



October 11, 2010

Jennifer G. Scarcia
Nationwide Indemnity
1431 Opus Place Ste 100
Downers Grove IL 60515

RE: September 2010 Summary Report
Taubman Residence
35 Brickyard Road
Essex, Vermont
LAG Project #09060
SMS #2009-WMD-318

Dear Ms. Scarcia:

Lincoln Applied Geology, Inc. is pleased to present the results of the recent ground water monitoring and sampling event performed at the above referenced site. Ground water elevation monitoring, photoionization detector headspace assays, and ground water quality sampling were performed on September 28, 2010.

If you have any questions or comments regarding this report, please do not hesitate to contact me at (802) 453-4384.

Sincerely,
Lincoln Applied Geology Inc.

Jeremy Revell
Project Manger

JR/IM/SK:kj
Enclosures

cc: Matt Moran

F:\CLIENTS\2009\09060\Reports\September 2010\Cover letter September 2010.doc

September 2010 Summary Report

**Taubman Residence
35 Brickyard Road
Essex, Vermont
LAG Project #09060
SMS #2009-WMD-318**

October 11, 2010

Prepared for:

**Nationwide Indemnity
1431 Opus Place Ste 100
Downers Grove IL 60515**

Prepared by:

**Lincoln Applied Geology, Inc.
163 Revell Road
Lincoln, Vermont
Jeremy Revell**



TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION.....	1
2.0 SITE MONITORING ACTIVITIES.....	1
2.1 Ground Water Elevation and Product Recovery Data.....	1
2.2 Photoionization Assay Results.....	1
2.3 Ground Water Quality Results	1
3.0 CONCLUSIONS AND RECOMMENDATIONS.....	1
1.0 INTRODUCTION.....	1
2.0 SITE MONITORING ACTIVITIES.....	1
2.1 Ground Water Elevation and Product Recovery Data.....	1
2.2 Photoionization Assay Results.....	1
2.3 Ground Water Quality Results	1
3.0 CONCLUSIONS AND RECOMMENDATIONS.....	1

Tables

Table 1	Liquid Level Monitoring Data
Table 2	Historical Ground Water Elevations
Table 3	Photoionization Detector Results
Table 4	Ground Water Quality Results

Figure

Figure 1	Ground Water Contour Map for September 28, 2010
----------------	---

Appendix

Appendix A.....	Laboratory Analytical Reports for September 28, 2010
-----------------	--

1.0 INTRODUCTION

On September 28, 2010, a ground water sampling event was performed at the Taubman residence in Essex, Vermont (the "Site"). This project has been on the active list of sites since 2009. In March 2010 the source area well MW-1 was re-drilled so that ground water in the source area could be sampled.

2.0 SITE MONITORING ACTIVITIES

2.1 Ground Water Elevation and Product Recovery Data

Ground water data collected on September 28, 2010 and presented as Table 1 of this report, indicate depth to water (DTW) levels ranging from 0.7 to 8.95 feet below ground surface in wells MW-1 and MW-2, respectively. No free product was observed during this sampling event which is consistent with previous Site inspections. Ground water elevation data is depicted in Figure 1.

According to the historical ground water data summarized on Table 2, elevations obtained during September 2010 are at peak levels.

2.2 Photoionization Assay Results

A photoionization detector (PID) was utilized to screen the headspace of all monitoring wells. PID data are presented as Table 3. On September 28, 2010 all wells assayed at 0.0 parts per million (ppm), indicating that no vapor phase contamination exists at the Site.

2.3 Ground Water Quality Results

Water quality samples were collected on September 28, 2010 from all wells. Ground water samples, were transported on ice and analyzed by EPA Method 8260M at Green Mountain Laboratories, Inc. in Montpelier, Vermont. Laboratory analytical reports are included as Appendix A and the data is summarized in Table 4. No petroleum constituents were detected above laboratory detection limits in any of the monitoring wells.

