

<b>PROJECT PHASE</b> (check one)	<b>SUBMITTAL TYPE</b> (check one)
<input type="checkbox"/> Site Investigation <input type="checkbox"/> Corrective Action Feasibility Investigation <input type="checkbox"/> Corrective Action Plan <input type="checkbox"/> Corrective Action Summary Report <input checked="" type="checkbox"/> <b>Operations &amp; Monitoring Report</b>	<input type="checkbox"/> Work Scope <input checked="" type="checkbox"/> <b>Technical Report</b> <input type="checkbox"/> PCF Reimbursement Request <input type="checkbox"/> General Correspondence

**SEPTEMBER 2011 POET SYSTEM SUMMARY REPORT**  
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**  
**5700 ROUTE 100**  
**LONDONDERRY, VERMONT**  
**SMS #1996-2015**

Prepared for:

Summit Distributing, LLC  
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October 25, 2011

GeoInsight Project 5599-000  
 File: 5599/CVR



# GeoInsight®

Environmental Strategy & Engineering

*Practical in Nature*

October 25, 2011

GeoInsight Project 5599-000

Timothy Cropley  
Sites Management Section  
Vermont Department of Environmental Conservation  
103 South Main Street, West Building  
Waterbury, Vermont 05671

RE: September 2011 POET System Summary Report  
Londonderry Citgo/Londonderry Shopping Center  
5700 Route 100  
Londonderry, Vermont  
**SMS #1996-2015**

Dear Mr. Cropley:

At the request of Summit Distributing, LLC (Summit), GeoInsight, Inc. (GeoInsight) prepared this report to summarize the September 2011 supply well, point-of-entry treatment (POET) system monitoring event performed at the Londonderry Citgo/Londonderry Shopping Center property (the site) located at 5700 Route 100 in Londonderry, Vermont. A site locus is presented as Figure 1 and a site plan is presented as Figure 2.

The activities summarized herein were approved by the Vermont Department of Environmental Conservation (VTDEC) in an email dated September 22, 2011 (Attachment A).

## **POET SYSTEM MONITORING EVENT**

### **POET System Sampling and Analysis**

During the September 22, 2011 sampling event, the POET system serving the supply well located at the site was sampled. Numerous attempts were made to contact Roger Thorne-Thomsen prior to the sampling event and by checking (for possible tenants) at the residence on September 22, 2011. However, GeoInsight was not able to contact Mr. Thorne-Thomsen or otherwise gain access to this residence and as a result, a supply well sample was not collected from the Thorne-Thomsen POET system during the monitoring event.

The water samples collected from the site POET system were submitted to Absolute Resource Associates, LLC (ARA) of Portsmouth, New Hampshire and were analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260B and reported as the VTDEC 8021 list of compounds. Note that due to an error in

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completing the chain of custody, samples were submitted for analysis of VOCs via USEPA Method 8260B instead of USEPA Method 524.2 during this sampling round. Future POET system samples will be submitted for analysis of VOCs by USEPA Method 524.2 for upcoming monitoring events.

The September 2011 POET system sampling data are summarized in Table 1. Table 2 provides a summary of recent and historical POET system influent sample data collected at the site and Thorne-Thomsen residence. The September 2011 POET system analytical report is presented in Attachment B.

### **POET System Sampling Results**

During the September 22, 2011, VOCs were not detected above laboratory practical quantitation limits (PQLs) in the samples collected from the site system influent ("Shopping Center INF"), effluent ("Shopping Center EFF") and mid-point samples (designated "Shopping Center MID-D" and "Shopping Center MID-G").

GeoInsight transmitted the results of the September 2011 POET system sampling to the property owner and the POET system operator, John Beauchamp of the Vermont Water Treatment Company, in a letter dated October 14, 2011. A copy of the POET system results letter is included in Attachment C.

### **Quality Assurance/Quality Control**

A trip blank sample was included by the laboratory with the sample container for the September 22, 2011 monitoring event and VOCs were not detected above the laboratory PQLs in the trip blank sample. The trip blank sample was comprised of a laboratory-prepared VOC vial containing deionized water, which accompanied the sample containers in a cooler from delivery from the laboratory through receipt by the laboratory.

GeoInsight also reviewed the surrogate recovery data reported by the laboratory for the samples collected during the September 2011 monitoring event, which were within the acceptable limits listed by the laboratory in the analytical reports.

With respect to the analysis being performed by USEPA Method 8260B instead of Method 524.2, laboratory PQLs for target petroleum compounds under the 8260B analysis were below the applicable drinking water standards. Therefore, the 8260B data is considered valid and useable.

The quality assurance/quality control (QA/QC) samples indicated that the data collected were technically sound, usable, and meet the data quality objectives of on-going site investigation activities. A summary of QA/QC sample data is provided in Table 1.



## CONCLUSIONS AND RECOMMENDATIONS

Based upon the recent trend of decreasing VOCs in supply well samples collected, the site appears to be approaching conditions that may allow for site closure in the near future. However, because of the historical detection of VOCs above laboratory PQLs in the Shopping Center and Thorne-Thomsen POET systems, a bi-annual POET system sampling program now appears warranted. The next POET system monitoring event should occur in March 2012. Annual monitoring of the remaining four monitoring wells located at the site will also occur during the March 2012 sampling event.

If you have questions regarding the contents of this letter report, please call us at (603) 314-0820.

Sincerely,  
GEOINSIGHT, INC.

