GEOSPHERE
ENVIRONMENTAL MANAGEMENT INC.

April 27, 2009

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

RE: Remediation General Permit (RGP) Application
Temporary Groundwater Pump and Treat System
Village Street and Main Street, Medway, Massachusetts

Dear Ms. Puleo:

Geosphere Environmental Management, Inc. (GEOSPHERE), operator, on behalf of the Town of Medway, Massachusetts, owner of the above referenced facility (the site), is pleased to present the accompanying documentation as application for the *Remedial General Permit* (RGP) at a Contaminated Construction Dewatering Site. This RGP application is in relation to a temporary groundwater pump and treat system to be installed on site and utilized for a maximum of seven (7) days. The expected dates of treatment are from May 4, 2009 through May 11, 2009.

The site is located at the intersection of Village Street and Main Street, Medway, Massachusetts. Contaminated groundwater is to be extracted from a sewer line trench, stored in a 20,000-gallon frac tank, where it will then be treated through a bag filter and 2,000 lb. carbon filtration system. The treated groundwater will be discharged onto the ground surface where it will run off into a siltation barrier and discharge into the nearby storm drain. The treated groundwater will eventually flow into the Charles River.

Additional information is contained in the attached Notice of Intent (NOI) and attached Figures. If you have any questions, please feel free to call GEOSPHERE at 603-773-0075 or 888-838-6571.

Sincerely,
GEOSPHERE ENVIRONMENTAL MANAGEMENT, INC.

David Niemeyer, P.G.
Director of Environmental Compliance

Attachments

cc: Mark Flaherty, Water and Sewer Superintendent, Town of Medway, Massachusetts

51 PORTSMOUTH AVENUE, EXETER, NEW HAMPSHIRE 03833
Telephone: 603-773-0075 Fax: 603-773-0077
www.geospherenh.com

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**: Sewer Line Installation			**Facility/site** address: Village Street and Main Street, Medway, MA
Location of **facility/site**: longitude: 42.14N latitude: 71.44W	Facility SIC code(s):		Street: Village Street and Main Street, Medway, MA
b) Name of **facility/site owner:** Town of Medway, Water and Sewer Dept.			Town: Medway
Email address of owner: Mark Flaherty, Water and Sewer Superintendent mflaherty@townofmedway.org			State: MA / Zip: 02053 / County: Norfolk
Telephone no.of facility/site **owner**: 508-533-3200			
Fax no. of facility/site **owner**:			**Owner** is (check one): 1. Federal____ 2. State/Tribal X 3. Private_____ 4. other, if so, describe:
Address of **owner** (if different from site):			
Street: Medway Town Hall, 155 Village Street			
Town: Medway	State: MA	Zip: 02053	County: Norfolk
c) Legal name of **operator**: Geosphere Environmental Management, Inc.	**Operator** telephone no: 603-773-0075		
	Operator fax no.: 603-773-0077		**Operator** email: dniemeyer@geospherenh.com
Operator contact name and title: David Niemeyer, Senior Project Hydrogeologist, Geosphere Environmental Management, Inc.			

Address of **operator** (if different from owner):	Street: 51 Portsmouth Ave		
Town: Exeter	State: NH	Zip: 03833	County: Rockingham

d) Check "yes" or "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No_X_, if "yes," number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No_X_, if "yes," date and tracking #:
3. Is the discharge a "new discharge"as defined by 40 CFR 122.2? Yes_X_ No___
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes__ No_X_

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes___ No_X_ 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_X_ if Y, number: 2. phase I or II construction storm water general permit? Y___ N_X_, if Y, number: 3. individual NPDES permit? Y___ N_X_, if Y, number: 4. any other water quality related permit? Y___ N_X_, 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:
A temporary treatment system, incorporating a storage tank and carbon filtration system will be installed on site to treat Benzene, Toluene, and TPH contaminated groundwater, in relation to a historical diesel spill. The groundwater will be extracted from a sewer line trench. The treated groundwater will be discharged onto the ground surface where it will run off into a siltation barrier and eventually discharge into a storm drain.