3.0 CONCLUSIONS AND RECOMMENDATIONS

During the September 28, 2010 monitoring event LAG sampled all the monitoring wells. Vapor and dissolved phase contamination are no longer present at the Site; therefore, LAG recommends that all monitoring wells at the Site be properly abandoned and that the Site receive a Site Management Activities Complete (SMAC) designation by the Vermont Department of Environmental Conservation (VDEC).

Tables

Liquid Level Monitoring Data

September 28, 2010

Well ID	TOC Elevation	Total Well Depth	Depth to Product	Depth to Water	Product Thickness	Water Table Elevation
MW-1	101.95	4.00	-	0.70	-	101.25
MW-2	101.16	12.00	-	8.95	-	92.21
MW-3	101.15	12.00	-	5.69	-	95.46
MW-4	100.99	12.00	-	5.34	-	95.65
MW-5	101.71	10.00	-	2.97	-	98.74

Notes:

TOC: Top of well casing elevation
Wells surveyed to an arbitrary elevation of 100.00 feet mean sea level (msl)
Dark shaded cell: Inaccessible or destroyed
NS=Not Sampled

Historical Ground Water Elevation Data (feet)

Well ID	TOC	8/26/09	3/15/10	9/28/10
MW-1	101.95	Dry	101.45	101.25
MW-2	101.16	92.71	NS	92.21
MW-3	101.15	95.08	NS	95.46
MW-4	100.99	94.13	NS	95.65
MW-5	101.71	98.06	NS	98.74

NOTES:

TOC: Top of well casing elevation

Wells surveyed to an arbitrary elevation of 100.00 feet mean sea level

Dark Gray - Inaccessible or destroyed

NS=Not Sampled

Photoionization Readings (PID) - ppm

Data Point	8-26-09	3-15-10	9-28-10
MW-1	0.0	35.9	0.0
MW-2	0.0	NS	0.0
MW-3	0.0	NS	0.0
MW-4	0.0	NS	0.0
MW-5	0.0	NS	0.0

NOTES:

ppm: parts per million (by volume)