Eric D. Johnson  
Project Geologist

Darrin L. Santos, P.G.  
Senior Geologist

Attachments

cc: Summit

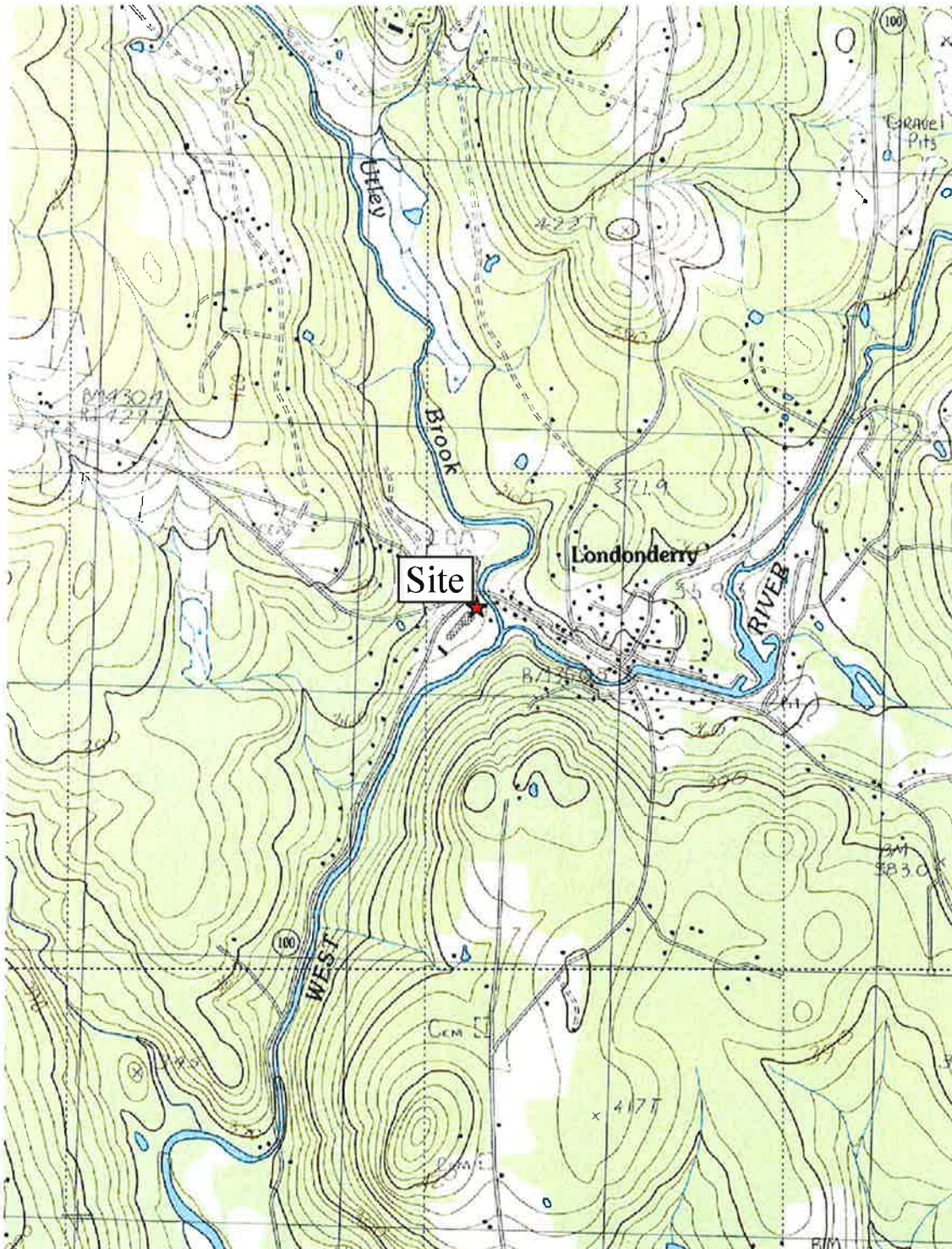
P:\5599 Summit Londonderry VT\Monitoring\2011\Sept 2011\5599Sept2011GWreport.doc



