



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

**5 Post Office Square, Suite 100
BOSTON, MA 02109-3912**

CERTIFIED MAIL RETURN RECEIPT REQUESTED

JAN 11 2013

Doug Murray, Construction Manager
Gershman Brown Crowley, Inc.
14 Breakneck Hill Road, Suite 101
Lincoln, RI 02865

Re: Authorization to discharge under the Remediation General Permit (RGP) –
MAG910000. Proposed CVS Pharmacy/Store construction site located at 2 West Center
Street, West Bridgewater, MA, Plymouth County; Authorization # MAG910565

Dear Mr. Murray:

Based on the review of a Notice of Intent (NOI) submitted on behalf of Gershman Brown Crowley, Inc., by the firm Ransom Consulting, Inc., for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Owner Representative and Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The checklist enclosed with this RGP authorization indicates the pollutants which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the checklist does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of this permit, including influent and effluent monitoring, narrative water quality standards, record keeping, and reporting requirements, found in Parts I and II, and Appendices I – VIII of the RGP. See EPA's website for the complete RGP and other information at: <http://www.epa.gov/region1/npdes/mass.html#dgp>.

Please note the enclosed checklist includes parameters that exceeded Appendix III limits. The checklist also includes other parameters for which your laboratory reports indicated there was insufficient sensitivity to detect these parameters at the minimum levels established in Appendix VI of the RGP.

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on selected dilution ranges and technology-based ceiling limitations. For each parameter the dilution factor 14.0 for this site is within a dilution range greater than ten to fifty (> 10 to 50), established in the RGP. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the limits for arsenic of 100

ug/L, lead of 13ug/L, zinc of 666 ug/L and iron of 5,000 ug/L, are required to achieve permit compliance at your site.

Finally, please note the checklist of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. A recertification can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP regulations.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on February 1, 2014. If for any reason the discharge terminates sooner you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

Thank you in advance for your cooperation in this matter. Please contact Victor Alvarez at 617-918-1572 or Alvarez.Victor@epa.gov, if you have any questions.

Sincerely,



Thelma Murphy, Manager
Storm Water and Construction
Permits Section

Enclosure

cc: Robert Kubit, MassDEP
Nancy J. Moloney, BS
Barrett L. Smith, Ransom Inc.

**2010 Remediation General Permit
Summary of Monitoring Parameters^[1]**

NPDES Authorization Number:	MAG910565
Authorization Issued:	January, 2013
Facility/Site Name:	Proposed CVS Pharmacy/Store#1803
Facility/Site Address:	2 West Center Street, West Bridgewater, MA 02379 Email address of owner: dmurray@gershmanbrowncrow.com
Legal Name of Operator:	Gershman Brown Crowley, Inc
Operator contact name, title, and Address:	Doug Murray, Construction Manager, 14 Breakneck Hill Road, Suite 101, Lincoln, RI 02865 Email: Same as the owner
Estimated date of Completion:	February 1, 2014
Category and Sub-Category:	Category I-Petroleum Related site Remediation. Subcategory C. Petroleum Sites with additional Contamination
RGP Termination Date:	September 10, 2015
Receiving Water:	Town River

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

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
✓	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing ** Me#160.2/ML5ug/L
	2. Total Residual Chlorine (TRC) ¹	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
✓	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
	4. Cyanide (CN) ^{2, 3}	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 10ug/L
✓	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
✓	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
✓	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
✓	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
✓	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) ⁴	100 ug/L/ Me#8260C/ ML 2ug/L
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
✓	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/L/Me#8260C/ML 10ug/L
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
✓	14. Naphthalene ⁵	20 ug/L /Me#8260C/ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
✓	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
✓	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ ML 5ug/L
	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML 5ug/L,Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) ⁶	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/L
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
	a. Benzo(a) Anthracene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	b. Benzo(a) Pyrene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	c. Benzo(b)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	d. Benzo(k)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	e. Chrysene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	g. Indeno(1,2,3-cd) Pyrene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
✓	h. Acenaphthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	m. Fluorene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene ⁵	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) ^{8,9}	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 100 ug/L

	<u>Metal parameter</u>	<u>Total Recoverable Metal Limit @ H ¹⁰ = 50 mg/l CaCO3 for discharges in Massachusetts (ug/l)</u> <u>11/12</u>		<u>Minimum level=ML</u>
		<u>Freshwater</u>	<u>Saltwater</u>	
	39. Antimony	5.6/ML 10		
✓	40. Arsenic **	100/ML 20	36/ML 20	
	41. Cadmium **	0.2/ML 10	8.9/ML 10	
	42. Chromium III (trivalent)	48.8/ML 15	100/ML 15	

	Metal parameter	Total Recoverable Metal Limit @ H¹⁰ = 50 mg/l CaCO₃ for discharges in Massachusetts (ug/l) 11/12		Minimum level=ML	
		Freshwater	Saltwater		
	**				
	43. Chromium VI (hexavalent) **	11.4/ML10	50.3/ML 10		
	44. Copper **	5.2/ML15	3.7/ML 15		
✓	45. Lead **	13/ML20	8.5/ML 20		
	46. Mercury **	0.9/ML0.2	1.1/ML 0.2		
	47. Nickel **	29/ML20	8.2/ML 20		
	48. Selenium **	5/ML20	71/ML 20		
	49. Silver	1.2/ML10	2.2/ML 10		
✓	50. Zinc **	666/ML15	85.6/ML 15		
✓	51. Iron	5,000/ML 20			

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

Footnotes:

¹ Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).

² Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.

³ Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).

⁴ BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.

⁵ Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.

⁶ The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁷ Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

⁸ In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁹Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).

¹⁰ Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.

¹¹ For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using $DF \times 1,000 \text{ ug/L}$ (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit = $1,000 \times 2 = 2,000 \text{ ug/L}$, etc. not to exceed the DF=5.

¹² Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).

¹³ pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.

¹⁴ Temperature sampling per Method 170.1

D = 1409



Consulting
Engineers
and Scientists

December 21, 2012

Project 091.05123.009

U.S. Environmental Protection Agency
ATTN: Remediation General Permit NOI Processing
5 Post Office Square, Suite 100
Mail Code OEP06-4
Boston, Massachusetts 02109-3912

MA6910565

RE: Notice of Intent
Proposed CVS Pharmacy/Store #1803
2 West Center Street
West Bridgewater, Massachusetts

To Whom It May Concern:

Ransom Consulting, Inc. (Ransom) has prepared the following documents on behalf of Gershman Brown Crowley, Inc. (GBC) for the purposes of filing a Notice of Intent (NOI) to discharge under the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) for Massachusetts and New Hampshire at the above-referenced property. This property constitutes a portion of a proposed redevelopment project to construct a CVS Pharmacy/Store. The proposed redevelopment includes work on three parcels including Lot 5 (12 West Center Street), Lot 22 (17 Central Square), and Lot 23 (2 West Center Street), as identified by the Town of West Bridgewater Assessor's Office (the "Site").

A "Disposal Site," as defined by the Massachusetts Contingency Plan (MCP), resulting from a release of gasoline is located on the 2 West Center Street portion of the Site, and extends onto the 17 Central Square parcel and into the public right-of-way under Central Square and River Street. The MCP defines a Disposal Site as any location where uncontrolled oil and/or hazardous material (OHM) has come to be located as a result of a release of OHM into the environment. The Massachusetts Department of Environmental Protection (MA DEP) identifies the Disposal Site associated with the release of gasoline at 2 West Center Street with Release Tracking Number (RTN) 4-0000407.

As shown on the attached Site Plan, the footprint of the proposed CVS facility is partially co-located with the historical limits of the Disposal Site associated with RTN 4-0000474. This NOI submittal has been prepared as a contingency so that excavation dewatering can be completed within the Disposal Site boundary if high-water-table conditions are encountered during foundation construction during the spring of 2013. The proposed discharge will be to the Town River via an approximately 1,000-foot long, 24-inch-diameter corrugated metal drain pipe. A separate NOI to discharge from portions of the Site outside of the limits of the RTN 4-0000474 Disposal Site under the NPDES Construction General Permit is being submitted by others under separate cover.

60 Valley Street, Bldg. F, Suite 106, Providence, Rhode Island 02909, Tel (401) 433-2160
12 Kent Way, Suite 100, Byfield, Massachusetts 01922, Tel (978) 465-1822, Fax (978) 465-2986
400 Commercial Street, Portland, Maine 04101, Tel (207) 772-2891
Pease International Tradeport, 112 Corporate Drive, Portsmouth, New Hampshire 03801, Tel (603) 436-1490
2127 Hamilton Avenue, Hamilton, New Jersey 08619, Tel (609) 584-0090

www.ransomenv.com

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December 21, 2012

Remediation General Permit NOI Processing
U.S. EPA Region 1

Should you have any questions regarding this NOI Submittal, please do not hesitate to contact the undersigned at (401) 433-2160.