Dark Gray: Inaccessible or destroyed

NS=Not Sampled

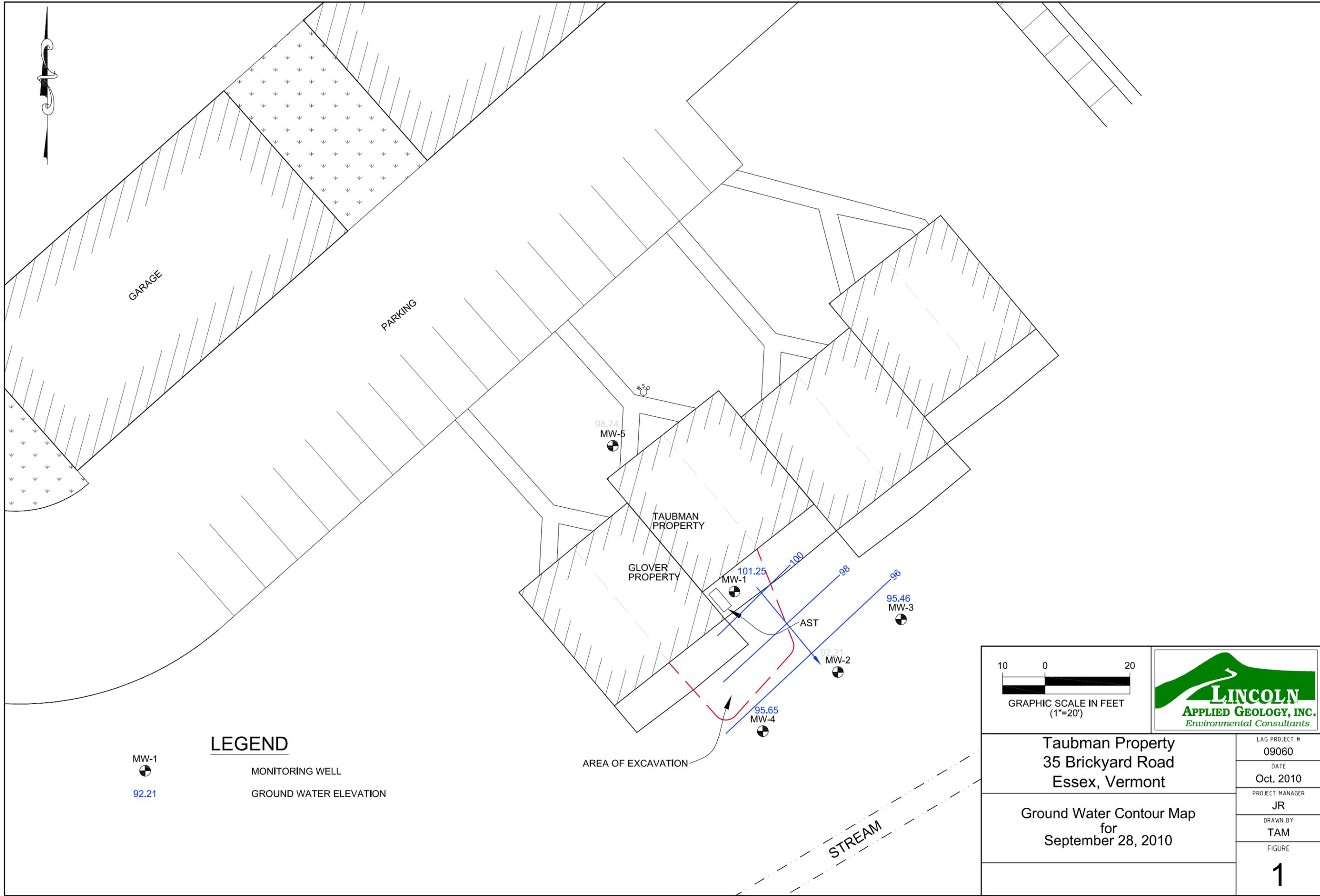
Ground Water Quality Results (ppb)

