2		<0.2	
c. Benzo(b)Fluoranthene	✓		1	grab	8270 C	0.5	<0.5		<0.5	
d. Benzo(k) Fluoranthene	✓		1	grab	8270 C	0.5	<0.5		<0.5	
e. Chrysene	✓		1	grab	8270 C	0.5	<0.5		<0.5	

[5] The sum of individual phthalate compounds.

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		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		1	grab	8270C	0.5	<0.5		<0.5	
g. Indeno(1,2,3-cd) Pyrene	✓		1	grab	8270C	0.5	<0.5		<0.5	
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓			grab	8270C	—	—		—	
h. Acenaphthene	✓		1	grab	8270C	0.5	<0.5		<0.5	
i. Acenaphthylene	✓		1	grab	8270C	0.5	<0.5		<0.5	
j. Anthracene		✓	2	grab	8270C	0.5	0.6		0.6	
k. Benzo(ghi) Perylene	✓		1	grab	8270C	0.5	<0.5		<0.5	
l. Fluoranthene	✓		1	grab	8270C	0.5	<0.5		<0.5	
m. Fluorene		✓	2	grab	8270C	0.5 ug/L	16		9	
n. Naphthalene-		✓	1	grab	8270C	0.5	<0.5		<0.5	
o. Phenanthrene		✓	2	grab	8270C	0.5 ug/L	16		7	
p. Pyrene	✓		1	grab	8270C	0.5	<0.5		<0.5	
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	grab	8082A	0.3	<0.3		<0.3	
38. Antimony		✓	1	grab	6010B	6 ug/L	7		7	
39. Arsenic		✓	2	grab	6010B	10 ug/L	80		45	
40. Cadmium	✓		1	grab	6010B	5	<5		<5	
41. Chromium III		✓	1	grab	6010B	50 ug/L	80		80	
42. Chromium VI	✓		1	grab	3500CrD	10	<10		<10	

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)
43. Copper		✓	2	grab	6010 B	50	190		108	
44. Lead		✓	2	grab	6010 B	10	310		210	
45. Mercury	✓		1	grab	7470A	0.9	<0.9		<0.9	
46. Nickel	✓		1	grab	6010 B	50	<50		<50	
47. Selenium	✓		1	grab	6010 B	50	<50		<50	
48. Silver	✓		1	grab	6010 B	7	< 7		< 7	
49. Zinc		✓	2	grab	6010 B	50	920		585	
50. Iron		✓	2	grab	6010 B	50 ug/L	59000		32150	
Other (describe):										

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

Step 1: 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? Antimony, Arsenic, Chromium III, Copper, Lead, Zinc, and Iron
Step 2: 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? Copper Metals: Antimony, Arsenic, Chromium III, Lead, Zinc, and Iron DF: 7.57	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: Copper, Lead, Zinc, and Iron

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

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

Recovery of contamintated groundwater from 7-10 pumping wells to a treatement system consisting of oil/water separation, filtration, and granulated activated carbon prior to discharge.

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 25 Maximum flow rate of treatment system 30 Design flow rate of treatment system 30

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

Not Applicable

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):

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

Effluent from the treatment system will be discharged into a stormdrain that connects to Horn Pond

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: Attached
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 Class B,

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 0.46 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations. see page 20

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ✔ No___ If yes, for which pollutant(s)?
Nutrients, Organic Enrichment, Notious Aquatic Plants

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.

Seven Day/Ten Year Flow Calculation

The nearest gauge station that is in continuous operation is located on the Aberjona River, a major discharge for Horn Pond. The 7Q10 flow at this station is 0.46 cubic feet per second.

(0.07+0.46) divided by 0.07 equates to a dilution factor of 7.57 for Horn Pond (where 0.07= maximum flow in cfs from treatment system).

There are two upstream gauge stations, which had 7Q10 flows of 0.17 and 0.20, but these gauge points were operated over a finite period of time, and only represent 2 of the 3 waterways that feed into Horn Pond.