Sincerely,

RANSOM CONSULTING, INC.

Barrett Smith



2012.12.21

14:22:53 -05'00'

Barrett L. Smith, CPG

Project Manager/Hydrogeologist

JD/BLS/BRP:sh

Attachments

cc: Doug Murray, GBC

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

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

a) Name of facility/site: Proposed CVS Pharmacy 1803 —		Facility/site mailing address:	
Location of facility/site:		Street: 2 West Center Street	
Longitude: 71° 00' 30"	Facility SIC code(s): 7538		
Latitude: 42° 01' 07"			
b) Name of facility/site owner:		Town: West Bridgewater	
Email address of facility/site owner:		State: Massachusetts	County: Plymouth
CVS Pharmacy, Inc. c/o CVS Caremark Corporation		Zip: 02379	
Telephone no. of facility/site owner: (401) 770-7282			
Fax no. of facility/site owner: (401) 770-4372			
Address of owner (if different from site):		Owner is (check one): 1. Federal <input type="radio"/> 2. State/Tribal <input type="radio"/>	
		3. Private <input checked="" type="radio"/> 4. Other <input type="radio"/> if so, describe:	
Street: One CVS Drive			
Town: Woonsocket	State: RI	Zip: 02895	County: Providence
c) Legal name of operator:		Operator telephone no.: (401) 721-1612	
Gershman Brown Crowley, Inc.		Operator fax no.:	Operator email: dmurray@gershmanbrowncrow
Operator contact name and title:		Doug Murray, Construction Manager	
Address of operator (if different from owner):		Street: 14 Breakneck Hill Road, Suite 101	
Town: Lincoln	State: RI	Zip: 02865	County: Providence

<p>d) Check Y for "yes" or N for "no" for the following:</p> <p>1. Has a prior NPDES permit exclusion been granted for the discharge? Y <input type="radio"/> N <input checked="" type="radio"/>, if Y, number: <input type="text"/></p> <p>2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Y <input type="radio"/> N <input checked="" type="radio"/>, if Y, date and tracking #: <input type="text"/></p> <p>3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Y <input checked="" type="radio"/> N <input type="radio"/></p> <p>4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y <input checked="" type="radio"/> N <input type="radio"/></p>	
<p>e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y <input type="radio"/> N <input checked="" type="radio"/></p> <p>If Y, please list:</p> <p>1. site identification # assigned by the state of NH or MA: <input type="text"/></p> <p>2. permit or license # assigned: <input type="text"/></p> <p>3. state agency contact information: name, location, and telephone number: <input type="text"/></p>	<p>f) Is the site/facility covered by any other EPA permit, including:</p> <p>1. Multi-Sector General Permit? Y <input type="radio"/> N <input checked="" type="radio"/>, if Y, number: <input type="text"/></p> <p>2. Final Dewatering General Permit? Y <input type="radio"/> N <input checked="" type="radio"/>, if Y, number: <input type="text"/></p> <p>3. EPA Construction General Permit? Y <input checked="" type="radio"/> N <input type="radio"/>, if Y, number: <input type="text"/></p> <p>4. Individual NPDES permit? Y <input type="radio"/> N <input checked="" type="radio"/>, if Y, number: <input type="text"/></p> <p>5. any other water quality related individual or general permit? Y <input type="radio"/> N <input checked="" type="radio"/>, if Y, number: <input type="text"/></p>
<p>g) Is the site/facility located within or does it discharge to an Area of Critical Environmental Concern (ACEC)? Y <input type="radio"/> N <input checked="" type="radio"/></p>	
<p>h) Based on the facility/site information and any historical sampling data, identify the sub-category into which the potential discharge falls.</p>	
<p>Activity Category</p> <p>I - Petroleum Related Site Remediation</p> <p>II - Non Petroleum Site Remediation</p> <p>III - Contaminated Construction Dewatering</p>	<p>Activity Sub-Category</p> <p>A. Gasoline Only Sites <input type="checkbox"/></p> <p>B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) <input type="checkbox"/></p> <p>C. Petroleum Sites with Additional Contamination <input checked="" type="checkbox"/></p> <p>A. Volatile Organic Compound (VOC) Only Sites <input type="checkbox"/></p> <p>B. VOC Sites with Additional Contamination <input type="checkbox"/></p> <p>C. Primarily Heavy Metal Sites <input type="checkbox"/></p> <p>A. General Urban Fill Sites <input type="checkbox"/></p> <p>B. Known Contaminated Sites <input type="checkbox"/></p>

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites <input type="checkbox"/> B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites <input type="checkbox"/> C. Hydrostatic Testing of Pipelines and Tanks <input type="checkbox"/> D. Long-Term Remediation of Contaminated Sumps and Dikes <input type="checkbox"/> E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) <input type="checkbox"/>
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as necessary) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage: The discharge is for recovery of groundwater from construction-related excavations during property redevelopment. The discharge will be treated on-site using granular activated charcoal (GAC) prior to discharge to the Town River via +/- 1,000 feet of drain pipe along River Street.																			
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 0.11 Is maximum flow a design value? Y <input type="radio"/> N <input checked="" type="radio"/> Average flow (include units) 20 gpm Is average flow a design value or estimate? Estimate																		
3) Latitude and longitude of each discharge within 100 feet: <table border="1"> <tr> <td>pt. 1: lat. 42° 00' 58"</td> <td>long 71° 00' 33"</td> </tr> <tr> <td>pt. 2: lat.</td> <td>long</td> </tr> <tr> <td>pt. 3: lat.</td> <td>long</td> </tr> <tr> <td>pt. 4: lat.</td> <td>long</td> </tr> <tr> <td>pt. 5: lat.</td> <td>long</td> </tr> <tr> <td>pt. 6: lat.</td> <td>long</td> </tr> <tr> <td>pt. 7: lat.</td> <td>long</td> </tr> <tr> <td>pt. 8: lat.</td> <td>long</td> </tr> <tr> <td></td> <td>etc.</td> </tr> </table>		pt. 1: lat. 42° 00' 58"	long 71° 00' 33"	pt. 2: lat.	long	pt. 3: lat.	long	pt. 4: lat.	long	pt. 5: lat.	long	pt. 6: lat.	long	pt. 7: lat.	long	pt. 8: lat.	long		etc.
pt. 1: lat. 42° 00' 58"	long 71° 00' 33"																		
pt. 2: lat.	long																		
pt. 3: lat.	long																		
pt. 4: lat.	long																		
pt. 5: lat.	long																		
pt. 6: lat.	long																		
pt. 7: lat.	long																		
pt. 8: lat.	long																		
	etc.																		
4) If hydrostatic testing, total volume of the discharge (gals):																			
5) Is the discharge intermittent <input checked="" type="radio"/> or seasonal <input type="radio"/> Is discharge ongoing? Y <input type="radio"/> N <input type="radio"/>																			
c) Expected dates of discharge (mm/dd/yy): start 2/1/2012 - end 2/1/2013																			
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 Figures 1 through 3.																			

0.11 + 14.09 = 14.20

3. Contaminant information.

a) Based on the sub-category selected (see Appendix III), indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids (TSS)		<input type="checkbox"/>	<input checked="" type="checkbox"/>								
2. Total Residual Chlorine (TRC)		<input checked="" type="checkbox"/>	<input type="checkbox"/>								
3. Total Petroleum Hydrocarbons (TPH)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	MassDEP EPH ⁺	150				
4. Cyanide (CN)	57125	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
5. Benzene (B)	71432	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	8260B	1	12.1	0.0021	12.1	0.011
6. Toluene (T)	108883	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND
7. Ethylbenzene (E)	100414	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	1.6	0.0003	1.6	0.0015
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	8260B	3	4.2	0.0007	4.2	0.0039
9. Total BTEX ²	n/a	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	8260B	3	17.90	0.0032	17.90	0.0164
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) ³	106934	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND
11. Methyl-tert-Butyl Ether (MtBE)	1634044	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	8260B	1	21	0.0037	21	0.0193
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	<input checked="" type="checkbox"/>	<input type="checkbox"/>								

* Numbering system is provided to allow cross-referencing to Effluent Limits and Monitoring Requirements by Sub-Category included in Appendix III, as well as the Test Methods and Minimum Levels associated with each parameter provided in Appendix VI.

² BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

³ EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
13. tert-Amyl Methyl Ether (TAME)	9940508	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND
14. Naphthalene	91203	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	8260B	10	172	0.0304	172	0.158
15. Carbon Tetrachloride	56235	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND
16. 1,2 Dichlorobenzene (o-DCB)	95501	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	8260B	1	1.2	0.0002	1.2	0.0011
17. 1,3 Dichlorobenzene (m-DCB)	541731	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND
18. 1,4 Dichlorobenzene (p-DCB)	106467	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	8260B	1	1.7	0.0003	1.7	0.0016
18a. Total dichlorobenzene		<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	8260B	1	2.9	0.0005	2.9	0.0027
19. 1,1 Dichloroethane (DCA)	75343	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND
20. 1,2 Dichloroethane (DCA)	107062	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND
21. 1,1 Dichloroethene (DCE)	75354	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND
22. cis-1,2 Dichloroethene (DCE)	156592	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND
23. Methylene Chloride	75092	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	2	ND	ND	ND	ND
24. Tetrachloroethene (PCE)	127184	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND
25. 1,1,1 Trichloro-ethane (TCA)	71556	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND
26. 1,1,2 Trichloro-ethane (TCA)	79005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND
27. Trichloroethene (TCE)	79016	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	ND	ND	ND

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
28. Vinyl Chloride (Chloroethene)	75014	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	1	ND	NA	ND	NA
29. Acetone	67641	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	10	ND	NA	ND	NA
30. 1,4 Dioxane	123911	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8260B	500	ND	NA	ND	NA
31. Total Phenols	108952	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
32. Pentachlorophenol (PCP)	87865	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
33. Total Phthalates (Phthalate esters) ⁴		<input checked="" type="checkbox"/>	<input type="checkbox"/>								
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>								
a. Benzo(a) Anthracene	56553	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.2	ND	NA	ND	NA
b. Benzo(a) Pyrene	50328	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.1	ND	NA	ND	NA
c. Benzo(b)Fluoranthene	205992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.2	ND	NA	ND	NA
d. Benzo(k)Fluoranthene	207089	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.2	ND	NA	ND	NA
e. Chrysene	21801	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.2	ND	NA	ND	NA
f. Dibenzo(a,h)anthracene	53703	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.2	ND	NA	ND	NA
g. Indeno(1,2,3-cd) Pyrene	193395	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.2	ND	NA	ND	NA
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	8270D	0.2	53.45	0.0094	53.45	0.049

⁴ The sum of individual phthalate compounds.

mm

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
h. Acenaphthene	83329	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	8270D	0.2	0.21	0.00004	0.21	0.0002
i. Acenaphthylene	208968	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.2	ND	NA	ND	ND
j. Anthracene	120127	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.2	ND	NA	ND	ND
k. Benzo(ghi) Perylene	191242	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.2	ND	NA	ND	ND
l. Fluoranthene	206440	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.2	ND	NA	ND	ND
m. Fluorene	86737	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	8270D	0.2	0.24	0.00004	0.24	0.0002
n. Naphthalene	91203	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	8270D	0.5	32	0.0057	32	0.0294
o. Phenanthrene	85018	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.5	ND	NA	ND	NA
p. Pyrene	129000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	8270D	0.2	ND	NA	ND	NA
37. Total Polychlorinated Biphenyls (PCBs)	85687;	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
	84742;										
	117840;										
	84662;										
38. Chloride	16887006	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
	7440360	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
	7440382	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
	7440439	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
42. Chromium III (trivalent)	16065831	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	6010B	10	ND	NA	ND	NA
43. Chromium VI (hexavalent)	18540299	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
44. Copper	7440508	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
45. Lead	7439921	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	6010B	10	ND	ND	ND	ND
46. Mercury	7439976	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
47. Nickel	7440020	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	6010B	25	ND	ND	ND	ND
48. Selenium	7782492	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	6010B	25	ND	ND	ND	ND
49. Silver	7440224	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	grab	6010B	5	ND	ND	ND	ND
50. Zinc	7440666	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	6010B	25	34	0.006	34	0.0312
51. Iron	7439896	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
Other (describe):		<input type="checkbox"/>	<input type="checkbox"/>								

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value concentration (ug/l) mass (kg)	Average daily value concentration (ug/l) mass (kg)
Barium	7440393	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	grab	6010B	25	0.0911 245	0.0267

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

<p>Step 1: Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y <input checked="" type="radio"/> N <input type="radio"/></p> <p>Step 2: For any metals which exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI.</p> <p>What is the dilution factor for applicable metals?</p> <p>Metal: Arsenic DF: 14</p> <p>Metal: DF:</p> <p>Metal: DF:</p> <p>Metal: DF:</p> <p>Etc.</p>	<p>If yes, which metals?</p> <p>Arsenic</p> <p>Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)?</p> <p>Y <input type="radio"/> N <input checked="" type="radio"/> If Y, list which metals:</p>
--	--

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:

The objective of the treatment system is to recover and treat groundwater impacted with petroleum hydrocarbons associated with RTN 4-407 (Former Dan's Service Station) if warranted as part of the proposed property redevelopment. Dewatering may be required to remove groundwater from utility and foundation excavations. If required, groundwater will be pumped from open excavations into a fractionation tank to allow silt and fines to settle-out. Water from the fractionation tank will be pumped into the treatment system, which will consist of two granular-activated carbon (GAC) filtering vessels and a bag filter.

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

Frac. tank <input checked="" type="checkbox"/>	Air stripper <input type="checkbox"/>	Oil/water separator <input type="checkbox"/>	Equalization tanks <input type="checkbox"/>	Bag filter <input checked="" type="checkbox"/>	GAC filter <input checked="" type="checkbox"/>
Chlorination <input type="checkbox"/>	De-chlorination <input type="checkbox"/>	Other (please describe):			

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

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

None.

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

a) Identify the discharge pathway:	Direct to receiving water <input type="checkbox"/>	Within facility (sewer) <input type="checkbox"/>	Storm drain <input checked="" type="checkbox"/>	Wetlands <input type="checkbox"/>	Other (describe): <input type="text"/>
------------------------------------	--	--	---	-----------------------------------	--

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:
 After treatment, water will be discharged to a sedimentation basin which overflows into a +/- 1,000 ft long drain pipe along River Street to the Town 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

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

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Y ☐ N ☐ If yes, for which pollutant(s)?

Is there a final TMDL? Y ☐ N ☐ If yes, for which pollutant(s)?

6. ESA and NHPA Eligibility.

Please provide the following information according to requirements of Permit Parts I.A.4 and I.A.5 Appendices II and VII.

- a) Using the instructions in Appendix VII and information on Appendix II, under which criterion listed in Part I.C are you eligible for coverage under this general permit?
A ☒ B ☐ C ☐ D ☐ E ☐ F ☐
- b) If you selected Criterion D or F, has consultation with the federal services been completed? Y ☐ N ☐ Underway ☐
- c) If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received? Y ☐ N ☐
- d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.
- e) Using the instructions in Appendix VII, under which criterion listed in Part II.C are you eligible for coverage under this general permit?
1 ☐ 2 ☒ 3 ☐
- f) If Criterion 3 was selected, attach all written correspondence with the State or Tribal historic preservation officers, including any terms and conditions that outline measures the applicant must follow to mitigate or prevent adverse effects due to activities regulated by the RGP.


7. Supplemental information.

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

ESS Laboratory Certificate of Analysis No. 1109075

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:	Proposed CVS Pharmacy 1803
Operator signature:	
Printed Name & Title:	Douglas P. Murray, MA Regional Const. Mgr.
Date:	December 17, 2012

ATTACHMENT B

Site Location Map, Site Plan, and
Treatment System Schematic

Notice of Intent
2 West Center Street
West Bridgewater, Massachusetts



West Bridgewater

Notes

1. Data Source: USGS National Map Seamless Server, 24K DRG, 1/3" NED
2. USGS Quad Name: Brockton
3. Latitude: 42° 1' 7.7" N
Longitude: 71° 0' 29.9" W
UTM Northing: 4653601.0 mN
UTM Easting: 333718.2 mE

Scale and Orientation

0 1,000 2,000

1 inch = 2,000 feet



Prepared For

CVS Caremark Corporation
One CVS Drive
Woonsocket, Rhode Island

Site Address

Proposed CVS Pharmacy
West Center Street &
Central Square
West Bridgewater,
Massachusetts