Data Point	Compound		8/26/09	3/15/10	9/28/10
MW-1	Benzene	5	NS	ND	ND
	Toluene	1,000	NS	ND	ND
	Ethylbenzene	700	NS	2.9	ND
	Xylenes	10,000	NS	5.9	ND
	Total BTEX		NS	8.8	ND/BQL
	1,3,5-Trimethylbenzene		NS	3.4	ND
	1,2,4-Trimethylbenzene	350	NS	26	ND
	Naphthalene	20	NS	31	ND
	MTBE	40	NS	ND	ND
	Total Targeted VOC's		NS	60.4	ND/BQL
MW-2	Benzene	5	ND	NS	ND
	Toluene	1,000	ND	NS	ND
	Ethylbenzene	700	ND	NS	ND
	Xylenes	10,000	ND	NS	ND
	Total BTEX		ND/BQL	NS	ND/BQL
	1,3,5-Trimethylbenzene		ND	NS	ND
	1,2,4-Trimethylbenzene	350	ND	NS	ND
	Naphthalene	20	ND	NS	ND
	MTBE	40	ND	NS	ND
	Total Targeted VOC's		ND/BQL	NS	ND/BQL
MW-3	Benzene	5	ND	NS	ND
	Toluene	1,000	ND	NS	ND
	Ethylbenzene	700	ND	NS	ND
	Xylenes	10,000	ND	NS	ND
	Total BTEX		ND/BQL	NS	ND/BQL
	1,3,5-Trimethylbenzene		ND	NS	ND
	1,2,4-Trimethylbenzene	350	ND	NS	ND
	Naphthalene	20	ND	NS	ND
	MTBE	40	ND	NS	ND
	Total Targeted VOC's		ND/BQL	NS	ND/BQL
MW-4	Benzene	5	ND	NS	ND
	Toluene	1,000	ND	NS	ND
	Ethylbenzene	700	ND	NS	ND
	Xylenes	10,000	ND	NS	ND
	Total BTEX		ND/BQL	NS	ND/BQL
	1,3,5-Trimethylbenzene		ND	NS	ND
	1,2,4-Trimethylbenzene	350	ND	NS	ND
	Naphthalene	20	ND	NS	ND
	MTBE	40	ND	NS	ND
	Total Targeted VOC's		ND/BQL	NS	ND/BQL
MW-5	Benzene	5	ND	NS	ND
	Toluene	1,000	ND	NS	ND
	Ethylbenzene	700	ND	NS	ND
	Xylenes	10,000	ND	NS	ND
	Total BTEX		ND/BQL	NS	ND/BQL
	1,3,5-Trimethylbenzene		ND	NS	ND
	1,2,4-Trimethylbenzene	350	ND	NS	ND
	Naphthalene	20	ND	NS	ND
	MTBE	40	ND	NS	ND
	Total Targeted VOC's		ND/BQL	NS	ND/BQL
Trip Blank	Benzene	5	ND	NS	ND
	Toluene	1,000	ND	NS	ND
	Ethylbenzene	700	ND	NS	ND
	Xylenes	10,000	ND	NS	ND
	Total BTEX		ND/BQL	NS	ND/BQL
	1,3,5-Trimethylbenzene		ND	NS	ND
	1,2,4-Trimethylbenzene	350	ND	NS	ND
	Naphthalene	20	ND	NS	ND
	MTBE	40	ND	NS	ND
	Total Targeted VOC's		ND/BQL	NS	ND/BQL

NOTES:

Analyzed by EPA 8260M
 ND - Not Detected
 BDL - Below Detection Limits
 Light Grey Cell = Constituent exceeds the VGES
 Dark Grey Cell = Well inaccessible or destroyed
 NS=Not Sampled

Figure



Appendix A

Laboratory Analytical Report for September 28, 2010

GREEN MOUNTAIN LABORATORIES, INC.

2 Moonlight Terrace
Montpelier, VT 05602

Phone (802) 262-2004

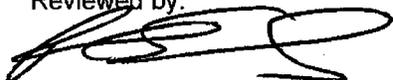
LABORATORY RESULTS

CLIENT NAME:	Lincoln Applied Geology	REFERENCE NO.:	275D
ADDRESS:	163 Revell Drive Lincoln, VT 05443	PROJECT NO.:	NA
SAMPLE LOCATION:	Taubman	DATE OF SAMPLE:	09/28/2010
SAMPLER:	Joseph Hagan	DATE OF RECEIPT:	09/30/2010
ATTENTION:	Jeremy Revell	DATE OF ANALYSIS:	10/04/2010
		DATE OF REPORT:	10/05/2010

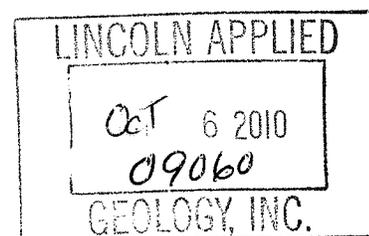
Pertaining to the analyses of specimens submitted under the accompanying chain of custody form, please note the following:

- Water samples submitted for VOC analysis were preserved with HCl. The trip blank was prepared by the client with reagent water supplied by the laboratory.
- Specimens were processed and examined according to the procedures outlined in the specified method.
- Holding times were honored.
- Instruments were appropriately tuned and calibrations were checked with the frequencies required in the specified method.
- Blank contamination was not observed at levels interfering with the analytical results.
- Continuing Calibration Standards were monitored at intervals indicated in the specified method. The resulting analytical precision and accuracy were determined to be within method QA/QC acceptance limits.
- The efficiency of analyte recovery for individual samples was monitored by the addition of surrogate analyte to all samples, standards, and blanks. Surrogate recoveries were found to be within laboratory QA/QC acceptance limits, unless noted otherwise.

