July 21, 2006
File No: 446-325

Mr. Mauricio Roma
Environmental Analysis Bureau
New York State Department of Transportation
50 Wolf Road, POD # 41
Albany, New York 12232

RE: D015410, PIN 8807.31.101
Harrison Sub-Residency Petroleum Spill Site – NYSDEC Spill No: 94-07349
Town of Harrison Westchester County, New York
Sub-Slab Soil Gas Investigation Report

Dear Mr. Roma:

At your request and the request of the New York State Department of Health (NYSDOH), on March 27 and 28, 2006, HDR|LMS conducted a sub-slab soil gas investigation at two locations (Figure 1) within the sub-residency building beneath the concrete slab foundation. The sampling locations were chosen on the basis of both the current and historic geometry of the contaminant plume and building use observations, which were made by Dan Eaton of the New York State Department of Environmental Conservation (NYSDEC) in December 2005.

Purpose of the Investigation

The purpose of the sub-slab soil gas investigation is to assess the potential for vapor intrusion into the on-site sub-residency building from the potential presence of volatile organic compounds in the groundwater and/or sub-surface soil adjacent to and/or beneath the building.

Background

A contaminant groundwater plume (Figure 1) resulted from the release of diesel fuel to the soil at the site in 1994 (Attachment A). Remedial corrective action was taken, which included the installation of groundwater monitoring wells, sparge wells and an air-sparging/soil vapor extraction (AS/SVE) system. The AS/SVE system operated until October 2002 when it was taken off line because analytical results of groundwater

Figure 1

May 2004

October 2005

Legend

- > 25 ppb BTEX & MTBE
- > 50 ppb BTEX & MTBE
- > 100 ppb BTEX & MTBE (<500ppb)
- Proposed Soil Vapor Points

N
W E
S

30 15 0 30 Meters

NOTE: BTEX stands for benzene, toluene ethyl-benzene, and xylenes. MTBE for methyl-tertiary butyl ether. No MTBE has been detected since September 2003

Plume Contours: Approximate location of equal BTEX & MTBE concentrations in micrograms per liter (ug/l or ppb)

NYSDOT
Environmental Analysis Bureau
December 28, 2005

Harrison Subresidency, Westchester County. Petroleum (BTEX & MTBE) Contaminant Plume at the Water Table & Proposed Soil Vapor Points

monitoring indicated, and currently still indicates (Attachment B), that natural attenuation processes were/are effectively reducing and containing the plume.

Sampling Methods

On March 27, 2006 HDR|LMS drilled a 1.5-inch diameter core hole through approximately 4 inches of the floor and the underlying concrete slab foundation at sampling point SV-1, which is located within the office of the sub-residency building (Photograph 1). A second sampling point, SV-2, was drilled through approximately 12 inches of the concrete slab located within the garage of the sub-residency building (Photograph 2). The drill-bit was advanced approximately two inches into the soil beneath the slab at both locations. Both holes were temporarily sealed (Photographs 3 and 4) prior to sample collection activities.

On May 28, 2006, the temporary seals were removed and the openings of each sampling port were then sealed with a pharmaceutical-grade silicone rubber plug that included a stainless steel tube. A pressure gauge (manometer) was used to record air pressure (relative to ambient air pressure) at each of the sub-slab sampling ports (Attachment C). The tube was then fitted with a stainless steel Swagelok® compression fitting to securely connect the steel soil-gas sampling probe to a 6-liter Summa® Canister (Attachment D) and Teflon tubing (Photographs 5 and 6). The canisters were pre-set by a NYSDOH-approved laboratory to sample at approximately 12.5 ml/min.

The soil-gas sampling probe and Teflon tubing were initially purged ($\leq$0.2 l/min) with the use of a low-flow personal air sampling (PAS) pump. The total volume purged for each location was approximately 3 volumes of the tubing, sampling probe and the void space below the plug; the regulator was opened allowing the Summa® Canister to begin collecting the sample and, the data and time were recorded. Following an 8-hr. sample collection period the Summa® Canister regulator was closed and the time was recorded. The sample collection equipment was removed and the slab penetration at each location was temporarily sealed with a pharmaceutical-grade silicone rubber plug.