## FIGURES

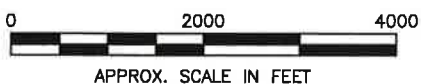





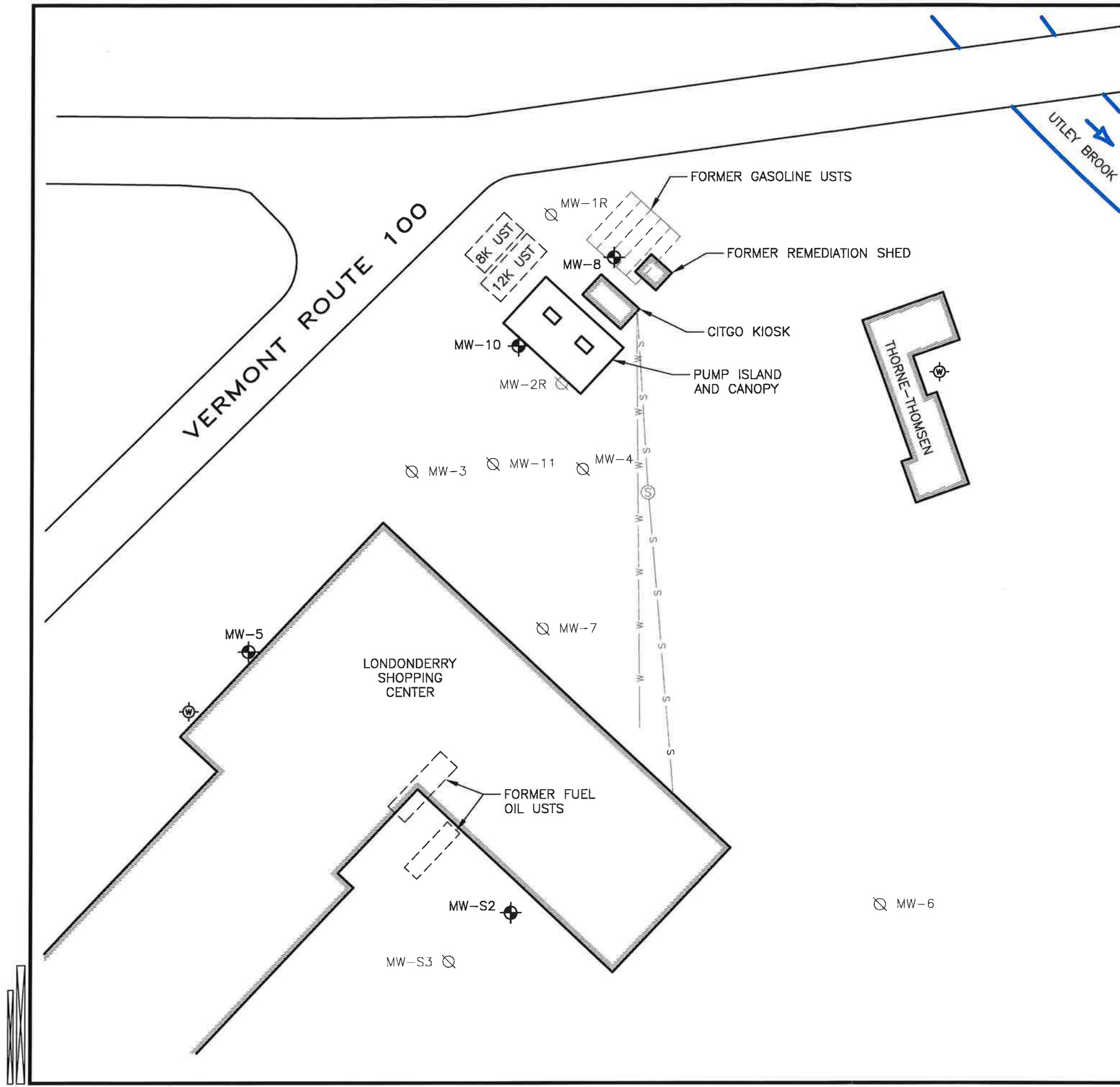


# **SOURCE:**

USGS LONDONDERRY, VT QUADRANGLE



CLIENT: SUMMIT DISTRIBUTING, LLC				 <b>GeoInsight</b> <i>Practical in Nature</i>
PROJECT: 5700 ROUTE 100 LONDONDERRY, VERMONT				
TITLE: SITE LOCUS				
DESIGNED: CAE	DRAWN: STM	CHECKED: AWK	APPROVED: BDK	
SCALE: 1" = 2000'	DATE: 12/29/08	FILE NO.: 5599-LOCUS	PROJECT NO.: 5599-000	FIGURE NO.: 1

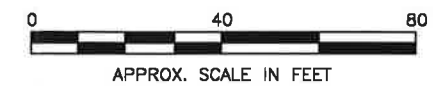



### LEGEND

- MW-1 MONITORING WELL
- MW-1R DECOMMISSIONED MONITORING WELL
- SUPPLY WELL
- SEWER MANHOLE
- SEWER LINE
- WATER LINE

### NOTES:

1. THIS PLAN WAS BASED UPON A SITE PLAN CREATED BY ECS DATED APRIL 04, 2006. ALL SITE FEATURES ARE APPROXIMATE.



CLIENT:		SUMMIT DISTRIBUTING, LLC		 <b>GeoInsight</b> <i>Practical in Nature</i>
PROJECT:		5700 ROUTE 100 LONDONDERRY, VERMONT		
TITLE:		SITE PLAN		
DESIGNED: EDJ	DRAWN: STM	CHECKED: DLS	APPROVED: PDF	FIGURE NO.: <b>2</b>
SCALE: 1" = 40'	DATE: 08/09/10	FILE NO.: 5599D001	PROJECT NO.: 5599-000	



## TABLES





**TABLE 1**  
**SUMMARY OF SUPPLY WELL SAMPLING AND QUALITY ASSURANCE/QUALITY CONTROL ANALYTICAL DATA - SEPTEMBER 2011 EVENT**  
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**  
**5700 ROUTE 100**  
**LONDONDERRY, VERMONT**  
**SMS #1996-2015**

MONITORING DATE: September 22, 2011												
Supply Well	MTBE	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Total TMB	Isopropylbenzene	EDB	1,2-DCA	chloromethane	Trichloroethene	Methylene chloride
Shopping Center Main - Influent	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND(2)	ND(2)	NA	NA	NA
Shopping Center Main - Mid D	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND(2)	ND(2)	NA	NA	NA
Shopping Center Main - Mid G	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND(2)	ND(2)	NA	NA	NA
Shopping Center Main - Effluent	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND(2)	ND(2)	NA	NA	NA
QUALITY ASSURANCE/QUALITY CONTROL												
Trip Blank	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	ND(2)	ND(2)	NA	NA	NA
MCL	--	5	1,000	700	10,000	--	--	0.05	5	--	5	--
VHA	40	--	--	--	--	350	--	--	--	30	--	5
VAL	--	1	--	--	--	--	--	--	0.5	--	--	--

**NOTES:**

- Results reported in micrograms per liter (µg/L).
- Bold results indicate an exceedence of the applicable MCL.
- ND(X) - constituent not detected above laboratory practical quantitation limit noted. NA = not analyzed.
- MCL - Maximum Contaminant Levels for public water supplies from Chapter 21, Vermont Water Supply Rule (April 25, 2005) or Vermont Department of Health, Drinking Water Guidance (December 2002).
- VHA - Vermont Health Advisories - guidelines for concentrations of chemicals in drinking water that do not have MCLs; VAL - Vermont Action Levels for eight chemicals of specific health concern in public water systems both established by the Vermont Department of Health (December 2002, revised February 2007).
- Total TMB - 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene.
- EDB - 1,2-dibromoethane; 1,2-DCA - 1,2-dichloroethane; MTBE - methyl tert butyl ether.