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.

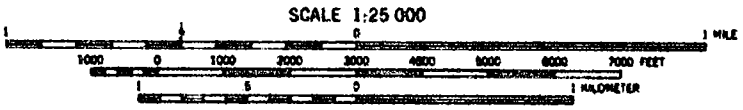
Facility/Site Name: Former Oil Depot

Operator signature:

Title: Project Manager

Date: 04/20/07

SOURCE: U.S.G.S.7.5 x 15 MINUTE
TOPOGRAPHIC QUADRANGLE
BOSTON NORTH, MASS. (1985)
SITE COORDINATES:
LAT: 42° 28' 21" N
LON: 71° 09' 34" W



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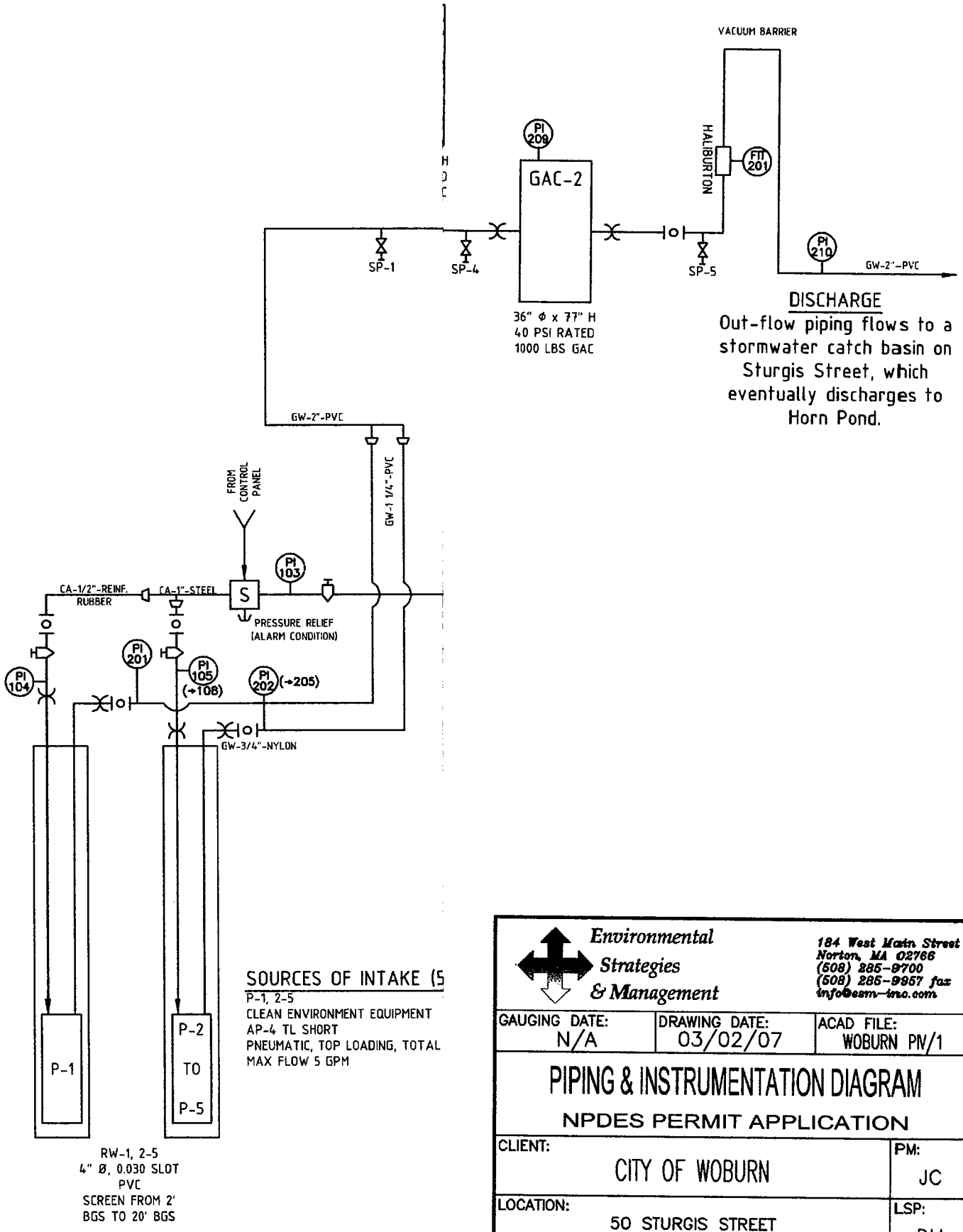
184 West Main Street
Norton, MA 02766
(508) 285-9700
(508) 285-9907 fax
info@esm-inc.com