091.05123

Dec 2012

Figure 1
Site Location



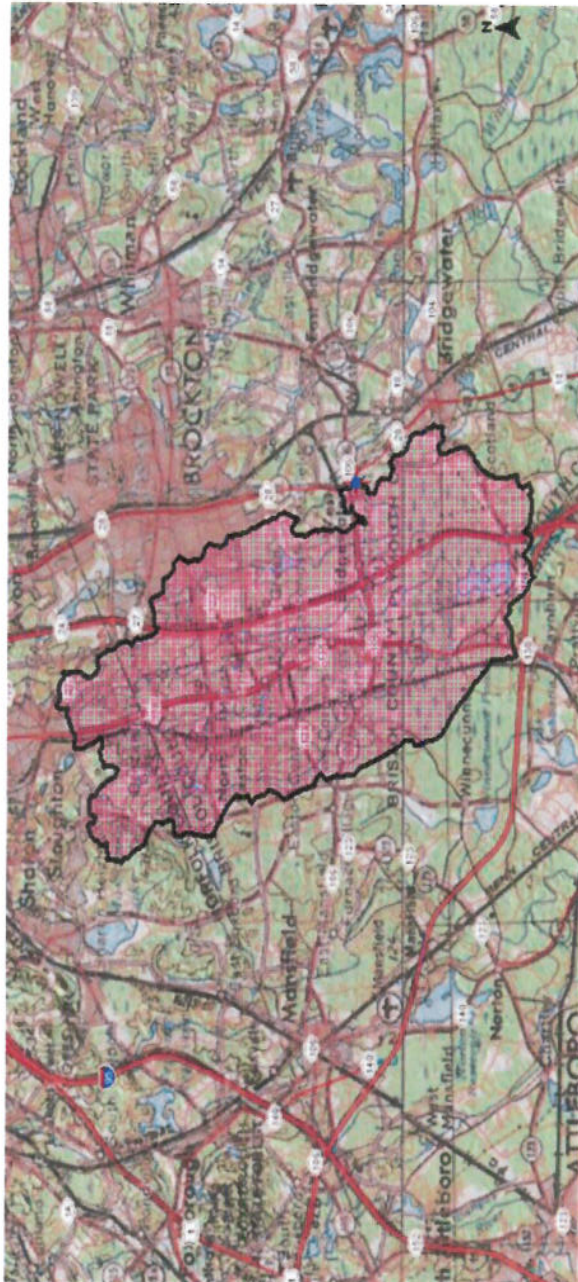
ATTACHMENT C

USGS Massachusetts Streamstats
Drainage Basin Output and Ungaged Site Report

Notice of Intent
2 West Center Street
West Bridgewater, Massachusetts



StreamStats Print Page



- | | Explanation |
|---|-----------------------------------|
| ◆ | NHDOage |
| ◆ | NHDDam |
| ◆ | Gaging Station, Continuous Record |
| ◆ | Low Flow, Partial Record |
| ◆ | Peak Flow, Partial Record |
| ◆ | Peak and Low Flow, Partial Record |
| ◆ | Stage Only |
| ◆ | Low Flow, Partial Record, Stage |
| ◆ | Miscellaneous Record |
| ◆ | Unknown |
| ★ | GlobalWatershedPoint |
| — | Dendritic Stream Network |
| ■ | GlobalWatershed |
| ✕ | Excludepoly |

12/10/2012 3:32:01 PM



Streamstats Ungaged Site Report

Date: Mon Dec 10 2012 15:37:23 Mountain Standard Time

Site Location: Massachusetts

NAD27 Latitude: 42.0171 (42 01 01)

NAD27 Longitude: -71.0070 (-71 00 25)

NAD83 Latitude: 42.0172 (42 01 02)

NAD83 Longitude: -71.0065 (-71 00 23)

ReachCode: 01090004000184

Measure: 17.08

Drainage Area: 50.9 mi2

Low Flows Basin Characteristics			
100% Statewide Low Flow (50.9 mi2)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	50.9	1.61	149
Mean Basin Slope from 250K DEM (percent)	0.73	0.32	24.6
Stratified Drift per Stream Length (square mile per mile)	0.17	0	1.29
Massachusetts Region (dimensionless)	0	0	1

Probability of Perennial Flow Basin Characteristics			
100% Perennial Flow Probability (50.9 mi2)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	50.9 (above max value 1.99)	0.01	1.99
Percent Underlain By Sand And Gravel (percent)	38.54	0	100
Percent Forest (percent)	49.81	0	100
Massachusetts Region (dimensionless)	0	0	1

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Low Flows Streamflow Statistics					
Statistic	Flow (ft ³ /s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
D50	52.6	18		29.2	94.1
D60	40.2	20		19.4	82.8
D70	25.5	23		10.4	61.7
D75	20.2	26		8.21	48.9
D80	12.4	28		3.16	48.1
D85	8.84	32		2.28	33.7
D90	5.57	37		1.4	21.8
D95	3.27	46		0.7	14.8
D98	2.24	60		0.43	11.2
D99	1.73	65		0.3	9.53
M7D2Y	4.38	49		0.86	21.4
AUGD50	10.4	33		2.66	40
M7D10Y	1.44	71		0.24	8.22

The equation for estimating the probability of perennial flow is applicable for most areas of Massachusetts except eastern Buzzards Bay, Cape Cod, and the Island regions. The estimate obtained from the equation assumes natural flow conditions at the site. The equation also is best used for sites with drainage areas between 0.01 to 1.99 mi2, as errors beyond for basins beyond these bounds are unknown.

Probability of Perennial Flow Statistics		
Statistic	Value	Standard Error (percent)
PROBPEREN	1	

Dilution Calculation:

$$DF = (Qd + Qs)/Qd$$

DF = Dilution Factor

Qd = Maximum flow rate of discharge in cubic feet per second (cfs)

Qs = Receiving Water (Town River) 7Q10 flow (cfs)

$$Qd = 50 \text{ gallons per minute (gpm)} \times 0.00223 = 0.111 \text{ cfs}$$

$$Qs = 1.44 \text{ cfs}$$

$$DF = 14.0$$



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW101

Date Sampled: 09/06/11 16:00

Percent Solids: N/A

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-01

Sample Matrix: Ground Water

Units: ug/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (2.5)	7010		1	SVD	09/13/11 16:59	50	25	CI10901
Arsenic	10.9 (2.5)	7010		1	SVD	09/13/11 23:43	50	25	CI10901
Barium	245 (25)	6010B		1	SVD	09/09/11 18:12	50	25	CI10901
Beryllium	ND (0.5)	6010B		1	SVD	09/09/11 18:12	50	25	CI10901
Cadmium	ND (2.5)	6010B		1	SVD	09/09/11 18:12	50	25	CI10901
Chromium	ND (10)	6010B		1	SVD	09/09/11 18:12	50	25	CI10901
Lead	ND (10)	6010B		1	SVD	09/09/11 18:12	50	25	CI10901
Nickel	ND (25)	6010B		1	SVD	09/09/11 18:12	50	25	CI10901
Selenium	ND (25)	6010B		1	SVD	09/09/11 18:12	50	25	CI10901
Silver	ND (5)	6010B		1	SVD	09/09/11 18:12	50	25	CI10901
Thallium	ND (1.5)	7010		1	SVD	09/13/11 19:49	50	25	CI10901
Vanadium	ND (10)	6010B		1	SVD	09/09/11 18:12	50	25	CI10901
Zinc	34 (25)	6010B		1	SVD	09/09/11 18:12	50	25	CI10901



ESS Laboratory
Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW101

Date Sampled: 09/06/11 16:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-01

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,1,1-Trichloroethane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,1,2,2-Tetrachloroethane	ND (0.5)		1	09/08/11 19:22	CUI0037	CI10809
1,1,2-Trichloroethane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,1-Dichloroethane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,1-Dichloroethene	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,1-Dichloropropene	ND (2.0)		1	09/08/11 19:22	CUI0037	CI10809
1,2,3-Trichlorobenzene	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,2,3-Trichloropropane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,2,4-Trichlorobenzene	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,2,4-Trimethylbenzene	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,2-Dibromo-3-Chloropropane	ND (5.0)		1	09/08/11 19:22	CUI0037	CI10809
1,2-Dibromoethane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,2-Dichlorobenzene	1.2 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,2-Dichloroethane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,2-Dichloropropane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,3,5-Trimethylbenzene	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,3-Dichlorobenzene	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,3-Dichloropropane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,4-Dichlorobenzene	1.7 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
1,4-Dioxane - Screen	ND (500)		1	09/08/11 19:22	CUI0037	CI10809
2,2-Dichloropropane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
2-Butanone	ND (10.0)		1	09/08/11 19:22	CUI0037	CI10809
2-Chlorotoluene	1.0 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
2-Hexanone	ND (10.0)		1	09/08/11 19:22	CUI0037	CI10809
4-Chlorotoluene	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
4-Isopropyltoluene	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
4-Methyl-2-Pentanone	ND (10.0)		1	09/08/11 19:22	CUI0037	CI10809
Acetone	ND (10.0)		1	09/08/11 19:22	CUI0037	CI10809
Benzene	12.1 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Bromobenzene	ND (2.0)		1	09/08/11 19:22	CUI0037	CI10809



ESS Laboratory

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BAL Laboratory

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CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW101