**TABLE 2**  
**SHOPPING CENTER THORNE-THOMSEN POET SYSTEM AND ROGERS SUPPLY WELL SAMPLING ANALYTICAL DATA**  
**(2001 TO PRESENT)**  
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**  
**5700 ROUTE 100**  
**LONDONDERRY, VERMONT**  
**SMS #1996-2015**

Supply Well / Drinking Water Standard	Sample Date	MTBE	TAME	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Total TMB	Methylene Chloride	Chloromethane
	MCL	--	--	5	1,000	700	10,000	--	--	--
	VHA	40	--	--	--	--	--	350	5	6
	VAL	--	--	1	--	--	--	--	--	--
Shopping Center Main - POET System Influent	01/17/01		NR	43.9	ND(1)	ND(1)	ND(1)	ND(2)	NR	NR
	02/14/01	1.4	NR	33.2	ND(1)	ND(1)	ND(1)	ND(2)	NR	NR
	03/13/01	2.9	NR	34.9	ND(1)	ND(1)	ND(1)	ND(2)	NR	NR
	04/17/01	2	NR	26.3	ND(1)	ND(1)	ND(1)	ND(2)	NR	NR
	05/17/01	2.5	NR	28.2	ND(1)	ND(1)	1.4	ND(2)	NR	NR
	07/17/01	2.7	NR	27.2	ND(1)	ND(1)	ND(1)	ND(2)	NR	NR
	09/25/01	3.6	NR	36.9	ND(1)	ND(1)	ND(1)	ND(2)	NR	NR
	11/14/01	2.2	NR	33.5	ND(1)	ND(1)	ND(1)	ND(2)	NR	NR
	01/08/02	2.3	NR	28.1	ND(1)	ND(1)	ND(1)	ND(2)	NR	NR
	03/26/02	2.8	NR	27	ND(1)	ND(1)	ND(1)	ND(2)	NR	NR
	09/05/02	2.1	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	01/03/03	1.9	NR	8.4	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	07/18/03	5.6	NR	3.7	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	03/27/03	3.6	NR	6.2	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	09/25/03	15.4	NR	4.1	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	12/03/03	13.2	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	03/16/04	27.7	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	06/16/04	32.9	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	08/11/04	96.4	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	12/28/04	60	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	03/29/05	61.7	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	06/02/05	46	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	09/02/05	34.3	NR	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	12/07/05	25.4	NR	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	03/21/06	62.6	NR	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	06/23/06	16.2	2.2	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	09/12/06	22.3	2.1	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	12/22/06	16.1	2.2	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	03/30/07	14.1	0.7	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	06/21/07	7.2	NR	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	09/16/07	11.9	0.8	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	12/09/07	11.3	1.2	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	03/04/08	10.2	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	06/06/08	6.3	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	10/09/08	9.6	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	1.2	ND(0.5)
	12/31/08	6.3	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
	04/16/09	2.6	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	ND(0.5)	0.6
	07/16/09	3.1	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	09/21/09	6.1	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	12/10/09	3.1	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	03/23/10	1.9	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	06/30/10	2.9	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	09/08/10	12	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	12/13/10	4.5	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	03/28/11	1.5	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	09/22/11	ND(2)	NA	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	NA	NA

**TABLE 2**  
**SHOPPING CENTER THORNE-THOMSEN POET SYSTEM AND ROGERS SUPPLY WELL SAMPLING ANALYTICAL DATA**  
**(2001 TO PRESENT)**  
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**  
**5700 ROUTE 100**  
**LONDONDERRY, VERMONT**  
**SMS #1996-2015**

Supply Well / Drinking Water Standard	Sample Date	MTBE	TAME	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Total TMB	Methylene Chloride	Chloromethane
	<b>MCL</b>	--	--	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	--	--	--
	<b>VHA</b>	<b>40</b>	--	--	--	--	--	<b>350</b>	<b>5</b>	<b>6</b>
	<b>VAL</b>	--	--	<b>1</b>	--	--	--	--	--	--
Thorne-Thomsen - POET System Influent	03/22/01	1	NR	4.6	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	09/25/01	1.38	NR	<b>12</b>	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	01/08/02	ND(1)	NR	<b>2</b>	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	03/26/02	2.8	NR	<b>27</b>	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	09/05/02	2	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	01/03/03	1.2	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	03/27/03	1.6	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	07/18/03	Not sampled.								
	09/25/03	5.5	NR	4.1	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	12/03/03	10.7	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	03/16/04	Not sampled.								
	06/16/04	28.7	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	08/11/04	Not sampled.								
	12/28/04	<b>43.9</b>	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	03/29/05	<b>50.1</b>	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	06/02/05	36.2	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	09/02/05	<b>45.1</b>	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	12/07/05	36.7	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	03/21/06	33.2	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	06/23/06	28.6	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	09/12/06	34.9	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	12/22/06	Not sampled.								
	03/30/07	<b>40.2</b>	NR	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	06/21/07	Not sampled.								
	09/16/07	Not sampled.								
	12/09/07	8.6	NR	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	03/04/08	17.6	NR	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	06/06/08	4.1	NR	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	NR	NR
	10/09/08	6.4	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	1.3	ND(0.5)
	12/31/08	3.8	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
	04/16/09	0.5	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
	07/16/09	2.1	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	09/21/09	1.9	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	12/10/09	Not sampled.								
	03/23/10	ND(0.5)	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	06/30/10	2	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	09/08/10	ND(0.5)	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	1.6
	12/13/10	Not sampled.								
	03/28/11	2.3	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
	09/22/11	Not sampled.								