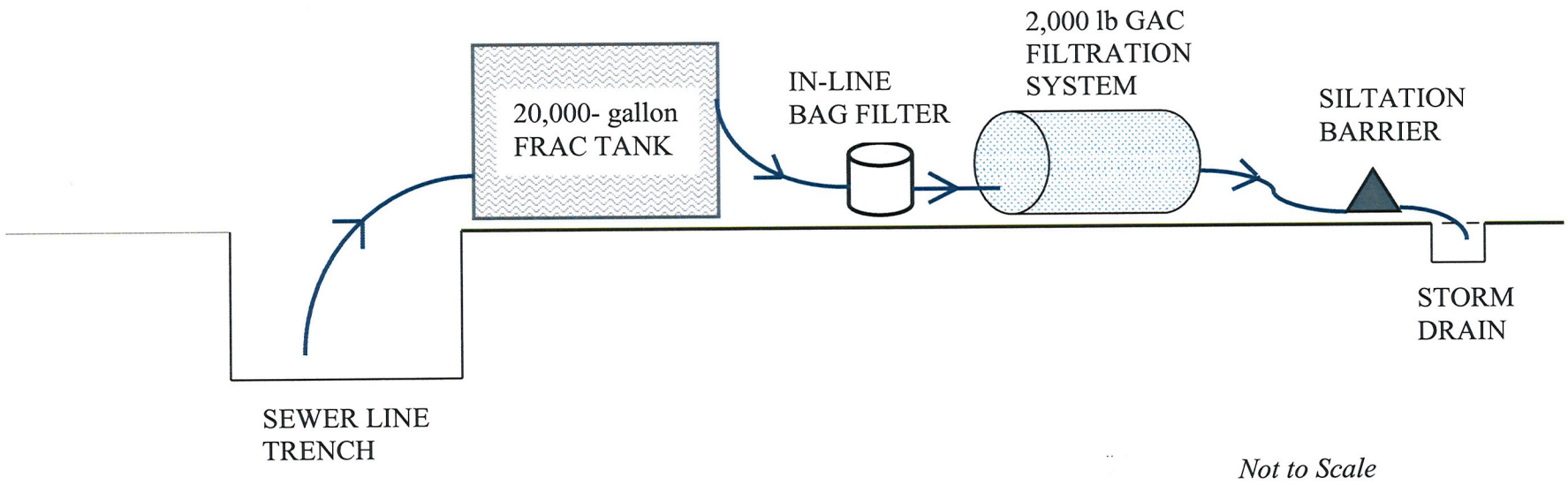
b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)? Max. flow 0.1114 cfs Average flow 0.0668 Is maximum flow a **design value**? Y___ N_X_ For average flow, include 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. 42.14E lat. 71.44N; 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 X or seasonal ____? Is discharge ongoing Yes ____ No X ? Temporary system, 7 days maximum
c) Expected dates of discharge (mm/dd/yy): start 4/27/2009 end 5/4/2009	
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 Figure 1 - Site Plan

Figure 2 – Temporary Groundwater Treatment System Schematic



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 X	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		X	1	grab	SM-2540D	2.0 mg/L	96 mg/L			
2. Total Residual Chlorine	X		1	grab	SM4500 -CL G	0.1 mg/L	<0.1 mg/L			
3. Total Petroleum Hydrocarbons		X	2	grab	8015 /1664	588 ug/L (8015) 0.5 mg/L (1664)	671		335.5	
4. Cyanide		X	1	grab	SM4500 -CN-CE	0.01 mg/L	0.01 mg/L			
5. Benzene		X	2	grab	8260B	0.50 and 1.0	4.8		2.9	
6. Toluene		X	2	grab	8260B	0.75 and 1.0	1.5		1.25	
7. Ethylbenzene	X		2	grab	8260B	0.5 and 1.0	<1.0			
8. (m,p,o) Xylenes	X		2	grab	8260B	1.0	<1.0			
9. Total BTEX[4]		X	2	grab	8260B	--	6.3		4.15	