Date Sampled: 09/06/11 16:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-01

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Bromodichloromethane	ND (0.6)		1	09/08/11 19:22	CUI0037	CI10809
Bromoform	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Bromomethane	ND (2.0)		1	09/08/11 19:22	CUI0037	CI10809
Carbon Disulfide	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Carbon Tetrachloride	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Chlorobenzene	10.9 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Chloroethane	ND (2.0)		1	09/08/11 19:22	CUI0037	CI10809
Chloroform	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Chloromethane	ND (2.0)		1	09/08/11 19:22	CUI0037	CI10809
cis-1,2-Dichloroethene	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
cis-1,3-Dichloropropene	ND (0.4)		1	09/08/11 19:22	CUI0037	CI10809
Dibromochloromethane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Dibromomethane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Dichlorodifluoromethane	ND (2.0)		1	09/08/11 19:22	CUI0037	CI10809
Diethyl Ether	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Di-isopropyl ether	1.2 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Ethyl tertiary-butyl ether	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Ethylbenzene	1.6 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Hexachlorobutadiene	ND (0.6)		1	09/08/11 19:22	CUI0037	CI10809
Hexachloroethane	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Isopropylbenzene	7.4 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Methyl tert-Butyl Ether	21.0 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Methylene Chloride	ND (2.0)		1	09/08/11 19:22	CUI0037	CI10809
Naphthalene	172 (10.0)		10	09/09/11 13:11	CUI0037	CI10809
n-Butylbenzene	3.7 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
n-Propylbenzene	11.6 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
sec-Butylbenzene	3.4 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Styrene	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809
tert-Butylbenzene	1.9 (1.0)		1	09/08/11 19:22	CUI0037	CI10809
Tertiary-amyl methyl ether	ND (1.0)		1	09/08/11 19:22	CUI0037	CI10809



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CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW101

Date Sampled: 09/06/11 16:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-01

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Tetrachloroethene	ND (1.0)		1	09/08/11 19:22	CUI0037	CH10809
Tetrahydrofuran	ND (5.0)		1	09/08/11 19:22	CUI0037	CH10809
Toluene	ND (1.0)		1	09/08/11 19:22	CUI0037	CH10809
trans-1,2-Dichloroethene	ND (1.0)		1	09/08/11 19:22	CUI0037	CH10809
trans-1,3-Dichloropropene	ND (0.4)		1	09/08/11 19:22	CUI0037	CH10809
Trichloroethene	ND (1.0)		1	09/08/11 19:22	CUI0037	CH10809
Trichlorofluoromethane	ND (1.0)		1	09/08/11 19:22	CUI0037	CH10809
Vinyl Chloride	ND (1.0)		1	09/08/11 19:22	CUI0037	CH10809
Xylene O	ND (1.0)		1	09/08/11 19:22	CUI0037	CH10809
Xylene P,M	ND (2.0)		1	09/08/11 19:22	CUI0037	CH10809
Xylenes (Total)	ND (3.0)		1	09/08/11 19:22		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	90 %		70-130
Surrogate: 4-Bromofluorobenzene	110 %		70-130
Surrogate: Dibromofluoromethane	92 %		70-130
Surrogate: Toluene-d8	104 %		70-130



ESS Laboratory

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CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW101

Date Sampled: 09/06/11 16:00

Percent Solids: N/A

Initial Volume: 1000

Final Volume: 1

Extraction Method: 3510C

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-01

Sample Matrix: Ground Water

Units: ug/L

Analyst: IBM

Prepared: 9/8/11 13:00

MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons

<u>Analvte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (100)		1	09/09/11 8:03	CUI0055	CI10817
C19-C36 Aliphatics1	ND (100)		1	09/09/11 8:03	CUI0055	CI10817
C11-C22 Unadjusted Aromatics1	174 (100)		1	09/08/11 21:08	CUI0052	CI10817
C11-C22 Aromatics1,2	120 (100)			09/09/11 12:42		[CALC]
2-Methylnaphthalene	21.0 (0.50)		1	09/09/11 12:42	CUI0051	CI10817
Acenaphthene	0.21 (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Naphthalene	32.0 (0.50)		1	09/09/11 12:42	CUI0051	CI10817
Phenanthrene	ND (0.50)		1	09/09/11 12:42	CUI0051	CI10817
Acenaphthylene	ND (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Anthracene	ND (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Benzo(a)anthracene	ND (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Benzo(a)pyrene	ND (0.10)		1	09/09/11 12:42	CUI0051	CI10817
Benzo(b)fluoranthene	ND (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Benzo(g,h,i)perylene	ND (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Benzo(k)fluoranthene	ND (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Chrysene	ND (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Dibenzo(a,h)Anthracene	ND (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Fluoranthene	ND (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Fluorene	0.24 (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Indeno(1,2,3-cd)Pyrene	ND (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Pyrene	ND (0.20)		1	09/09/11 12:42	CUI0051	CI10817
Preservative:	pH <= 2					CI10817

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1-Chlorooctadecane	80 %		40-140
Surrogate: 2-Bromonaphthalene	86 %		40-140
Surrogate: 2-Fluorobiphenyl	91 %		40-140
Surrogate: O-Terphenyl	72 %		40-140



ESS Laboratory

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BAL Laboratory

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of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW101

Date Sampled: 09/06/11 16:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-01

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C10 Aromatics	254 (100)		1	09/14/11 15:26	CUI0091	CI11409
C5-C8 Aliphatics1,2	ND (150)		1	09/14/11 15:26		[CALC]
C9-C12 Aliphatics2,3	201 (150)		1	09/14/11 15:26		[CALC]
Preservative:	pH <= 2					CI11409

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	100 %		70-130
Surrogate: 2,5-Dibromotoluene - PID	96 %		70-130



ESS Laboratory

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of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW102

Date Sampled: 09/06/11 15:05

Percent Solids: N/A

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-02

Sample Matrix: Ground Water

Units: ug/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analvte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analvst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (2.5)	7010		1	SVD	09/13/11 17:04	50	25	CI10901
Arsenic	60 (25)	6010B		1	SVD	09/09/11 18:17	50	25	CI10901
Barium	67 (25)	6010B		1	SVD	09/09/11 18:17	50	25	CI10901
Beryllium	ND (0.5)	6010B		1	SVD	09/09/11 18:17	50	25	CI10901
Cadmium	ND (2.5)	6010B		1	SVD	09/09/11 18:17	50	25	CI10901
Chromium	ND (10)	6010B		1	SVD	09/09/11 18:17	50	25	CI10901
Lead	ND (10)	6010B		1	SVD	09/09/11 18:17	50	25	CI10901
Nickel	ND (25)	6010B		1	SVD	09/09/11 18:17	50	25	CI10901
Selenium	ND (25)	6010B		1	SVD	09/09/11 18:17	50	25	CI10901
Silver	ND (5)	6010B		1	SVD	09/09/11 18:17	50	25	CI10901
Thallium	ND (1.5)	7010		1	SVD	09/13/11 19:56	50	25	CI10901
Vanadium	ND (10)	6010B		1	SVD	09/09/11 18:17	50	25	CI10901
Zinc	ND (25)	6010B		1	SVD	09/09/11 18:17	50	25	CI10901



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW102

Date Sampled: 09/06/11 15:05

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-02

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,1,1-Trichloroethane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,1,2,2-Tetrachloroethane	ND (0.5)		1	09/08/11 17:46	CUI0037	CI10809
1,1,2-Trichloroethane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,1-Dichloroethane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,1-Dichloroethene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,1-Dichloropropene	ND (2.0)		1	09/08/11 17:46	CUI0037	CI10809
1,2,3-Trichlorobenzene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,2,3-Trichloropropane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,2,4-Trichlorobenzene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,2,4-Trimethylbenzene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,2-Dibromo-3-Chloropropane	ND (5.0)		1	09/08/11 17:46	CUI0037	CI10809
1,2-Dibromoethane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,2-Dichlorobenzene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,2-Dichloroethane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,2-Dichloropropane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,3,5-Trimethylbenzene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,3-Dichlorobenzene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,3-Dichloropropane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,4-Dichlorobenzene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
1,4-Dioxane - Screen	ND (500)		1	09/08/11 17:46	CUI0037	CI10809
2,2-Dichloropropane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
2-Butanone	ND (10.0)		1	09/08/11 17:46	CUI0037	CI10809
2-Chlorotoluene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
2-Hexanone	ND (10.0)		1	09/08/11 17:46	CUI0037	CI10809
4-Chlorotoluene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
4-Isopropyltoluene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
4-Methyl-2-Pentanone	ND (10.0)		1	09/08/11 17:46	CUI0037	CI10809
Acetone	ND (10.0)		1	09/08/11 17:46	CUI0037	CI10809
Benzene	5.2 (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Bromobenzene	ND (2.0)		1	09/08/11 17:46	CUI0037	CI10809