**TABLE 2**  
**SHOPPING CENTER THORNE-THOMSEN POET SYSTEM AND ROGERS SUPPLY WELL SAMPLING ANALYTICAL DATA**  
**(2001 TO PRESENT)**  
**LONDONDERRY CITGO/LONDONDERRY SHOPPING CENTER**  
**5700 ROUTE 100**  
**LONDONDERRY, VERMONT**  
**SMS #1996-2015**

Supply Well / Drinking Water Standard	Sample Date	MTBE	TAME	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Total TMB	Methylene Chloride	Chloromethane
	<b>MCL</b>	--	--	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	--	--	--
	<b>VHA</b>	<b>40</b>	--	--	--	--	--	<b>350</b>	<b>5</b>	<b>6</b>
	<b>VAL</b>	--	--	<b>1</b>	--	--	--	--	--	--
Rogers Residence	03/27/03	1.4	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	03/16/04	22.1	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	03/29/05	6.5	NR	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	NR	NR
	12/07/05	0.9	NR	ND(1)	ND(1)	ND(1)	ND(3)	ND(2)	NR	NR
	03/21/06	1.9	NR	ND(1)	ND(1)	ND(1)	ND(3)	ND(2)	NR	NR
	06/23/06	1.5	NR	ND(1)	ND(1)	ND(1)	ND(3)	ND(2)	NR	NR
	09/12/06	1.4	NR	ND(1)	ND(1)	ND(1)	ND(3)	ND(2)	NR	NR
	12/22/06	1	NR	ND(1)	ND(1)	ND(1)	ND(3)	ND(2)	NR	NR
	03/30/07	ND(1)	NR	ND(1)	11.8	1.6	2.7	1	NR	NR
	06/21/07	ND(1)	NR	ND(1)	ND(1)	ND(1)	ND(3)	ND(2)	NR	NR
	09/16/07	ND(1)	NR	ND(1)	ND(1)	ND(1)	ND(3)	ND(2)	NR	NR
	12/06/07	ND(1)	NR	ND(1)	ND(1)	ND(1)	ND(3)	ND(2)	NR	NR
	03/04/08	Not sampled.								
	06/06/08	ND(1)	NR	ND(1)	ND(1)	ND(1)	ND(3)	ND(2)	NR	NR
	10/09/08	ND(0.5)	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
	12/31/08	Not sampled.								
	04/16/09	ND(0.5)	NA	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
	07/16/09	Not included in sampling program.								
	09/21/09	Not included in sampling program.								
	12/10/09	Not included in sampling program.								
	03/23/10	Not included in sampling program.								
	06/30/10	Not included in sampling program.								
	09/08/10	Not included in sampling program.								
	12/13/10	Not included in sampling program.								
	03/28/11	Not included in sampling program.								
	09/22/11	Not included in sampling program.								

**NOTES:**

- Results reported in micrograms per liter (µg/L); bold results indicate an exceedence of the applicable MCL.
- NA - not applicable; NR - not reported; POET system - point-of-entry treatment system.
- ND(X) - constituent not detected above laboratory practical quantitation limit noted.
- MCL - Maximum Contaminant Levels for public water supplies from Chapter 21, Vermont Water Supply Rule (04/25/05) or Vermont Department of Health, Drinking Water Guidance (December 2002).
- VHA - Vermont Health Advisories - guidelines for concentrations of chemicals in drinking water that do not have MCLs;  
VAL - Vermont Action Levels for eight chemicals of specific health concern in public water systems both established by the Vermont Department of Health (December 2002, revised February 2007).
- Total TMB - 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene.
- MTBE - methyl tert butyl ether; TAME - tertiary amyl ethyl ether.
- Sampling performed prior to the October 2008 monitoring event was not completed by GeoInsight, Inc. These historical data were obtained from historical reports.



**ATTACHMENT A**

**VTDEC EMAIL**





**From:** Cropley, Tim [Tim.Cropley@state.vt.us]  
**Sent:** Thursday, September 22, 2011 11:53 PM  
**To:** Darrin L. Santos  
**Subject:** RE: Londonderry Citgo/Shopping Center

Wow, I'm really sorry I missed this Darrin. We've been right out because of Irene and I'm continuing to try to catch up on everything. I'm going on vacation next week so I'll just get behind again, oh well.

I suppose that you didn't get to do the Sept 21 sampling as it appears I hadn't officially approved this. I would like to move to bi-annual for POETs and annual for MW sampling as we had discussed. Please proceed at previously approved rates for POET sampling trips.

Tim

---

**From:** Darrin L. Santos [<mailto:DLSantos@geoinc.com>]  
**Sent:** Monday, September 12, 2011 3:44 PM  
**To:** Cropley, Tim  
**Subject:** Londonderry Citgo/Shopping Center

Hi Tim,

I hear the DEC has been displaced from your Waterbury offices after the flooding from Irene. I hope you made it through relatively okay?