Reviewed by:



Raul Sanchez
Chemical Services



GREEN MOUNTAIN LABORATORIES, INC.

2 Moonlight Terrace
Montpelier, VT 05602
Phone (802) 262-2004

LABORATORY RESULTS

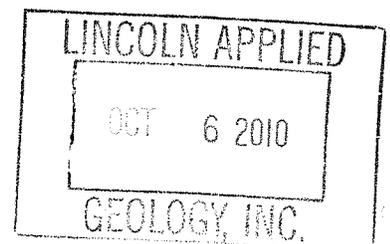
GC/MS METHOD - 8260M

GML REF. #: 275D
SAMPLE ID: TRIP BLANK
ANALYSIS DATE: 10/04/2010
SAMPLE DATE: 09/28/2010
SAMPLE TYPE: WATER

<u>PARAMETER</u>	<u>PQL (ug/L)</u>	<u>RESULT (ug/L)</u>
Methyl-t-butyl-ether (MTBE)	5	ND
Benzene	1	ND
1,2-Dichloroethane	1	ND
Toluene	1	ND
1,2-Dibromoethane	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
1,3,5-Trimethylbenzene	2	ND
1,2,4-Trimethylbenzene	2	ND
Naphthalene	5	ND

100 %

ND = Not Detected
BPQL = Below Practical Quantitation Limit



GREEN MOUNTAIN LABORATORIES, INC.

2 Moonlight Terrace
Montpelier, VT 05602

Phone (802) 262-2004

LABORATORY RESULTS

GC/MS METHOD - 8260M

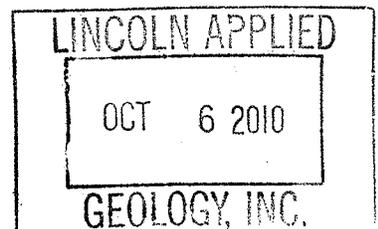
GML REF. #: 275D
SAMPLE ID: MW-1
ANALYSIS DATE: 10/04/2010
SAMPLE DATE: 09/28/2010
SAMPLE TYPE: WATER

<u>PARAMETER</u>	<u>PQL (ug/L)</u>	<u>RESULT (ug/L)</u>
Methyl-t-butyl-ether (MTBE)	5	ND
Benzene	1	ND
1,2-Dichloroethane	1	ND
Toluene	1	ND
1,2-Dibromoethane	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
1,3,5-Trimethylbenzene	2	ND
1,2,4-Trimethylbenzene	2	ND
Naphthalene	5	ND

Surrogate % Recovery: 100 %

ND = Not Detected

BPQL = Below Practical Quantitation Limit



GREEN MOUNTAIN LABORATORIES, INC.

2 Moonlight Terrace
Montpelier, VT 05602
Phone (802) 262-2004

LABORATORY RESULTS

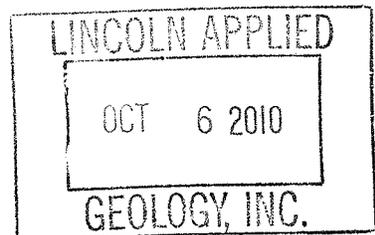
GC/MS METHOD - 8260M

GML REF. # : 275D
SAMPLE ID: MW-2
ANALYSIS DATE: 10/04/2010
SAMPLE DATE: 09/28/2010
SAMPLE TYPE: WATER

<u>PARAMETER</u>	<u>PQL (ug/L)</u>	<u>RESULT (ug/L)</u>
Methyl-t-butyl-ether (MTBE)	5	ND
Benzene	1	ND
1,2-Dichloroethane	1	ND
Toluene	1	ND
1,2-Dibromoethane	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
1,3,5-Trimethylbenzene	2	ND
1,2,4-Trimethylbenzene	2	ND
Naphthalene	5	ND

Surrogate % Recovery: 100 %

ND = Not Detected
BPQL = Below Practical Quantitation Limit



GREEN MOUNTAIN LABORATORIES, INC.