GAUGING DATE:	DRAWING DATE:	ACAD FILE:
NA	03/25/04	WOBURN2/SLM

SITE LOCUS MAP

CLIENT:			PM:
CITY OF WOBURN			DH
LOCATION: 50 STURGIS STREET WOBURN, MA			LSP: JC
DESIGNED:	DWG:	PROJECT NO.:	FIGURE:
–	AF	2003-225	1



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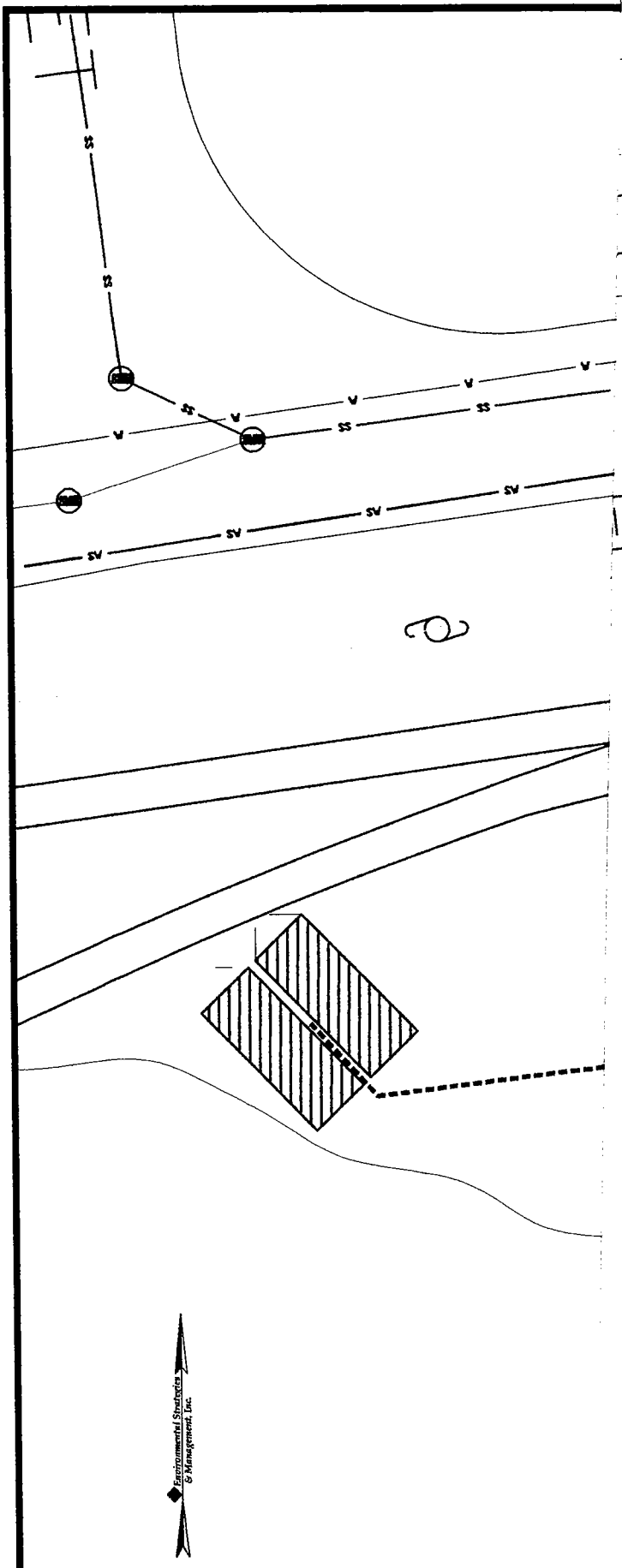
(508) 285-9957 fax
info@esm-inc.com