I realize you are probably without your files, but can you recall if you had reviewed the March 2011 gw and POET system summary report for the Londonderry Citgo site? The report included a recommendation to sample the two POET systems (shopping center and Thorne-Thomsen) in September. This was consistent with our past discussions of reducing the quarterly POET system monitoring to bi-annual and the ground water sampling to annual (next ground water event would be next spring). We have the POET system sampling scheduled for September 21, but I thought I would confirm with you that we should proceed in the meantime.

When you have a chance, please let me know. Thanks,

Darrin L. Santos, P.G.  
GeoInsight, Inc.  
186 Granite Street, 3<sup>rd</sup> Floor, Suite A  
Manchester, NH 03101-2643  
P: 603-314-0820  
F: 603-314-0821



**ATTACHMENT B**  
**SEPTEMBER 2011 ANALYTICAL REPORT**



# Absolute Resource *associates*

124 Heritage Avenue #10 Portsmouth, NH 03801



Eric Johnson  
GeolInsight, Inc.  
186 Granite Street  
3rd Floor, Suite A  
Manchester, NH 03103

PO Number: None  
Job ID: 22459  
Date Received: 9/22/11

Project: Londonderry VT 5599

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

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

Absolute Resource Associates maintains certification with the agencies listed below.

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

Sincerely,  
Absolute Resource Associates

Sue Sylvester  
Principal, General Manager

Date of Approval: 9/29/2011  
Total number of pages: 5

## Absolute Resource Associates Certifications

New Hampshire 1732  
Maine NH903

Massachusetts M-NH902

Project ID: Londonderry VT 5599

Job ID: 22459

Sample#: 22459-001

Sample ID: Shopping Center EFF

Matrix: Water

Sampled: 9/22/11 11:00

Parameter	Result	Quant	Instr Dil'n		Analyst	Prep Date	Analysis			Reference
		Limit	Units	Factor			Batch	Date	Time	
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
benzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
toluene	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
o-xylene	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
naphthalene	< 5	5	ug/L	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
<b>Surrogate Recovery</b>		<b>Limits</b>								
dibromofluoromethane SUR	97	78-114	%	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
toluene-D8 SUR	102	88-110	%	1	AJD		1102119	9/27/11	5:05	SW5030B8260B
4-bromofluorobenzene SUR	101	86-115	%	1	AJD		1102119	9/27/11	5:05	SW5030B8260B

Sample#: 22459-002

Sample ID: Shopping Center MID-D

Matrix: Water

Sampled: 9/22/11 11:05

Parameter	Result	Quant	Instr Dil'n		Analyst	Prep Date	Analysis			Reference
		Limit	Units	Factor			Batch	Date	Time	
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
benzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
toluene	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
o-xylene	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
naphthalene	< 5	5	ug/L	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
<b>Surrogate Recovery</b>		<b>Limits</b>								
dibromofluoromethane SUR	99	78-114	%	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
toluene-D8 SUR	100	88-110	%	1	AJD		1102119	9/27/11	5:39	SW5030B8260B
4-bromofluorobenzene SUR	102	86-115	%	1	AJD		1102119	9/27/11	5:39	SW5030B8260B

**Project ID:** Londonderry VT 5599

**Job ID:** 22459

**Sample#:** 22459-003

**Sample ID:** Shopping Center MID-G

**Matrix:** Water

**Sampled:** 9/22/11 11:10

Parameter	Result	Quant	Instr Dil'n		Analyst	Prep Date	Analysis			Reference
		Limit	Units	Factor			Batch	Date	Time	
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
benzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
toluene	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
o-xylene	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
naphthalene	< 5	5	ug/L	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
<b>Surrogate Recovery</b>		<b>Limits</b>								
dibromofluoromethane SUR	<b>98</b>	78-114	%	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
toluene-D8 SUR	<b>101</b>	88-110	%	1	AJD		1102119	9/27/11	6:12	SW5030B8260B
4-bromofluorobenzene SUR	<b>103</b>	86-115	%	1	AJD		1102119	9/27/11	6:12	SW5030B8260B

**Sample#:** 22459-004

**Sample ID:** Shopping Center INF

**Matrix:** Water

**Sampled:** 9/22/11 11:15

Parameter	Result	Quant	Instr Dil'n		Analyst	Prep Date	Analysis			Reference
		Limit	Units	Factor			Batch	Date	Time	
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
benzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
toluene	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
o-xylene	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
naphthalene	< 5	5	ug/L	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
<b>Surrogate Recovery</b>		<b>Limits</b>								
dibromofluoromethane SUR	<b>95</b>	78-114	%	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
toluene-D8 SUR	<b>98</b>	88-110	%	1	AJD		1102119	9/27/11	6:46	SW5030B8260B
4-bromofluorobenzene SUR	<b>103</b>	86-115	%	1	AJD		1102119	9/27/11	6:46	SW5030B8260B



**Project ID:** Londonderry VT 5599

**Job ID:** 22459

**Sample#:** 22459-005

**Sample ID:** Trip Blank

**Matrix:** Water

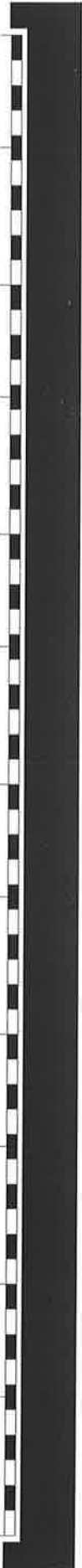
**Sampled:** 9/22/11 0:00

Parameter	Result	Quant	Instr Dil'n		Analyst	Prep Date	Analysis			Reference
		Limit	Units	Factor			Batch	Date	Time	
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
benzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
toluene	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
o-xylene	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
naphthalene	< 5	5	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
<b>Surrogate Recovery</b>		<b>Limits</b>								
dibromofluoromethane SUR	<b>100</b>	78-114	%	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
toluene-D8 SUR	<b>104</b>	88-110	%	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
4-bromofluorobenzene SUR	<b>104</b>	86-115	%	1	AJD		1102119	9/27/11	1:46	SW5030B8260B