The canisters were shipped, under chain-of-custody, via an overnight currier to a NYSDOH-approved laboratory for VOC analyses by EPA T0-15.

Summary of Analytical Results

According to the New York State Department of Health Guidance for Evaluating Soil Vapor Intrusion in the State of New York (Public Comment Draft – February 2005), the State of New York does not have any standards, criteria or guidance values for concentrations of volatile chemicals in subsurface vapors (either soil vapor or sub-slab vapor). However, the NYSDOH has developed guidelines for trichloroethene (TCE) in air. In addition, the NYSDOH compiled a database of background levels of various volatile organic chemicals in air (indoor and outdoor). According to the NYSDOH, sub-slab soil vapor analytical results are compared to indoor background levels and the guidelines for volatile chemicals in air. Therefore the analytical data was compared to both the NYSDOH Background Levels for Indoor Air and the NYSDOH Air Guidance Values.

Laboratory analytical results (Attachment E) indicate the presence of nineteen organic compounds in the two soil gas samples (Table 1). Of the nineteen compounds detected in the sub-slab soil vapor samples, nine compounds were detected outside the range of background levels.

TABLE 1
SUB-SLAB SOIL GAS SAMPLING RESULTS
(March 2006)
Harrison Subresidency Petroleum Spill Site

PARAMETER (ug/m^3)	SV-1	SV-2	NYSDOH BACKGROUND LEVELS [a] (ug/m^3)	NYSDOH AIR GUIDANCE VALUES [b] (ug/m^3)
Dichlorodifluoromethane	740	U	*	*
Trichlorofluromethane	40	11	*	*
Acetone	130	110	10 - 46	*
Isopropyl Alcohol	U	29	*	*
Carbon Disulfide	U	5	*	*
n-Hexane	U	11	0.63 - 6.5	*
Methyl Ethyl Ketone	8.8	8	*	*
2,2,4-Trimethylpentane	26	31	*	*
n-Heptane	12	22	*	*
Trichloroethene	5.4	5.9	<0.25	5
Toluene	23	12	4.2 - 25	*
Ethylbenzene	8.3	9.6	0.43 - 2.8	*
Xylene (m,p)	16	13	0.52 - 4.7	*
Xylene (o)	7.8	3.9	0.39 - 3.1	*
Xylene (total)	24	17	*	*
Styrene	U	1.7	<0.25 - 0.68	*
1,3,5-Trimethylbenzene	6.9	U	<0.25 - 1.7	*
1,2,4-Trimethylbenzene	U	2.6	0.78 - 4.4	*
Naphthalene	40	U	*	*

(a) - Background Levels for Selected Compounds (Indoor Air 1997-2003), New York State Department of Health, Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Public Comment Draft, February 2005.
(b) - Air Guideline Values, Table 3.1, New York State Department of Health, Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Public Comment Draft, February 2005.
U - Compound analyzed but not detected at a concentration above the reporting limit.
* No Value Listed.
Shaded values exceed NYSDOH Background Levels (Indoor Air) (a).
Bold values exceed NYSDOH Air Guidance Values (b).

One compound (TCE) was detected in both samples [5.4 ug/m^3 (SV-1) and 5.9 ug/m^3 (SV-2)] above the average background level of <0.25 ug/m^3 and slightly above the guidance value of 5.0 ug/m^3.

Findings and Conclusions

The results of the sub-slab investigation were forwarded to the New York State Department of Environmental Conservation (NYSDEC) for review. The findings of the NYSDEC (Attachment F) state that the low levels of site-related volatile organic compounds detected in the sub-slab vapor of the on-site building indicate that the potential for exposure to site-related compounds via indoor vapor intrusion is unlikely. In addition, the presence of non-site related compounds (e.g. acetone, TCE) at the levels detected in the sub-slab soil vapor do not represent an exposure concern considering the current use of the building. We, the NYSDOT and HDR|LMS, concur with the NYSDEC's assessment.

If you have any questions or comments please feel free to contact me at 845-294-2789 (ext. 23).

Very truly yours,

Theresa M. Schneider

Theresa M. Schneider
Senior Project Geologist
Environmental Liability & Management

Enc.