GAUGING DATE:	DRAWING DATE:	ACAD FILE:
N/A	03/02/07	WOBURN PIV1

PIPING & INSTRUMENTATION DIAGRAM

NPDES PERMIT APPLICATION

CLIENT:			PM:
CITY OF WOBURN			JC
LOCATION: 50 STURGIS STREET WOBURN, MA			LSP: DH
RTN: 3-0475	DWG: AF	PROJECT NO.: 2007-017	FIGURE: 1



ESM-1 GROUNDWATER MONITORING WELL

B1/GP1 GROUNDWATER MICROWELL

B2 SOIL BORING LOCATION

SED-1 SEDIMENT SAMPLE LOCATION

SW-1 SURFACE WATER SAMPLE LOCATION

RECOVERY WELL LOCATION

PROPOSED TREATMENT SYSTEM BUILDING

PROPOSED TREATMENT SYSTEM PIPING

APPROXIMATE WATER LINE

APPROXIMATE TREE LINE

W DRINKING WATER

SS SANITARY SEWER

SV STORMWATER PIPES

NOTE: Base Map created using Town of Woburn Tax Map 58

0 20 40

SCALE FEET

Environmental Strategies & Management

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Norton, MA 02766
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(508) 285-9957 fax
info@esm-inc.com

GAUGING DATE:	DRAWING DATE:	ACAD FILE:
N/A	03/23/07	WOBURN/NPDES

SITE MAP

NPDES PERMIT APPLICATION

CLIENT:			PM:
CITY OF WOBURN			JC
LOCATION: 50 STURGIS STREET WOBURN, MA			LSP: DH
RTN: 3-0475	DWG: AF	PROJECT NO.: 2006-071	FIGURE: 2

Environmental Strategies & Management, Inc.

RL Resource Laboratories, LLC

Laboratory Report

Joe Callahan
Environmental Strategies & Management
184 West Main Street
Norton, MA 02766

PO Number: None
LabID: 11781
Date Received: 2/6/07

Project: 2007-017 Woburn Monitoring

Attached please find results for the analysis of the samples received on the date referenced above.

pH was analyzed beyond the recommended holding time per customer request.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

Susan Sylvester
Principal, General Manager

2-21-07
Date

Total number of pages 8

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

124 Heritage Avenue #10 Portsmouth NH 03801
Voice: 603-436-2001 Fax: 603-430-2100
www.reslabs.com

Project ID: Woburn Monitoring 2007-017
Lab ID: 11781

Lab Number: 11781-001
Sample ID: GP-2
Matrix: Water

Received on ice at 3°C, in satisfactory condition.

Sampled: 2/1/07 12:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
diethyl ether	< 10	10	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
acetone	< 10	10	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
t-butanol (TBA)	< 40	40	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
bromodichloromethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B

Project ID: Woburn Monitoring 2007-017
Lab ID: 11781

Lab Number: 11781-001
Sample ID: GP-2
Matrix: Water

Received on ice at 3°C, in satisfactory condition.