**ATTACHMENT C**  
**SAMPLING RESULTS LETTERS**





# GeoInsight®

Environmental Strategy & Engineering  
*Practical in Nature*

October 25, 2011

GeoInsight Project 5599-000

Roger Thorne-Thomsen  
2425 Pikes Fall Road  
Jamaica, VT 05343

RE: September 2011 Supply Well Treatment System Sampling  
Thorne-Thomsen Residence  
Londonderry Citgo/Londonderry Shopping Center  
Londonderry, Vermont  
**VTDEC SMS #1996-2015**

Dear Mr. Thorne-Thomsen:

At the request of the Vermont Department of Environmental Conservation (VTDEC), GeoInsight, Inc. attempted to collect water samples from your supply well point-of-entry treatment (POET) system during a September 22, 2011 monitoring event associated with the Londonderry Citgo/Londonderry Shopping Center site (SMS #1996-2015) located in Londonderry, Vermont.

Numerous attempts were made to contact you prior to the scheduled sampling event (telephone voicemails) and by checking at the residence on September 22, 2011. As a result, a supply well sample could not be collected from your POET system supply well during the monitoring event.

At your earliest convenience, please provide us with updated contact information for yourself and current tenants of the Londonderry residence to ensure that POET system samples are collected during the next anticipated sampling event, which is scheduled for March 2012.

If you have questions, contact us in our Manchester, New Hampshire office at (603) 314-0820. We can also be contacted via email at the addresses listed below.

Sincerely,  
GEOINSIGHT, INC.

Eric D. Johnson  
Project Geologist  
[edjohnson@geoinc.com](mailto:edjohnson@geoinc.com)

Darrin L. Santos, P.G.  
Senior Geologist  
[dlsantos@geoinc.com](mailto:dlsantos@geoinc.com)

cc: Timothy Cropley, VTDEC

P:\5599 Summit Londonderry VT\Monitoring\2011\september 2011\Thorne-ThomsenResults.doc



GeoInsight®

Environmental Strategy & Engineering

*Practical in Nature*

October 25, 2011

GeoInsight Project 5599-000

Robert Waite  
Londonderry Ventures  
Mountain Marketplace  
PO Box 147  
Londonderry, VT 05148

RE: September 2011 Supply Well Treatment System Sampling  
Londonderry Citgo/Londonderry Shopping Center  
Londonderry, Vermont  
**VTDEC SMS #1996-2015**

Dear Mr. Waite:

At the request of the Vermont Department of Environmental Conservation (VTDEC), GeoInsight, Inc. collected water samples from the supply well point-of-entry treatment (POET) system serving the Londonderry Shopping Center on September 22, 2011 during a monitoring event associated with the Londonderry Citgo/Londonderry Shopping Center site (SMS #1996-2015) in Londonderry, Vermont. The POET system samples were submitted to Absolute Resource Associates, LLC of Portsmouth, New Hampshire for analysis of volatile organic compounds by United States Environmental Protection Agency Method 8260B.

Volatile organic compounds (VOCs) were not detected above the laboratory practical quantitation limits (PQLs) in the POET system influent ("Shopping Center INF") and POET system effluent ("Shopping Center EFF") samples. Note that the effluent sample is collected after water is treated by the POET system. A copy of the laboratory results for the September 2011 POET system monitoring event is enclosed for your records. Results for POET system mid-point samples ("Shopping Center MID-D" and Shopping Center MID-G") are also included in the laboratory report. This data is used by the water system operator to evaluate system maintenance requirements.

GeoInsight, Inc.  
186 Granite Street, 3rd Floor, Suite A  
Manchester, NH 03101-2643  
Tel (603) 314-0820  
Fax (603) 314-0821  
www.geoinsightinc.com

GeoInsight, Inc.  
One Monarch Drive, Suite 201  
Littleton, MA 01460-1440  
Tel (978) 679-1600  
Fax (978) 679-1601  
www.geoinsightinc.com

GeoInsight, Inc.  
200 Court Street, 2nd Floor  
Middletown, CT 06457-3341  
Tel (860) 894-1022  
Fax (860) 894-1023  
www.geoinsightinc.com





If you have questions regarding these results, contact us in our Manchester, New Hampshire office at (603) 314-0820.

Sincerely,  
GEOINSIGHT, INC.

Eric D. Johnson  
Project Geologist

Darrin L. Santos, P.G.  
Senior Geologist

Enclosure

cc: Tim Cropley, VTDEC  
John Beauchamp, Vermont Water Treatment Company

P:\5599 Summit Londonderry VT\Monitoring\2011\Sept 2011\LSC-RobertWaiteResults.doc

# Absolute Resource *associates*

124 Heritage Avenue #10 Portsmouth, NH 03801



Eric Johnson  
GeolInsight, Inc.  
186 Granite Street  
3rd Floor, Suite A  
Manchester, NH 03103

PO Number: None  
Job ID: 22459  
Date Received: 9/22/11

Project: Londonderry VT 5599

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

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

Absolute Resource Associates maintains certification with the agencies listed below.

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

Sincerely,  
Absolute Resource Associates

A handwritten signature in black ink, appearing to read 'Sue Sylvester' followed by '(for)' in parentheses.