[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)	X		1	grab	504.1	0.02	<0.02			
11. Methyl-tert-Butyl Ether (MtBE)	X		1	grab	8260B	2.0	<2.0			
12. tert-Butyl Alcohol (TBA)	X		1	grab	8260B	25.0	<25.0			
13. tert-Amyl Methyl Ether (TAME)	X		1	grab	8260B	5.0	<5.0			
14. Naphthalene	X		1	grab	8260B	1.0	<1.0			
15. Carbon Tetra-chloride	X		1	grab	8260B	1.0	<1.0			
16. 1,4 Dichlorobenzene	X		1	grab	8260B	1.0	<1.0			
17. 1,2 Dichlorobenzene	X		1	grab	8206B	1.0	<1.0			
18. 1,3 Dichlorobenzene	X		1	grab	8206B	1.0	<1.0			
19. 1,1 Dichloroethane	X		1	grab	8260B	1.0	<1.0			
20. 1,2 Dichloroethane	X		1	grab	8260B	1.0	<1.0			
21. 1,1 Dichloroethylene	X		1	grab	8260B	1.0	<1.0			
22. cis-1,2 Dichloro-ethylene	X		1	grab	8206B	1.0	<1.0			
23. Dichloromethane (Methylene Chloride)	X		1	grab	8260B	5.0	<5.0			
24. Tetrachloroethylene	X		1	grab	8260B	1.0	<1.0			

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 ug/L	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	X		1	grab	8260B	1.0	<1.0			
26. 1,1,2 Trichloroethane	X		1	grab	8260B	1.0	<1.0			
27. Trichloroethylene	X		1	grab	8260B	1.0	<1.0			
28. Vinyl Chloride	X		1	grab	8260B	1.0	<1.0			
29. Acetone	X									
30. 1,4 Dioxane	X		1	grab	8260B	3.0	<3.0			
31. Total Phenols	X		1	grab	8270D	5.0	<5.0			
32. Pentachlorophenol	X		1	grab	8270D	5.0	<5.0			
33. Total Phthalates [5] (Phthalate esthers)	X		1	grab	8270D	5.0	<5.0			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	X		1	grab	8270D	5.0	<5.0			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	X		1	grab	8270D	--	--			
a. Benzo(a) Anthracene	X		1	grab	8270D	5.0	<5.0			
b. Benzo(a) Pyrene	X		1	grab	8270D	5.0	<5.0			
c. Benzo(b)Fluoranthene	X		1	grab	8270D	5.0	<5.0			
d. Benzo(k) Fluoranthene	X		1	grab	8270D	5.0	<5.0			
e. Chrysene	X		1	grab	8270D	5.0	<5.0			

[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 ug/L	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	X		1	grab	8270D	5.0	<5.0			
g. Indeno(1,2,3-cd) Pyrene	X		1	grab	8270D	5.0	<5.0			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	X		1	grab	8270D	--	--			
h. Acenaphthene	X		1	grab	8270D	5.0	<5.0			
i. Acenaphthylene	X		1	grab	8270D	5.0	<5.0			
j. Anthracene	X		1	grab	8270D	5.0	<5.0			
k. Benzo(ghi) Perylene	X		1	grab	8270D	5.0	<5.0			
l. Fluoranthene	X		1	grab	8270D	5.0	<5.0			
m. Fluorene	X		1	grab	8270D	5.0	<5.0			
n. Naphthalene-	X		1	grab	8270D	5.0	<5.0			
o. Phenanthrene	X		1	grab	8270D	5.0	<5.0			
p. Pyrene	X		1	grab	8270D	5.0	<5.0			
37. Total Polychlorinated Biphenyls (PCBs)	X		1	grab	608	0.5	<0.5			
38. Antimony	X		1	grab	200.7	0.100 mg/L	<0.100 mg/L			
39. Arsenic	X		1	grab	200.7	0.050 mg/L	<0.050 mg/L			
40. Cadmium	X		1	grab	200.7	0.004 mg/L	<0.004 mg/L			
41. Chromium III	X		1	grab	200.7	0.005 mg/L	<0.005 mg/L			
42. Chromium VI	X		1	grab	SM3500-CRD	0.02 mg/L	<0.02 mg/L			

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 mg/L	Maximum daily value		Avg. daily value	
							concentration (~~ug/l~~) mg/L	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	X		1	grab	200.7	0.010	<0.010			
44. Lead	X		1	grab	200.7	0.040	<0.040			
45. Mercury	X		1	grab	245.1	0.0005	<0.0005			
46. Nickel	X		1	grab	200.7	0.010	<0.010			
47. Selenium	X		1	grab	200.7	0.050	<0.050			
48. Silver	X		1	grab	200.7	0.020	<0.020			
49. Zinc	X		1	grab	200.7	0.020	<0.020			
50. Iron		X	1	grab	200.7	0.100	0.588			
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_X_	If yes, which metals?
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? 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:

Groundwater within the open sewer line trench will be extracted and stored in a 20,000 frac tank, where it will then be pumped through a bag filter prior to being pumped and treated through a 2,000 lb. carbon filtration system. A pumped rated at 50 gpm will be used to pump the contaminated groundwater through the temporary system.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank X	Air stripper	Oil/water separator	Equalization tanks	Bag filter X	GAC filter X
	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 30 gpm Maximum flow rate of treatment system 50 gpm Design flow rate of treatment system _____

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

NONE

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

a) Identify the discharge pathway:	Direct_____	Within facility__	Storm drain X	River/brook____	Wetlands_____	Other (describe): X Siltation Barrier

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

Treated groundwater will be discharged directly onto the ground surface, where it will run off into a siltation barrier and discharge into the nearby storm drain that eventually discharges in the Charles River.

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: See Figure 1. Site Plan
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 N/A **(See Attachment A)** 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 X If yes, for which pollutant(s)?

Is there a TMDL? Yes____ No X 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 X (See Notes in Section 7)
Has any consultation with the federal services been completed ? YES _____ No X or is consultation underway? YES _____ No X
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 X Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes_____ No X

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.

In regards to Section 6, GEOSPHERE has reviewed Appendix VII Section I, and determined the Site meets the requirments of Criteria D. After an evaulation of available data, the effect of the Site's discharges and discharge related activities does not adversely affect any listed species or critical habitiat.

See Attached Figure 1 -Site Plan, for the proposed temporary discharge location.

See Attachment A for for the Charles River (receiving waters) available Streamflow Statistics.

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: Sewer line replacement project, Town of Medway, Massachusetts

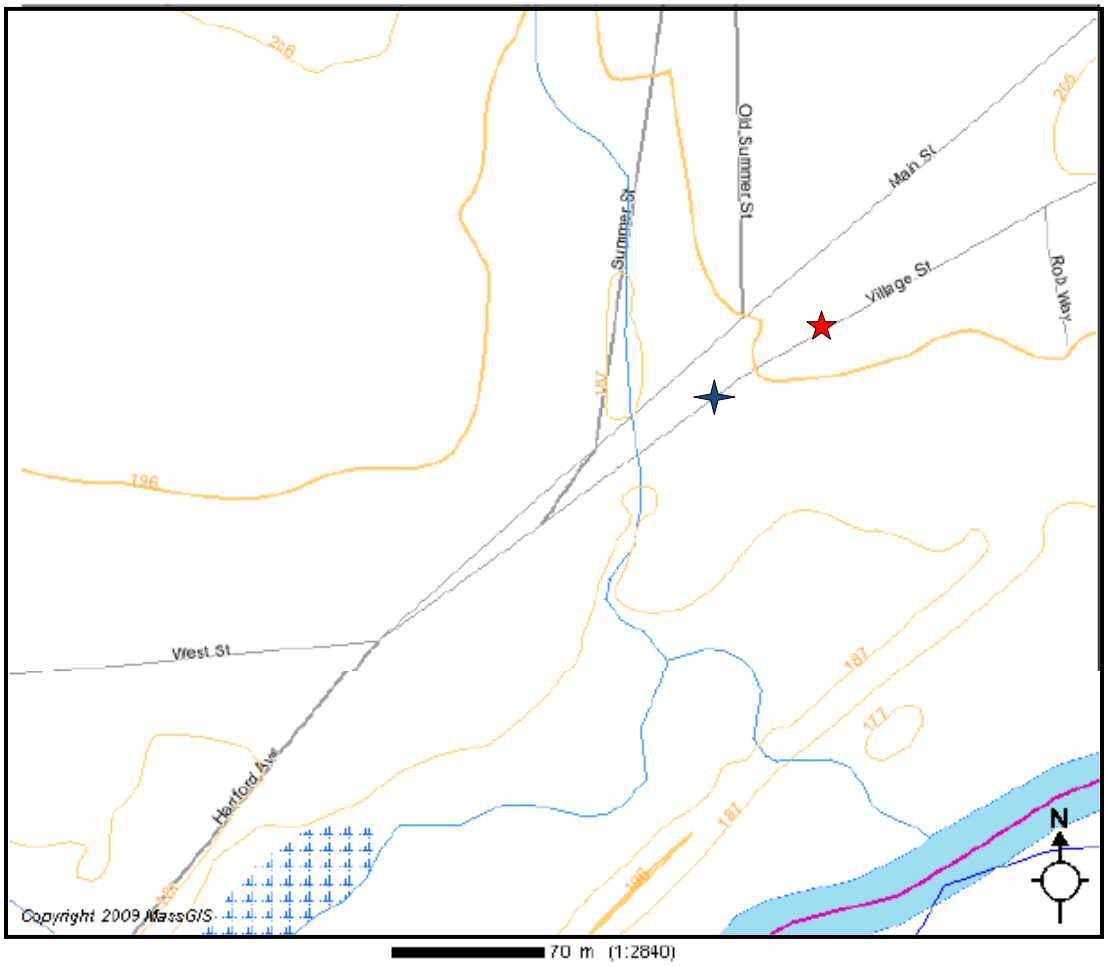
Operator signature:

Title: Director of Environmental Compliance,
Geosphere Environmental Management, Inc.

Date: April 27, 2009

FIGURE 1 – SITE PLAN

Medway, Massachusetts



Source: MassGIS (www.mass.gov/mgis). Maps and photos are for planning purposes only.

WARNING: This map does not meet national map accuracy standards, and cannot be used for engineering purposes. Please consult conditions of use at http://www.state.ma.us/mgis/

★ Temporary Groundwater Treatment Location

✦ Treated Groundwater Discharge Location

Areas of Critical Environmental Concern ACECs

Areas of Critical Environmental Concern..ACECs

Zone IIs

Zone IIs

Contours 3m Lines

Contours 3m

15M INTERVAL

Contours 3m Labels Feet

Contours 3m Labels Feet

Census 2000 Roads

Census 2000 Roads

Primary Road, Limited Access

Primary Road, Not Limited Access

Secondary Road

Local Road, Access Ramp

Vehicular Road

Other Trails

USGS Water Bodies 25k

USGS Water Bodies 25k

LAKE, POND, OCEAN

RESERVOIR

WETLAND

SALT WETLAND

SUBMERGED WETLAND

CRANBERRY BOG

TIDAL FLAT

INUNDATED AREA

USGS Rivers and Streams 25k

USGS Rivers and Streams 25K

STREAM

INTERMITTENT STREAM

SHORELINE

INTERMITTENT SHORELINE

MANMADE SHORELINE

DITCH/CANAL

AQUEDUCT

DAM

CHANNEL IN WATER

Aquifers by Yield Green Shades

Aquifers

HIGH YIELD

MEDIUM YIELD

StreamStats Data-Collection Station Report

USGS Station Number	01103280
Station Name	CHARLES RIVER AT MEDWAY, MA

Click here to link to available data on NWIS-Web for this site.

Descriptive Information

Station Type	Gaging Station, continuous record
Regulated?	Undefined
Period of Record	
Remarks	
Latitude (degrees NAD83)	42.1398197
Longitude (degrees NAD83)	-71.389503
Hydrologic unit code	01090001
Local Basin	-
County	021-Norfolk
MCD	-
Directions to station	