Sampled: 2/1/07 12:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Date	Analysis Time	Reference
dibromochloromethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
isopropylbenzene	**15**	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
n-propylbenzene	**19**	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,2,4-trimethylbenzene	**56**	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
sec-butylbenzene	**15**	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
n-butylbenzene	**9**	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
hexachlorobutadiene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		2/7/07	12:16	SW5030B8260B
Surrogate Recovery		**Limits**							
dibromofluoromethane SUR	101	78-114	%	1	LMM		2/7/07	12:16	SW5030B8260B
toluene-D8 SUR	98	88-110	%	1	LMM		2/7/07	12:16	SW5030B8260B
4-bromofluorobenzene SUR	98	86-115	%	1	LMM		2/7/07	12:16	SW5030B8260B

RL Resource Laboratories, LLC

Lab Number:	11781-01
Sample Designation:	GP-2
Date Sampled:	2/1/07
Date Extracted:	2/8/07
Date Analyzed:	2/13/07
Matrix:	Water
Dilution Factor:	20
Analyst:	JLZ

TOTAL PETROLEUM HYDROCARBONS
SW 846 3510C/8100 modified

	Concentration ug/L	Quantitation Limit ug/L
TPH	95000	4000

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
2-fluorobiphenyl	#	40-140
o-terphenyl	83	40-140

# = The surrogate could not be distinguished from the hydrocarbons present in the chromatogram.
U = Below quantitation limit

RL Resource Laboratories, LLC

Lab Number:	11781-01
Sample Designation:	GP-2
Date Sampled:	2/1/07
Date Extracted:	2/8/07
Date Analyzed:	2/15/07
Matrix:	Water
Dilution Factor:	10
Analyst:	AJD

SEMIVOLATILE ORGANICS
SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L
naphthalene	U	5
2-methylnaphthalene	130	5
acenaphthylene	U	5
acenaphthene	U	5
dibenzofuran	11	5
fluorene	16	5
phenanthrene	10	5
anthracene	U	5
fluoranthene	U	5
pyrene	U	5
benzo(a)anthracene	U	5
chrysene	U	5
benzo(b)fluoranthene	U	5
benzo(k)fluoranthene	U	5
benzo(a)pyrene	U	2
indeno(1,2,3-cd)pyrene	U	5
dibenzo(a,h)anthracene	U	5
benzo(g,h,i)perylene	U	5

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
2-fluorobiphenyl	82	43-116
o-terphenyl	91	33-141

U = Below quantitation limit

Lab Number:	11781-01
Sample Designation:	GP-2
Date Sampled:	2/1/07
Date Extracted:	2/7/07
Date Analyzed:	2/8/07
Matrix:	Water
Dilution Factor:	1
Analyst:	AJD

POLYCHLORINATED BIPHENYLS
SW 846 Method 3510C/8082A.

	Concentration ug/L	Quantitation Limit ug/L
PCB-1016	U	0.3
PCB-1242	U	0.3
PCB-1221	U	0.3
PCB-1232	U	0.3
PCB-1248	U	0.3
PCB-1254	U	0.3
PCB-1260	U	0.3

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)
Tetrachloro-m-xylene	36	30-150
Decachlorobiphenyl	69	30-150

U = Below quantitation limit

Project ID: Woburn Monitoring 2007-017
Lab ID: 11781

Lab Number: 11781-001
Sample ID: GP-2
Matrix: Water
Sampled: 2/1/07 12:00

Parameter:	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Date	Analysis Time	Reference
Antimony	**0.007**	0.006	mg/L	1	BJS	2/12/07	2/13/07	15:02	SW3005A6010B
Arsenic	**0.08**	0.01	mg/L	1	BJS	2/12/07	2/13/07	15:02	SW3005A6010B
Beryllium	< 0.004	0.004	mg/L	1	BJS	2/12/07	2/13/07	15:02	SW3005A6010B
Cadmium	< 0.005	0.005	mg/L	1	BJS	2/12/07	2/13/07	15:02	SW3005A6010B
Chromium	**0.08**	0.05	mg/L	1	BJS	2/12/07	2/13/07	15:02	SW3005A6010B
Copper	**0.19**	0.05	mg/L	1	BJS	2/12/07	2/13/07	15:02	SW3005A6010B
Iron	**59**	0.05	mg/L	1	BJS	2/12/07	2/13/07	15:02	SW3005A6010B
Lead	**0.31**	0.01	mg/L	1	BJS	2/12/07	2/13/07	15:02	SW3005A6010B
Mercury	< 0.0009	0.0009	mg/L	1	BJS	2/15/07	2/15/07		SW7470A
Nickel	< 0.05	0.05	mg/L	1	BJS	2/12/07	2/13/07	15:02	SW3005A6010B
Selenium	< 0.05	0.05	mg/L	1	BJS	2/12/07	2/13/07	15:02	SW3005A6010B
Silver	< 0.007	0.007	mg/L	1	BJS	2/12/07	2/13/07	15:02	SW3005A6010B
Thallium	< 0.004	0.004	mg/L	1	BJS	2/12/07	2/12/07	15:04	SW3005A6010B
Zinc	**0.92**	0.05	mg/L	1	BJS	2/12/07	2/13/07	15:02	SW3005A6010B