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW102

Date Sampled: 09/06/11 15:05

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-02

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Bromodichloromethane	ND (0.6)		1	09/08/11 17:46	CUI0037	CI10809
Bromoform	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Bromomethane	ND (2.0)		1	09/08/11 17:46	CUI0037	CI10809
Carbon Disulfide	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Carbon Tetrachloride	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Chlorobenzene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Chloroethane	ND (2.0)		1	09/08/11 17:46	CUI0037	CI10809
Chloroform	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Chloromethane	ND (2.0)		1	09/08/11 17:46	CUI0037	CI10809
cis-1,2-Dichloroethene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
cis-1,3-Dichloropropene	ND (0.4)		1	09/08/11 17:46	CUI0037	CI10809
Dibromochloromethane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Dibromomethane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Dichlorodifluoromethane	ND (2.0)		1	09/08/11 17:46	CUI0037	CI10809
Diethyl Ether	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Di-isopropyl ether	5.8 (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Ethyl tertiary-butyl ether	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Ethylbenzene	2.0 (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Hexachlorobutadiene	ND (0.6)		1	09/08/11 17:46	CUI0037	CI10809
Hexachloroethane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Isopropylbenzene	2.8 (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Methyl tert-Butyl Ether	18.8 (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Methylene Chloride	ND (2.0)		1	09/08/11 17:46	CUI0037	CI10809
Naphthalene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
n-Butylbenzene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
n-Propylbenzene	4.8 (1.0)		1	09/08/11 17:46	CUI0037	CI10809
sec-Butylbenzene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Styrene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
tert-Butylbenzene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Tertiary-amyl methyl ether	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW102

Date Sampled: 09/06/11 15:05

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-02

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrachloroethene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Tetrahydrofuran	ND (5.0)		1	09/08/11 17:46	CUI0037	CI10809
Toluene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
trans-1,2-Dichloroethene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
trans-1,3-Dichloropropene	ND (0.4)		1	09/08/11 17:46	CUI0037	CI10809
Trichloroethene	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Trichlorofluoromethane	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Vinyl Chloride	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Xylene O	ND (1.0)		1	09/08/11 17:46	CUI0037	CI10809
Xylene P,M	4.2 (2.0)		1	09/08/11 17:46	CUI0037	CI10809
Xylenes (Total)	4.2 (3.0)		1	09/08/11 17:46		[CALC]

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichloroethane-d4	90 %		70-130
Surrogate: 4-Bromofluorobenzene	107 %		70-130
Surrogate: Dibromofluoromethane	92 %		70-130
Surrogate: Toluene-d8	103 %		70-130



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW102

Date Sampled: 09/06/11 15:05

Percent Solids: N/A

Initial Volume: 1000

Final Volume: 1

Extraction Method: 3510C

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-02

Sample Matrix: Ground Water

Units: ug/L

Analyst: IBM

Prepared: 9/8/11 13:00

MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (100)		1	09/09/11 8:54	CUI0055	CI10817
C19-C36 Aliphatics1	ND (100)		1	09/09/11 8:54	CUI0055	CI10817
C11-C22 Unadjusted Aromatics1	ND (100)		1	09/08/11 21:55	CUI0052	CI10817
C11-C22 Aromatics1,2	ND (100)			09/09/11 13:27		[CALC]
2-Methylnaphthalene	ND (0.50)		1	09/09/11 13:27	CUI0051	CI10817
Acenaphthene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Naphthalene	ND (0.50)		1	09/09/11 13:27	CUI0051	CI10817
Phenanthrene	ND (0.50)		1	09/09/11 13:27	CUI0051	CI10817
Acenaphthylene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Anthracene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Benzo(a)anthracene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Benzo(a)pyrene	ND (0.10)		1	09/09/11 13:27	CUI0051	CI10817
Benzo(b)fluoranthene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Benzo(g,h,i)perylene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Benzo(k)fluoranthene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Chrysene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Dibenzo(a,h)Anthracene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Fluoranthene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Fluorene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Indeno(1,2,3-cd)Pyrene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Pyrene	ND (0.20)		1	09/09/11 13:27	CUI0051	CI10817
Preservative:	pH <= 2					CI10817

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	78 %		40-140
Surrogate: 2-Bromonaphthalene	100 %		40-140
Surrogate: 2-Fluorobiphenyl	92 %		40-140
Surrogate: O-Terphenyl	73 %		40-140



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW102

Date Sampled: 09/06/11 15:05

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-02

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C10 Aromatics	ND (100)		1	09/13/11 17:17	CUI0075	CI11317
C5-C8 Aliphatics ^{1,2}	257 (150)		1	09/13/11 17:17		[CALC]
C9-C12 Aliphatics ^{2,3}	ND (150)		1	09/13/11 17:17		[CALC]
Preservative:	pH <= 2					CI11317

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	112 %		70-130
Surrogate: 2,5-Dibromotoluene - PID	111 %		70-130



ESS Laboratory

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BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW103

Date Sampled: 09/06/11 17:25

Percent Solids: N/A

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-03

Sample Matrix: Ground Water

Units: ug/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (2.5)	7010		1	SVD	09/13/11 17:10	50	25	CI10901
Arsenic	ND (2.5)	7010		1	SVD	09/14/11 0:02	50	25	CI10901
Barium	43 (25)	6010B		1	SVD	09/09/11 18:22	50	25	CI10901
Beryllium	ND (0.5)	6010B		1	SVD	09/09/11 18:22	50	25	CI10901
Cadmium	ND (2.5)	6010B		1	SVD	09/09/11 18:22	50	25	CI10901
Chromium	ND (10)	6010B		1	SVD	09/09/11 18:22	50	25	CI10901
Lead	ND (10)	6010B		1	SVD	09/09/11 18:22	50	25	CI10901
Nickel	ND (25)	6010B		1	SVD	09/09/11 18:22	50	25	CI10901
Selenium	ND (25)	6010B		1	SVD	09/09/11 18:22	50	25	CI10901
Silver	ND (5)	6010B		1	SVD	09/09/11 18:22	50	25	CI10901
Thallium	ND (1.5)	7010		1	SVD	09/13/11 20:02	50	25	CI10901
Vanadium	ND (10)	6010B		1	SVD	09/09/11 18:22	50	25	CI10901
Zinc	ND (25)	6010B		1	SVD	09/09/11 18:22	50	25	CI10901



ESS Laboratory

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BAL Laboratory

The Microbiology Division
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CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW103

Date Sampled: 09/06/11 17:25

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-03

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,1,1-Trichloroethane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,1,2,2-Tetrachloroethane	ND (0.5)		1	09/08/11 18:18	CUI0037	CI10809
1,1,2-Trichloroethane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,1-Dichloroethane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,1-Dichloroethene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,1-Dichloropropene	ND (2.0)		1	09/08/11 18:18	CUI0037	CI10809
1,2,3-Trichlorobenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,2,3-Trichloropropane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,2,4-Trichlorobenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,2,4-Trimethylbenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,2-Dibromo-3-Chloropropane	ND (5.0)		1	09/08/11 18:18	CUI0037	CI10809
1,2-Dibromoethane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,2-Dichlorobenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,2-Dichloroethane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,2-Dichloropropane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,3,5-Trimethylbenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,3-Dichlorobenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,3-Dichloropropane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,4-Dichlorobenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
1,4-Dioxane - Screen	ND (500)		1	09/08/11 18:18	CUI0037	CI10809
2,2-Dichloropropane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
2-Butanone	ND (10.0)		1	09/08/11 18:18	CUI0037	CI10809
2-Chlorotoluene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
2-Hexanone	ND (10.0)		1	09/08/11 18:18	CUI0037	CI10809
4-Chlorotoluene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
4-Isopropyltoluene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
4-Methyl-2-Pentanone	ND (10.0)		1	09/08/11 18:18	CUI0037	CI10809
Acetone	ND (10.0)		1	09/08/11 18:18	CUI0037	CI10809
Benzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Bromobenzene	ND (2.0)		1	09/08/11 18:18	CUI0037	CI10809