2 Moonlight Terrace
Montpelier, VT 05602

Phone (802) 262-2004

LABORATORY RESULTS

GC/MS METHOD - 8260M

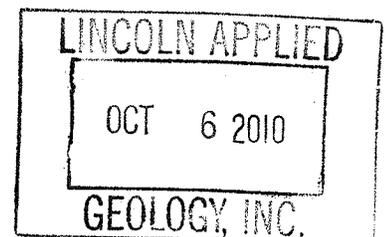
GML REF. #: 275D
SAMPLE ID: MW-3
ANALYSIS DATE: 10/04/2010
SAMPLE DATE: 09/28/2010
SAMPLE TYPE: WATER

<u>PARAMETER</u>	<u>PQL (ug/L)</u>	<u>RESULT (ug/L)</u>
Methyl-t-butyl-ether (MTBE)	5	ND
Benzene	1	ND
1,2-Dichloroethane	1	ND
Toluene	1	ND
1,2-Dibromoethane	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
1,3,5-Trimethylbenzene	2	ND
1,2,4-Trimethylbenzene	2	ND
Naphthalene	5	ND

Surrogate % Recovery: 98 %

ND = Not Detected

BPQL = Below Practical Quantitation Limit



GREEN MOUNTAIN LABORATORIES, INC.

2 Moonlight Terrace
Montpelier, VT 05602

Phone (802) 262-2004

LABORATORY RESULTS

GC/MS METHOD - 8260M

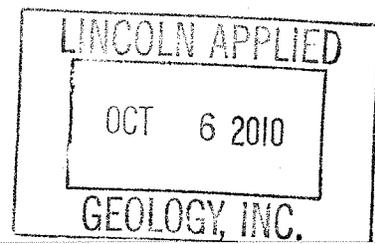
GML REF. # : 275D
SAMPLE ID: MW-4
ANALYSIS DATE: 10/04/2010
SAMPLE DATE: 09/28/2010
WATER

<u>PARAMETER</u>	<u>PQL (ug/L)</u>	<u>RESULT (ug/L)</u>
Methyl-t-butyl-ether (MTBE)	5	ND
Benzene	1	ND
1,2-Dichloroethane	1	ND
Toluene	1	ND
1,2-Dibromoethane	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
1,3,5-Trimethylbenzene	2	ND
1,2,4-Trimethylbenzene	2	ND
Naphthalene	5	ND

Surrogate % Recovery: 100 %

ND = Not Detected

BPQL = Below Practical Quantitation Limit



GREEN MOUNTAIN LABORATORIES, INC.

2 Moonlight Terrace
Montpelier, VT 05602
Phone (802) 262-2004

LABORATORY RESULTS

GC/MS METHOD - 8260M

GML REF. #: 275D
SAMPLE ID: MW-5
ANALYSIS DATE: 10/04/2010
SAMPLE DATE: 09/28/2010
SAMPLE TYPE: WATER

<u>PARAMETER</u>	<u>PQL (ug/L)</u>	<u>RESULT (ug/L)</u>
Methyl-t-butyl-ether (MTBE)	5	ND
Benzene	1	ND
1,2-Dichloroethane	1	ND
Toluene	1	ND
1,2-Dibromoethane	1	ND
Ethylbenzene	1	ND
Xylenes	3	ND
1,3,5-Trimethylbenzene	2	ND
1,2,4-Trimethylbenzene	2	ND
Naphthalene	5	ND

Surrogate % Recovery: 100 %

ND = Not Detected
BPQL = Below Practical Quantitation Limit