Lab Number: 11781-001
Sample ID: GP-2
Matrix: Water
Sampled: 2/1/07 12:00

Parameter:	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Date	Analysis Time	Reference
pH	**6.23**		pH		JLZ		2/6/07	18:09	E150.1
Cyanide, total	< 0.02	0.02	mg/L	1	APA	2/7/07	2/7/07		E335.2
Total Suspended Solids (TSS)	**1900**	20	mg/L	1	APA		2/7/07		E160.2

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

11781

Company Name: ES+M
Phone #: (508) 285-9700
FAX #: (508) 285-9957
Company Address: 184 West Main Street
Site Location (City, State): 50 Sturgis St Woburn, MA
Project Manager: Joe Callahan
Project ID / Name: 2007-017 Woburn Monitoring
Invoice To:
Protocol: RCRA SDWA (NPDES) MCP NHDES OTHER

ANALYSIS REQUEST

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation Method: HCl	Preservation Method: HNO_3	Preservation Method: H_2SO_4	Preservation Method: NaOH	Preservation Method: MeOH	Preservation Method: OTHER (Specify) Cool	Sampling: DATE	Sampling: TIME	Sampling: SAMPLER	☐ VOC 8260-NH List ☐ MADEP VPH ☐ MEGRO	☒ VOC 8260C ☐ VOC8015GRO ☐ VOC 624	☐ VOC 8260 BTEX, MIBE, Naphthalene only	☐ VOC 524.2 ☐ VOC 524.2 NH List	☐ TPH Fingerprint ☐ MEDRO ☐ DRO 8015 ☐ EPH TPH 8100	☐ 8270PAH/C ☐ 8270APN ☐ 625	☒ 8082 PCB ☐ 8081 Pesticides ☐ 608	☐ O&G 1664 ☐ O&G SM5520F	☒ pH ☐ BOD ☐ Conductivity	☒ TSS ☐ TDS ☐ TS	☐ RCRA Metals ☒ Priority Pollutant Metals ☐ TAL Metals Iron	☐ Total Metals-list ☐ Dissolved Metals-list	☐ Ammonia ☐ COD	☐ T-Phosphate ☐ Phenol	☒ Cyanide ☐ Sulfide	☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☐ Chloride	☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP	☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC	☐ TCLP Pesticide ☐ TCLP Herbicides (subcontract)	☐ Standard Drinking Water Test ☐ Bacteria P/A	Total Residual Chlorine			Grab (G) or Composite (C)
11781-01	GP-2	13	X			3	1	2	1		6	2/1/07	12:00	AP		X			X	X	X		X	X	X				X						X			

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☐
10 Business Days ☒
Other ☐

E-Mail Address jcallahan@esm-inc.com
Quote # 5567
PO #

SPECIAL INSTRUCTIONS Quote # 5567

REPORTING INSTRUCTIONS
☐ FAX ☐ OTHER (specify)
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 3 °C

Lab Use Only

CUSTODY RECORD

Relinquished by Sampler:	Date	Time	Received by:	Date	Time
Angela Biggieri	2/1/07	16:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory Way Bill#: [signature]	2-6	12:40