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW103

Date Sampled: 09/06/11 17:25

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-03

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Bromodichloromethane	ND (0.6)		1	09/08/11 18:18	CUI0037	CI10809
Bromoform	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Bromomethane	ND (2.0)		1	09/08/11 18:18	CUI0037	CI10809
Carbon Disulfide	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Carbon Tetrachloride	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Chlorobenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Chloroethane	ND (2.0)		1	09/08/11 18:18	CUI0037	CI10809
Chloroform	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Chloromethane	ND (2.0)		1	09/08/11 18:18	CUI0037	CI10809
cis-1,2-Dichloroethene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
cis-1,3-Dichloropropene	ND (0.4)		1	09/08/11 18:18	CUI0037	CI10809
Dibromochloromethane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Dibromomethane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Dichlorodifluoromethane	ND (2.0)		1	09/08/11 18:18	CUI0037	CI10809
Diethyl Ether	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Di-isopropyl ether	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Ethyl tertiary-butyl ether	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Ethylbenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Hexachlorobutadiene	ND (0.6)		1	09/08/11 18:18	CUI0037	CI10809
Hexachloroethane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Isopropylbenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Methyl tert-Butyl Ether	5.8 (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Methylene Chloride	ND (2.0)		1	09/08/11 18:18	CUI0037	CI10809
Naphthalene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
n-Butylbenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
n-Propylbenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
sec-Butylbenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Styrene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
tert-Butylbenzene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Tertiary-amyl methyl ether	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW103

Date Sampled: 09/06/11 17:25

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-03

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Tetrachloroethene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Tetrahydrofuran	ND (5.0)		1	09/08/11 18:18	CUI0037	CI10809
Toluene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
trans-1,2-Dichloroethene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
trans-1,3-Dichloropropene	ND (0.4)		1	09/08/11 18:18	CUI0037	CI10809
Trichloroethene	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Trichlorofluoromethane	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Vinyl Chloride	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Xylene O	ND (1.0)		1	09/08/11 18:18	CUI0037	CI10809
Xylene P,M	ND (2.0)		1	09/08/11 18:18	CUI0037	CI10809
Xylenes (Total)	ND (3.0)		1	09/08/11 18:18		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	89 %		70-130
Surrogate: 4-Bromofluorobenzene	101 %		70-130
Surrogate: Dibromofluoromethane	92 %		70-130
Surrogate: Toluene-d8	99 %		70-130



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW103

Date Sampled: 09/06/11 17:25

Percent Solids: N/A

Initial Volume: 1000

Final Volume: 1

Extraction Method: 3510C

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-03

Sample Matrix: Ground Water

Units: ug/L

Analyst: IBM

Prepared: 9/8/11 13:00

MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (100)		1	09/09/11 9:45	CUI0055	CI10817
C19-C36 Aliphatics1	ND (100)		1	09/09/11 9:45	CUI0055	CI10817
C11-C22 Unadjusted Aromatics1	ND (100)		1	09/08/11 22:42	CUI0052	CI10817
C11-C22 Aromatics1,2	ND (100)			09/09/11 14:12		[CALC]
2-Methylnaphthalene	ND (0.50)		1	09/09/11 14:12	CUI0051	CI10817
Acenaphthene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Naphthalene	0.53 (0.50)		1	09/09/11 14:12	CUI0051	CI10817
Phenanthrene	ND (0.50)		1	09/09/11 14:12	CUI0051	CI10817
Acenaphthylene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Anthracene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Benzo(a)anthracene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Benzo(a)pyrene	ND (0.10)		1	09/09/11 14:12	CUI0051	CI10817
Benzo(b)fluoranthene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Benzo(g,h,i)perylene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Benzo(k)fluoranthene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Chrysene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Dibenzo(a,h)Anthracene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Fluoranthene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Fluorene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Indeno(1,2,3-cd)Pyrene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Pyrene	ND (0.20)		1	09/09/11 14:12	CUI0051	CI10817
Preservative:	pH <= 2					CI10817

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	80 %		40-140
Surrogate: 2-Bromonaphthalene	94 %		40-140
Surrogate: 2-Fluorobiphenyl	90 %		40-140
Surrogate: O-Terphenyl	76 %		40-140



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW103

Date Sampled: 09/06/11 17:25

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-03

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C10 Aromatics	ND (100)		1	09/13/11 17:51	CU10075	CI11317
C5-C8 Aliphatics1,2	ND (150)		1	09/13/11 17:51		[CALC]
C9-C12 Aliphatics2,3	ND (150)		1	09/13/11 17:51		[CALC]
Preservative:	pH <= 2					CI11317

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	119 %		70-130
Surrogate: 2,5-Dibromotoluene - PID	119 %		70-130



ESS Laboratory

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BAL Laboratory

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of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW104

Date Sampled: 09/06/11 16:50

Percent Solids: N/A

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-04

Sample Matrix: Ground Water

Units: ug/L

3005A/3020A/6000/7000 Dissolved Metals

Analyte	Results (MRL)	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.5)	7010		1	SVD	09/13/11 17:15	50	25	CI10901
Arsenic	22.9 (2.5)	7010		1	SVD	09/14/11 0:08	50	25	CI10901
Barium	34 (25)	6010B		1	SVD	09/09/11 18:26	50	25	CI10901
Beryllium	ND (0.5)	6010B		1	SVD	09/09/11 18:26	50	25	CI10901
Cadmium	ND (2.5)	6010B		1	SVD	09/09/11 18:26	50	25	CI10901
Chromium	ND (10)	6010B		1	SVD	09/09/11 18:26	50	25	CI10901
Lead	ND (10)	6010B		1	SVD	09/09/11 18:26	50	25	CI10901
Nickel	ND (25)	6010B		1	SVD	09/09/11 18:26	50	25	CI10901
Selenium	ND (25)	6010B		1	SVD	09/09/11 18:26	50	25	CI10901
Silver	ND (5)	6010B		1	SVD	09/09/11 18:26	50	25	CI10901
Thallium	ND (1.5)	7010		1	SVD	09/13/11 20:07	50	25	CI10901
Vanadium	ND (10)	6010B		1	SVD	09/09/11 18:26	50	25	CI10901
Zinc	ND (25)	6010B		1	SVD	09/09/11 18:26	50	25	CI10901



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CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW104

Date Sampled: 09/06/11 16:50

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-04

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,1,1-Trichloroethane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,1,2,2-Tetrachloroethane	ND (0.5)		1	09/08/11 18:50	CUI0037	CI10809
1,1,2-Trichloroethane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,1-Dichloroethane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,1-Dichloroethene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,1-Dichloropropene	ND (2.0)		1	09/08/11 18:50	CUI0037	CI10809
1,2,3-Trichlorobenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,2,3-Trichloropropane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,2,4-Trichlorobenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,2,4-Trimethylbenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,2-Dibromo-3-Chloropropane	ND (5.0)		1	09/08/11 18:50	CUI0037	CI10809
1,2-Dibromoethane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,2-Dichlorobenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,2-Dichloroethane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,2-Dichloropropane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,3,5-Trimethylbenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,3-Dichlorobenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,3-Dichloropropane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,4-Dichlorobenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
1,4-Dioxane - Screen	ND (500)		1	09/08/11 18:50	CUI0037	CI10809
2,2-Dichloropropane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
2-Butanone	ND (10.0)		1	09/08/11 18:50	CUI0037	CI10809
2-Chlorotoluene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
2-Hexanone	ND (10.0)		1	09/08/11 18:50	CUI0037	CI10809
4-Chlorotoluene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
4-Isopropyltoluene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
4-Methyl-2-Pentanone	ND (10.0)		1	09/08/11 18:50	CUI0037	CI10809
Acetone	ND (10.0)		1	09/08/11 18:50	CUI0037	CI10809
Benzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Bromobenzene	ND (2.0)		1	09/08/11 18:50	CUI0037	CI10809



ESS Laboratory

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BAL Laboratory

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of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW104

Date Sampled: 09/06/11 16:50

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-04

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Bromodichloromethane	ND (0.6)		1	09/08/11 18:50	CUI0037	CI10809
Bromoform	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Bromomethane	ND (2.0)		1	09/08/11 18:50	CUI0037	CI10809
Carbon Disulfide	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Carbon Tetrachloride	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Chlorobenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Chloroethane	ND (2.0)		1	09/08/11 18:50	CUI0037	CI10809
Chloroform	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Chloromethane	ND (2.0)		1	09/08/11 18:50	CUI0037	CI10809
cis-1,2-Dichloroethene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
cis-1,3-Dichloropropene	ND (0.4)		1	09/08/11 18:50	CUI0037	CI10809
Dibromochloromethane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Dibromomethane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Dichlorodifluoromethane	ND (2.0)		1	09/08/11 18:50	CUI0037	CI10809
Diethyl Ether	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Di-isopropyl ether	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Ethyl tertiary-butyl ether	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Ethylbenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Hexachlorobutadiene	ND (0.6)		1	09/08/11 18:50	CUI0037	CI10809
Hexachloroethane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Isopropylbenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Methyl tert-Butyl Ether	11.6 (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Methylene Chloride	ND (2.0)		1	09/08/11 18:50	CUI0037	CI10809
Naphthalene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
n-Butylbenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
n-Propylbenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
sec-Butylbenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Styrene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
tert-Butylbenzene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Tertiary-amyl methyl ether	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809