Sue Sylvester  
Principal, General Manager

Date of Approval: 9/29/2011  
Total number of pages: 5

## Absolute Resource Associates Certifications

New Hampshire 1732  
Maine NH903

Massachusetts M-NH902

**Project ID:** Londonderry VT 5599

**Job ID:** 22459

**Sample#:** 22459-001

**Sample ID:** Shopping Center EFF

**Matrix:** Water

**Sampled:** 9/22/11 11:00

Sampled: 9/22/11 11:00		Quant		Instr Dil'n		Prep	Analysis			
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
benzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
toluene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
o-xylene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
naphthalene	< 5	5	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
Surrogate Recovery		Limits								
dibromofluoromethane SUR	97	78-114	%	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
toluene-D8 SUR	102	88-110	%	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B
4-bromofluorobenzene SUR	101	86-115	%	1	AJD	1102119	9/27/11	9/27/11	5:05	SW5030B8260B

**Sample#:** 22459-002

**Sample ID:** Shopping Center MID-D

**Matrix:** Water

**Sampled:** 9/22/11 11:05

Sampled: 9/22/11 11:05		Quant	Instr Dil'n		Prep	Analysis				
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
benzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
toluene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
o-xylene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
naphthalene	< 5	5	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
Surrogate Recovery		Limits								
dibromofluoromethane SUR	99	78-114	%	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
toluene-D8 SUR	100	88-110	%	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B
4-bromofluorobenzene SUR	102	86-115	%	1	AJD	1102119	9/27/11	9/27/11	5:39	SW5030B8260B

**Project ID:** Londonderry VT 5599

**Job ID:** 22459

**Sample#:** 22459-003

**Sample ID:** Shopping Center MID-G

**Matrix:** Water

**Sampled:** 9/22/11 11:10

Sampled: 9/22/11 11:10		Quant	Instr Dil'n		Prep	Analysis				
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
benzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
toluene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
o-xylene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
naphthalene	< 5	5	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
Surrogate Recovery		Limits								
dibromofluoromethane SUR	98	78-114	%	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
toluene-D8 SUR	101	88-110	%	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B
4-bromofluorobenzene SUR	103	86-115	%	1	AJD	1102119	9/27/11	9/27/11	6:12	SW5030B8260B

**Sample#:** 22459-004

**Sample ID:** Shopping Center INF

**Matrix:** Water

**Sampled:** 9/22/11 11:15

Sampled: 9/22/11 11:15		Quant	Instr Dil'n		Prep	Analysis				
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
benzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
toluene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
o-xylene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
naphthalene	< 5	5	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
Surrogate Recovery		Limits								
dibromofluoromethane SUR	95	78-114	%	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
toluene-D8 SUR	98	88-110	%	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B
4-bromofluorobenzene SUR	103	86-115	%	1	AJD	1102119	9/27/11	9/27/11	6:46	SW5030B8260B

**Project ID:** Londonderry VT 5599

**Job ID:** 22459

**Sample#:** 22459-005

**Sample ID:** Trip Blank

**Matrix:** Water

**Sampled:** 9/22/11 0:00

Parameter	Result	Quant	Instr Dil'n		Analyst	Prep	Analysis			Reference
		Limit	Units	Factor		Date	Batch	Date	Time	
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
benzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
toluene	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
o-xylene	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
naphthalene	< 5	5	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
<b>Surrogate Recovery</b>		<b>Limits</b>								
dibromofluoromethane SUR	<b>100</b>	78-114	%	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
toluene-D8 SUR	<b>104</b>	88-110	%	1	AJD		1102119	9/27/11	1:46	SW5030B8260B
4-bromofluorobenzene SUR	<b>104</b>	86-115	%	1	AJD		1102119	9/27/11	1:46	SW5030B8260B





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solutesourceassociates.com

## CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

22459

## ANALYSIS REQUEST

Company Name: <i>GeoInsight</i>	Project Name: <i>Leptonberry VT</i>
Company Address: <i>186 Granite St 3rd Floor Manchester NH, 03101</i>	Project #: <i>5599</i>
Report To: <i>Eric Johnson</i>	Project Location: NH MA ME <input checked="" type="checkbox"/> Other _____
Phone #: <i>603-314-0820</i>	Protocol: RCRA SDWA NPDES MCP NHDES OTHER
Invoice To: <i>Same</i>	Reporting Limits: QAPP GW-1 S-1 EPA DW Other _____
	Quote # _____ <input type="checkbox"/> NH GREE/ODD Fund Pricing
	PO # _____

[illegible][illegible]

<b>TAT REQUESTED</b> Priority (24 hr)* <input type="checkbox"/> Expedited (48 hr)* <input type="checkbox"/> Standard (10 Business Days) <input checked="" type="checkbox"/>		See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.		<b>SPECIAL INSTRUCTIONS</b>	
*Date Needed _____		<b>REPORTING INSTRUCTIONS</b> <input checked="" type="checkbox"/> PDF (e-mail address) <u>EDJohnson@GeoInc.com</u>		RECEIVED ON ICE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
<input type="checkbox"/> HARD COPY REQUIRED		<input type="checkbox"/> FAX (FAX#) _____		<input type="checkbox"/> OTHER (specify) _____	
				TEMPERATURE <u>4</u> °C	

<b>CUSTODY RECORD</b>  QSD-01 Revision 12/23/10	Relinquished by Sampler:	Date 9/22/11	Time 14:00	Received by: Colo. Storage	Date 9/22/11	Time 14:00
	Relinquished by:	Date 9/22/11	Time 245	Received by:	Date 9/22/11	Time 245
	Relinquished by:	Date	Time	Received by Laboratory:	Date	Time