Physical Characteristics

Characteristic Name	Value	Units	Citation Number

Streamflow Statistics

Statistic Name	Value	Units	Citation Number

Flow-Duration Statistics

1_Percent_Duration	693.07	cubic feet per second	41
10_Percent_Duration	277.6	cubic feet per second	41
20_Percent_Duration	180	cubic feet per second	41
25_Percent_Duration	149	cubic feet per second	41
30_Percent_Duration	122.8	cubic feet per second	41
40_Percent_Duration	87.9	cubic feet per second	41
5_Percent_Duration	381.05	cubic feet per second	41
50_Percent_Duration	64	cubic feet per second	41
60_Percent_Duration	48.1	cubic feet per second	41
70_Percent_Duration	36	cubic feet per second	41
75_Percent_Duration	28	cubic feet per second	41
80_Percent_Duration	20	cubic feet per second	41
90_Percent_Duration	13	cubic feet per second	41
95_Percent_Duration	9.295	cubic feet per second	41
99_Percent_Duration	4	cubic feet per second	41
General Flow Statistics			
Average_daily_streamflow	115.029	cubic feet per second	41
Maximum_daily_flow	1410	cubic feet per second	41
Minimum_daily_flow	2.1	cubic feet per second	41
Std_Dev_of_daily_flows	141.287	cubic feet per second	41
Base Flow Statistics			
Average_BFI_value	0.496	dimensionless	42
Number_of_years_to_compute_BFI	5	years	42
Std_dev_of_annual_BFI_values	0.023	dimensionless	42

Citations

Citation Number	Citation Name and URL
41	Wolock, D.M., 2003, Flow characteristics at U.S. Geological Survey streamgages in the conterminous United States: U.S. Geological Survey Open-File Report 03-146, digital data set, available on World Wide Web at URL http://water.usgs.gov/lookup/getspatial?qsitesdd
42	Wolock, D.M., 2003, Base-flow index grid for the conterminous United States: U.S. Geological Survey Open-File Report 03-263, digital data set, available on World Wide Web at URL http://water.usgs.gov/lookup/getspatial?bfi48grd

CERTIFICATE OF ANALYSIS

Geosphere Environmental Mgt.
Attn: Mr. David Niemeyer
51 Portsmouth Avenue
Exeter, NH 03833

Date Received: 4/22/2009
Date Reported: 4/24/2009
P.O. #:
Work Order #: 0904-06769

DESCRIPTION: PROJECT# 09208 MEDWAY RGP

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by 40 CFR, 136 / U.S. EPA approved methodologies and all NELAC requirements were met. The specific methodologies are listed in the methods column of the Certificate of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

(~) Indicates NELAP certification for this analyte.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:

Sharon Baker
Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Geosphere Environmental Mgt.
Date Received: 4/22/2009
Work Order #: 0904-06769

Approved by: Data Reporting

Sample # 001
SAMPLE DESCRIPTION: STA 43-GW
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 4/22/2009 @ 10:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Temperature upon receipt	11		degrees C	EPA 170.1	4/22/2009	10:35	SSS
Total Suspended Solids	96	2.0	mg/l	SM-2540D	4/23/2009	10:54	ALC
Total Residual Chlorine	<0.1	0.1	mg/l	SM 4500CL G	4/22/2009	21:30	CAA
Total Cyanide	0.01	0.01	mg/l	SM-4500CN-C E	4/23/2009	20:16	ML
Hexavalent Chromium	<0.02	0.02	mg/l	SM3500-CR D	4/22/2009	22:00	CAA
Trivalent Chromium	<0.02	0.02	mg/l	CALCULATION	4/24/2009	8:32	BMM
TPH	1.7	0.5	mg/l	EPA 1664	4/24/2009	7:20	TV
PCB							
Aroclor-1016	<0.5	0.5	ug/l	EPA 608	4/23/2009	12:34	RGM
Aroclor-1221	<0.5	0.5	ug/l	EPA 608	4/23/2009	12:34	RGM
Aroclor-1232	<0.5	0.5	ug/l	EPA 608	4/23/2009	12:34	RGM
Aroclor-1242	<0.5	0.5	ug/l	EPA 608	4/23/2009	12:34	RGM
Aroclor-1248	<0.5	0.5	ug/l	EPA 608	4/23/2009	12:34	RGM
Aroclor-1254	<0.5	0.5	ug/l	EPA 608	4/23/2009	12:34	RGM
Aroclor-1260	<0.5	0.5	ug/l	EPA 608	4/23/2009	12:34	RGM
Surrogate			RANGE		4/23/2009	12:34	RGM
Tetrachloro-m-xylene(TCMX)	110		30-150%	EPA 608	4/23/2009	12:34	RGM
Decachlorobiphenyl	91		30-150%	EPA 608	4/23/2009	12:34	RGM
Extraction date	Extracted			SW846 3510	4/23/2009	12:22	CEC
Semi-Volatile Organic Compounds							
Acenaphthene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Acenaphthylene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Anthracene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Benzidine	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Benzo(a)anthracene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Benzo(b)fluoranthene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Benzo(k)fluoranthene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Benzo(g,h,i)perylene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Benzo(a)pyrene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Bis(2-chloroethyl)ether	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Bis(2-Chloroethoxy)methane	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Bis(2-Chloroisopropyl)Ether	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Bis(2-ethylhexyl)phthalate	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
4-Bromophenyl phenyl ether	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Butylbenzyl phthalate	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2-Chloronaphthalene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
4-Chlorophenyl phenyl ether	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Chrysene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Dibenzo(a,h)anthracene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Di-n-butyl phthalate	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC

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SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 4/22/2009 @ 10:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
1,2-Dichlorobenzene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
1,3-Dichlorobenzene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
1,4-Dichlorobenzene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
3,3'-Dichlorobenzidine	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Diethyl phthalate	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Dimethyl phthalate	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2,4-Dinitrotoluene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2,6-Dinitrotoluene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Di-n-octyl phthalate	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
1,2-Diphenylhydrazine	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Fluoranthene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Fluorene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Hexachlorobenzene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Hexachlorobutadiene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Hexachlorocyclopentadiene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Hexachloroethane	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Indeno(1,2,3-cd)pyrene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Isophorone	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Naphthalene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Nitrobenzene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
N-nitrosodimethylamine	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
N-nitrosodiphenylamine	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
N-nitrosodi-n-propylamine	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Phenanthrene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Pyrene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
1,2,4-Trichlorobenzene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
4-Chloro-3-methylphenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2-Chlorophenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2,4-Dichlorophenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2,4-Dimethylphenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2-Methyl-4,6-dinitrophenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2,4-Dinitrophenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2-Nitrophenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
4-Nitrophenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Pentachlorophenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Phenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2,4,5-Trichlorophenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2,4,6-Trichlorophenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2-Methylnaphthalene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
2-Methylphenol	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
3 & 4-Methylphenols	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC

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PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Acetophenone	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Aniline	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Azobenzene	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
4-Chloroaniline	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Dibenzofuran	<5	5	ug/l	SW-846 8270D	4/23/2009	15:24	MLC
Surrogates			RANGE	SW-846 8270D	4/23/2009	15:24	MLC
Phenol-d5	21		15-110%	SW-846 8270D	4/23/2009	15:24	MLC
2-Fluorophenol	22		15-110%	SW-846 8270D	4/23/2009	15:24	MLC
2,4,6-Tribromophenol	59		15-110%	SW-846 8270D	4/23/2009	15:24	MLC
Nitrobenzene-d5	56		30-130%	SW-846 8270D	4/23/2009	15:24	MLC
2-Fluorobiphenyl	74		30-130%	SW-846 8270D	4/23/2009	15:24	MLC
P-Terphenyl-d14	54		30-130%	SW-846 8270D	4/23/2009	15:24	MLC
Total Metals							
Antimony	<0.100	0.100	mg/l	EPA 200.7	4/23/2009	20:04	VMY
Arsenic	<0.050	0.050	mg/l	EPA 200.7	4/23/2009	20:04	VMY
Cadmium	<0.004	0.004	mg/l	EPA 200.7	4/23/2009	20:04	VMY
Chromium	<0.005	0.005	mg/l	EPA 200.7	4/23/2009	20:04	VMY
Copper	<0.010	0.010	mg/l	EPA 200.7	4/23/2009	20:04	VMY
Iron	0.588	0.100	mg/l	EPA 200.7	4/23/2009	20:04	VMY
Lead	<0.040	0.040	mg/l	EPA 200.7	4/23/2009	20:04	VMY
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	4/24/2009	14:34	MAZ
Nickel	<0.010	0.010	mg/l	EPA 200.7	4/23/2009	20:04	VMY
Selenium	<0.050	0.050	mg/l	EPA 200.7	4/23/2009	20:04	VMY
Silver	<0.020	0.020	mg/l	EPA 200.7	4/23/2009	20:04	VMY
Zinc	<0.020	0.020	mg/l	EPA 200.7	4/23/2009	20:04	VMY
Volatile Organic Compounds							
Benzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	4/23/2009	13:04	MMM

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Sample # 001
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SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 4/22/2009 @ 10:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	4/23/2009	16:37	MMM
Ethylbenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Styrene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Toluene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM

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SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 4/22/2009 @ 10:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Ethyl Tertiary Butyl Ether	<5	2	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Diisopropyl Ether (DIPE)	<5	2	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Tertiary Amyl Methyl Ether	<5	2	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Tertiary Butanol (TBA)	<25	25	ug/l	SW-846 8260B	4/23/2009	13:04	MMM
Surrogates			RANGE	SW-846 8260B	4/23/2009	13:04	MMM
Dibromofluoromethane	96		86-118%	SW-846 8260B	4/23/2009	13:04	MMM
Toluene-d8	96		88-110%	SW-846 8260B	4/23/2009	13:04	MMM
4-Bromofluorobenzene	93		86-115%	SW-846 8260B	4/23/2009	13:04	MMM
1,2 Dichloroethane-d4	95		80-120%	SW-846 8260B	4/23/2009	13:04	MMM
Volatile Organic Compounds							
1,4-Dioxane	<3	3	ug/l	SW-846 8260B	4/24/2009	16:13	MMM
Surrogates			RANGE	SW-846 8260B	4/24/2009	16:13	MMM
1,4- Dioxane-d8	87		70-130%	SW-846 8260B	4/24/2009	16:13	MMM
Organic Compounds							
1,2-Dibromoethane (EDB)	<0.02	0.02	ug/l	EPA 504.1	4/23/2009	18:18	RGM
1,2-Dibromo-3-chloropropane (DBCP)	<0.02	0.02	ug/l	EPA 504.1	4/23/2009	18:18	RGM

CHAIN OF CUSTODY RECORD

R.I. Analytical Laboratories, Inc.

41 Illinois Avenue
Warwick, RI 02888
Tel: 800-937-2580
Fax: 401-738-1970

131 Coolidge St, Bldg. 2
Hudson, MA 01749
Tel: 888-228-3334
Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type T	Preservation Code P	Matrix Code M	TSS (160.2)	TRC (330.5)	TPH (1664)	CN (335.2)	(8260B) VOCs + oxygenates, dioxane, EDB	SVOCs (8270D)	PCBs (608)	Total Metals (see list)	Hex Chromium (218.5/7196/3060A)
4/22/09	10:00AM	STA 43-GW	G			GW									
				2AG	NP								X		
				2AG	NP							X			
				2AG	S				X						
				1P	NP		X	X							X
				1P	SH					X					
				1P	N									X	
				4V	H						X				

Client Information		Project Information	
Company Name:	GEOSPHERE	Project Name:	Medway RGP
Address:	51 Portsmouth Ave	P.O. Number:	Project Number: 09208
City / State / Zip:	Exeter, NH 03833	Report To:	Phone: Fax:
Telephone:	603-773-0075 x12 Fax: 603-773-0077	Sampled by:	Abigail Thompson
Contact Person:	DAVID NIEMEYER	Quote No:	GE0081034 Email address: dniemeyer@geosphereinh.com

Relinquished By	Date	Time	Received By	Date	Time
[signature]	4/22/2009	10:55	[signature]	4.22.09	1035
[signature]	4.22.09	16:30	[signature]	4-22-09	16:30
[signature]	4-22-09	17:45	[signature]	4/22/09	1745

Turn Around Time			
	Normal	X	EMAIL Report
	5 Business days. Possible surcharge.		
X	Rush 3 (business days)		

Project Comments

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3 MCP Data Enhancement QC Package? Yes (No)

Metals: Antimony, Arsenic, Cadmium, Chromium III, Chromium VI, Copper, Lead, Mercury, Nickel, Selenium, Silver, Zinc, Iron

SVOCs: include Total Phenols, Pentachlorophenol, Total Phthalates, Bis(2-Hexylethyl) Phthalate 11°C

Lab Use Only	
	Sample Pick Up Only
	RIAL sampled; attach field hours
X	Shipped on ice
Workorder No:	0904-06769

Container Types: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservation Codes: NP=None, N=HNO_3, H=HCl, S=H_2SO_4, SH=NaOH, SB=$NaHSO_4$, M=MeOH, T=Na_2S_2O Z=ZnOAc, I=Ice

Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, Sl=Sludge, A=Air, B=Bulk/Solid, O=_____