ESS Laboratory

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CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW104

Date Sampled: 09/06/11 16:50

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-04

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Tetrachloroethene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Tetrahydrofuran	ND (5.0)		1	09/08/11 18:50	CUI0037	CI10809
Toluene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
trans-1,2-Dichloroethene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
trans-1,3-Dichloropropene	ND (0.4)		1	09/08/11 18:50	CUI0037	CI10809
Trichloroethene	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Trichlorofluoromethane	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Vinyl Chloride	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Xylene O	ND (1.0)		1	09/08/11 18:50	CUI0037	CI10809
Xylene P,M	ND (2.0)		1	09/08/11 18:50	CUI0037	CI10809
Xylenes (Total)	ND (3.0)		1	09/08/11 18:50		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	86 %		70-130
Surrogate: 4-Bromofluorobenzene	106 %		70-130
Surrogate: Dibromofluoromethane	90 %		70-130
Surrogate: Toluene-d8	102 %		70-130



ESS Laboratory

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BAL Laboratory

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CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW104

Date Sampled: 09/06/11 16:50

Percent Solids: N/A

Initial Volume: 1000

Final Volume: 1

Extraction Method: 3510C

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-04

Sample Matrix: Ground Water

Units: ug/L

Analyst: IBM

Prepared: 9/8/11 13:00

MADEP-EPH-04-1.1/8270D Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (100)		1	09/09/11 10:36	CUI0055	CI10817
C19-C36 Aliphatics1	ND (100)		1	09/09/11 10:36	CUI0055	CI10817
C11-C22 Unadjusted Aromatics1	ND (100)		1	09/08/11 23:29	CUI0052	CI10817
C11-C22 Aromatics1,2	ND (100)			09/09/11 14:58		[CALC]
2-Methylnaphthalene	ND (0.50)		1	09/09/11 14:58	CUI0051	CI10817
Acenaphthene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Naphthalene	ND (0.50)		1	09/09/11 14:58	CUI0051	CI10817
Phenanthrene	ND (0.50)		1	09/09/11 14:58	CUI0051	CI10817
Acenaphthylene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Anthracene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Benzo(a)anthracene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Benzo(a)pyrene	ND (0.10)		1	09/09/11 14:58	CUI0051	CI10817
Benzo(b)fluoranthene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Benzo(g,h,i)perylene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Benzo(k)fluoranthene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Chrysene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Dibenzo(a,h)Anthracene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Fluoranthene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Fluorene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Indeno(1,2,3-cd)Pyrene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Pyrene	ND (0.20)		1	09/09/11 14:58	CUI0051	CI10817
Preservative:	pH <= 2					CI10817

	%Recovery	Qualifier	Limits
Surrogate: 1-Chlorooctadecane	88 %		40-140
Surrogate: 2-Bromonaphthalene	104 %		40-140
Surrogate: 2-Fluorobiphenyl	95 %		40-140
Surrogate: O-Terphenyl	80 %		40-140



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

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of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: TW104

Date Sampled: 09/06/11 16:50

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-04

Sample Matrix: Ground Water

Units: ug/L

Analyst: MD

MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
C9-C10 Aromatics	ND (100)		1	09/13/11 18:26	CUI0075	CI11317
C5-C8 Aliphatics1,2	ND (150)		1	09/13/11 18:26		[CALC]
C9-C12 Aliphatics2,3	ND (150)		1	09/13/11 18:26		[CALC]
Preservative:	pH <= 2					CI11317

	%Recovery	Qualifier	Limits
Surrogate: 2,5-Dibromotoluene - FID	125 %		70-130
Surrogate: 2,5-Dibromotoluene - PID	124 %		70-130



ESS Laboratory

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CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: Trip Blank

Date Sampled: 09/06/11 00:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-05

Sample Matrix: Aqueous

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,1,1-Trichloroethane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,1,2,2-Tetrachloroethane	ND (0.5)		1	09/08/11 15:06	CUI0037	CI10809
1,1,2-Trichloroethane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,1-Dichloroethane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,1-Dichloroethene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,1-Dichloropropene	ND (2.0)		1	09/08/11 15:06	CUI0037	CI10809
1,2,3-Trichlorobenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,2,3-Trichloropropane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,2,4-Trichlorobenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,2,4-Trimethylbenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,2-Dibromo-3-Chloropropane	ND (5.0)		1	09/08/11 15:06	CUI0037	CI10809
1,2-Dibromoethane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,2-Dichlorobenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,2-Dichloroethane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,2-Dichloropropane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,3,5-Trimethylbenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,3-Dichlorobenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,3-Dichloropropane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,4-Dichlorobenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
1,4-Dioxane - Screen	ND (500)		1	09/08/11 15:06	CUI0037	CI10809
2,2-Dichloropropane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
2-Butanone	ND (10.0)		1	09/08/11 15:06	CUI0037	CI10809
2-Chlorotoluene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
2-Hexanone	ND (10.0)		1	09/08/11 15:06	CUI0037	CI10809
4-Chlorotoluene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
4-Isopropyltoluene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
4-Methyl-2-Pentanone	ND (10.0)		1	09/08/11 15:06	CUI0037	CI10809
Acetone	ND (10.0)		1	09/08/11 15:06	CUI0037	CI10809
Benzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Bromobenzene	ND (2.0)		1	09/08/11 15:06	CUI0037	CI10809



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: Trip Blank

Date Sampled: 09/06/11 00:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-05

Sample Matrix: Aqueous

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Bromodichloromethane	ND (0.6)		1	09/08/11 15:06	CUI0037	CI10809
Bromoform	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Bromomethane	ND (2.0)		1	09/08/11 15:06	CUI0037	CI10809
Carbon Disulfide	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Carbon Tetrachloride	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Chlorobenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Chloroethane	ND (2.0)		1	09/08/11 15:06	CUI0037	CI10809
Chloroform	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Chloromethane	ND (2.0)		1	09/08/11 15:06	CUI0037	CI10809
cis-1,2-Dichloroethene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
cis-1,3-Dichloropropene	ND (0.4)		1	09/08/11 15:06	CUI0037	CI10809
Dibromochloromethane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Dibromomethane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Dichlorodifluoromethane	ND (2.0)		1	09/08/11 15:06	CUI0037	CI10809
Diethyl Ether	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Di-isopropyl ether	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Ethyl tertiary-butyl ether	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Ethylbenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Hexachlorobutadiene	ND (0.6)		1	09/08/11 15:06	CUI0037	CI10809
Hexachloroethane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Isopropylbenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Methyl tert-Butyl Ether	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Methylene Chloride	ND (2.0)		1	09/08/11 15:06	CUI0037	CI10809
Naphthalene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
n-Butylbenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
n-Propylbenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
sec-Butylbenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Styrene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
tert-Butylbenzene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Tertiary-amyl methyl ether	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division
of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Ransom Environmental Consultants, Inc.

Client Project ID: CVS - W. Bridgewater

Client Sample ID: Trip Blank

Date Sampled: 09/06/11 00:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-05

Sample Matrix: Aqueous

Units: ug/L

Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
Tetrachloroethene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Tetrahydrofuran	ND (5.0)		1	09/08/11 15:06	CUI0037	CI10809
Toluene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
trans-1,2-Dichloroethene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
trans-1,3-Dichloropropene	ND (0.4)		1	09/08/11 15:06	CUI0037	CI10809
Trichloroethene	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Trichlorofluoromethane	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Vinyl Chloride	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Xylene O	ND (1.0)		1	09/08/11 15:06	CUI0037	CI10809
Xylene P,M	ND (2.0)		1	09/08/11 15:06	CUI0037	CI10809
Xylenes (Total)	ND (3.0)		1	09/08/11 15:06		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	88 %		70-130
Surrogate: 4-Bromofluorobenzene	102 %		70-130
Surrogate: Dibromofluoromethane	92 %		70-130
Surrogate: Toluene-d8	103 %		70-130



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Client Sample ID: Trip Blank

Date Sampled: 09/06/11 00:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 5

Extraction Method: 5030B

ESS Laboratory Work Order: 1109075

ESS Laboratory Sample ID: 1109075-05

Sample Matrix: Aqueous

Units: ug/L

Analyst: MD

MADEP-VPH-04-1.1 Volatile Petroleum Hydrocarbon

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C10 Aromatics	ND (100)		1	09/13/11 13:50	CUI0075	CH11317
C5-C8 Aliphatics ^{1,2}	ND (200)		1	09/13/11 13:50		[CALC]
C9-C12 Aliphatics ^{2,3}	ND (200)		1	09/13/11 13:50		[CALC]

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 2,5-Dibromotoluene - FID	118 %		70-130
Surrogate: 2,5-Dibromotoluene - PID	118 %		70-130