RL Resource Laboratories, LLC

Laboratory Report

Joe Callahan
Environmental Strategies & Management
184 West Main Street
Norton, MA 02766

PO Number: None
LabID: 12146
Date Received: 4/16/07

Project: Woburn RGP

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Resource Laboratories, LLC

Susan Sylvester
Principal, General Manager

4-18-07
Date

Total number of pages 4

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

124 Heritage Avenue #10 Portsmouth NH 03801
Voice: 603-436-2001 Fax: 603-430-2100
www.reslabs.com

Lab Number:	12146-01
Sample Designation:	RW-1
Date Sampled:	4/16/07
Date Extracted:	4/17/07
Date Analyzed:	4/17/07
Matrix:	Water
Dilution Factor:	1
Analyst:	AJD

SEMIVOLATILE ORGANICS

SW 846 Method 3510C/8270C.

	Concentration ug/L	Quantitation Limit ug/L		Concentration ug/L	Quantitation Limit ug/L
N-nitrosodimethylamine	U	2	2,4-dinitrotoluene	U	2
aniline	U	2	acenaphthene	U	0.5
phenol	U	2	3-nitroaniline	U	2
2-chlorophenol	U	5	2,4-dinitrophenol	U	50
bis-(2-chloroethyl)ether	U	2	dibenzofuran	1.5	0.5
1,3-dichlorobenzene	U	2	4-nitrophenol	U	20
1,4-dichlorobenzene	U	2	fluorene	2.5	0.5
1,2-dichlorobenzene	U	2	diethyl phthalate	U	5
benzyl alcohol	U	2	4-chlorophenyl phenyl ether	U	5
2-methylphenol (o-cresol)	U	2	4-nitroaniline	U	5
bis(2-chloroisopropyl)ether	U	2	4,6-dinitro-2-methylphenol	U	20
hexachloroethane	U	2	azobenzene	U	2
N-nitroso-di-n-propylamine	U	2	N-nitrosodiphenylamine	U	2
4-methylphenol (p-cresol)	U	2	4-bromophenyl phenylether	U	2
nitrobenzene	U	2	hexachlorobenzene	U	2
isophorone	U	5	pentachlorophenol	U	10
2-nitrophenol	U	2	phenanthrene	4.5	0.5
2,4-dimethylphenol	U	2	anthracene	0.6	0.5
bis(2-chloroethoxy)methane	U	5	carbazole	U	2
2,4-dichlorophenol	U	5	di-n-butyl phthalate	U	5
1,2,4-trichlorobenzene	U	5	fluoranthene	U	0.5
naphthalene	3.2	0.5	benzidine	U	30
benzoic acid	U	50	pyrene	U	0.5
4-chloroaniline	U	2	butyl benzyl phthalate	U	5
hexachloro-1,3-butadiene	U	2	benzo(a)anthracene	U	0.5
4-chloro-3-methylphenol	U	2	chrysene	U	0.5
2-methylnaphthalene	31	2	3,3'-dichlorobenzidine	U	30
hexachlorocyclopentadiene	U	10	bis-2-ethylhexyl phthalate	U	5
2,4,6-trichlorophenol	U	2	di-n-octyl phthalate	U	2
2,4,5-trichlorophenol	U	2	benzo(b)fluoranthene	U	0.5
2-chloronaphthalene	U	5	benzo(k)fluoranthene	U	0.5
2-nitroaniline	U	2	benzo(a)pyrene	U	0.2
acenaphthylene	U	0.5	indeno(1,2,3-cd)pyrene	U	0.5
dimethyl phthalate	U	5	dibenz(a,h)anthracene	U	0.5
2,6-dinitrotoluene	U	2	benzo(g,h,i)perylene	U	0.5

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits (%)		Recovery (%)	Acceptance Limits (%)
2-fluorophenol	21	21-100	nitrobenzene D5	41	35-114
phenol D5	15	10-102	2-fluorobiphenyl	37 #	43-116
2,4,6-tribromophenol	82	10-123	terphenyl D14	55	33-141

Note: The percent recovery for phenol in the laboratory control sample was below the acceptance criteria. This compound is known to be problematic and is more likely to show recovery outside the QC limits.

= This surrogate showed recovery outside the acceptance limits as a result of co-eluting hydrocarbons.

U = Below quantitation limit

Project ID: Woburn RGP
Lab ID: 12146

Lab Number: 12146-001
Sample ID: RW-1
Matrix: Water
Sampled: 4/16/07 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	< 0.01	0.01	mg/L	1	BJS	4/17/07	419	4/17/07	14:24	SW3005A601
Copper	< 0.05	0.05	mg/L	1	BJS	4/17/07	419	4/17/07	14:24	SW3005A601
Iron	**5.3**	0.05	mg/L	1	BJS	4/17/07	419	4/17/07	14:24	SW3005A601
Lead	**0.11**	0.01	mg/L	1	BJS	4/17/07	419	4/17/07	14:24	SW3005A601
Zinc	**0.25**	0.05	mg/L	1	BJS	4/17/07	419	4/17/07	14:24	SW3005A601

Lab Number: 12146-001
Sample ID: RW-1
Matrix: Water
Sampled: 4/16/07 13:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Chromium, Hexavalent	< 0.01	0.01	mg/L	1	APA	4/18/07	70098	4/18/07		SM3500CrD
Total Suspended Solids (TSS)	**140**	20	mg/L	1	APA		70097	4/17/07		E160.2

PAGE ____ OF ____

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 12146

Company Name: ES&H
Phone #: 508-285-9700
FAX #: 508-285-9957
Company Address: 184 W. Main St. Norton MA
Report To: Joe Callahan
Project Info: NH (MA) ME VT — Woburn RGP
Invoice To: ES&H
Protocol: RCRA SDWA NPDES MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation: HCl	Preservation: HNO_3	Preservation: H_2SO_4	Preservation: NaOH	Preservation: MeOH	Preservation: OTHER (Specify)	Sampling: DATE	Sampling: TIME	SAMPLER*
1214601	RW-1	4	X									4/16/07	1350	an

ANALYSIS REQUEST

Analysis	RW-1
☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP	
☐ VOC 624 ☐ VOC BTEX ☐ MTBE, only	
☐ VPH MADEP ☐ MEGRO ☐ GRO	
☐ VOC 524.2 ☐ VOC 524.2 NH List	
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint	
☐ 8270PAH ☑ 8270ABN ☐ 625 w/ Phenols	X
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB	
☐ O&G 1664 ☐ Mineral O&G SM5520F	
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity	
☑ TSS ☐ TDS ☐ TS 160.2	X
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals	
☐ Total Metals-list ☐ Dissolved Metals-list	
☐ Ammonia ☐ COD ☐ TKN	
☐ T-Phosphorus ☐ Phenol	
☐ Cyanide ☐ Sulfide	
☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☐ Chloride	
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP	
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC	
☐ TCLP Pesticide ☐ TCLP Herbicides (subcontract)	
☐ Standard Drinking Water Test ☐ Bacteria P/A	
Fe, As, Cu, Pb, Zn by 6010B	X
~~Total Res. dual Chlorine~~ 330.5	X
Cr VI by 7196A	X
Grab (G) or Composite (C)	

(Field) DK 4/16/07

TAT REQUESTED
Priority (24 hr) ☐
Expedited (48 hr) ☑
10 Business Days ☐
Date Needed ______

* See www.reslabs.com for sample acceptance policy.

E-Mail Address ______
Quote # ______
PO # ______

SPECIAL INSTRUCTIONS
48HR TAT

REPORTING INSTRUCTIONS
☑ FAX ☐ OTHER (specify) ______
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 2 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: [signature]	4/16/07	3:15	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by Laboratory: [signature] Way Bill#:	4/16/07	3:15