Cc: Gretchen Teal, NYSDOT – Region 8

ATTACHMENT A

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 9407349

Spill Date/Time

Spill Date: 08/31/1994 **Spill Time:** 10:50 AM
Call Received Date: 08/31/1994 **Call Received Time:** 11:27 AM

Location

Spill Name: NYS DOT
Address: RT 120
City: HARRISON **County:** Westchester

Spill Description

Material Spilled:
Diesel

Amount Spilled:
0.0000 lbs.

Cause: Tank Failure
Source: Institutional, Educational, Gov., Other
Resource Affected: Soil
Waterbody:

Record Close

Date Spill Closed: Not closed

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Other Links of Interest

ATTACHMENT B

TABLE 1-3
MONITORING WELL DATA SUMMARY
ROUND 7 (October 2005/March 2006)
Harrison Subresidency Petroleum Spill Site

MONITORING WELLS	BASELINE (May 2000)	Round 1 (Jan 2001)	Round 2 (May 2001)	Round 3 (Jan 2002)	Round 4 (Jan 2003)	Round 5 (Sep 2003)	Round 6 (May 2004)	Round 7 (Oct 2005/Mar 2006**)	% REMOVAL
BTEX µg/L									
MW-1	ND	ND	ND	ND	ND	ND	ND	ND	100%
MW-2	17	4	ND	ND	ND	ND	ND	ND	100%
MW-3	**960**	2	**174**	**156**	**132**	**181**	77	42	96%
MW-4	39	2	3	ND	17	ND	1	ND	100%
MW-5	**916**	45	**233**	4	**250**	ND	**143**	**235**	74%
MW-6	**225**	21	6	30	94	16	**128**	74	67%
MW-7	18	ND	ND	ND	ND	ND	ND	ND	100%
MW-8	**396**	ND	36	7	3	1	57	16	96%
MW-9	ND	ND	ND	ND	ND	ND	ND	ND	100%
MW-11**	NA	NA	NA	NA	NA	NA	NA	24	NA
PC-1	ND	ND	NA	NA	ND	ND	ND	ND	100%
SP-1	20	ND	ND	3	**222***	NA	NA	NA	UNRELIABLE DATA
SP-1B	11	NA	1	NA	11	38	10	ND	100%
SP-2	**217**	NA	1	58	15	13	61	NA	NA
SP-3	**586**	NA	16	ND	ND	ND	ND	ND	100%
SP-4	75	NA	ND	5	34	ND	ND	ND	100%
GP-2	-	-	-	-	ND	ND	ND	NA	NA
AVERAGE (w/ND's)	**232**	**7**	**33**	**20**	**37**	**17**	**33**	**28**	**88%**

MONITORING WELLS	BASELINE (May 2000)	Round 1 (Jan 2001)	Round 2 (May 2001)	Round 3 (Jan 2002)	Round 4 (Jan 2003)	Round 5 (Sep 2003)	Round 6 (May 2004)	Round 7 (Oct 2005/Mar 2006**)	% REMOVAL
MTBE (µg/L)									
MW-1	ND	**54**	ND	ND	ND	ND	ND	ND	100%
MW-2	6	15	ND	ND	ND	ND	ND	ND	100%
MW-3	50	21	ND	ND	ND	ND	ND	ND	100%
MW-4	13	3	ND	ND	ND	ND	ND	ND	100%
MW-5	**150**	ND	ND	ND	ND	ND	ND	ND	100%
MW-6	**73**	20	ND	ND	ND	ND	ND	ND	100%
MW-7	16	38	17	ND	ND	ND	ND	ND	100%
MW-8	**68**	6	ND	ND	ND	ND	ND	ND	100%
MW-9	ND	ND	ND	ND	ND	ND	ND	ND	100%
MW-11**	NA	NA	NA	NA	NA	NA	NA	ND	NA
PC-1	ND	ND	NA	NA	6	ND	ND	ND	NA
SP-1	3	31	ND	ND	ND*	NA	NA	NA	UNRELIABLE DATA
SP-1B	5	NA	ND	NA	ND	ND	ND	ND	100%
SP-2	18	NA	14	ND	ND	ND	ND	NA	100%
SP-3	38	NA	7	ND	ND	ND	ND	ND	100%
SP-4	24	31	ND	ND	ND	ND	ND	ND	100%
GP-2	-	-	-	-	3	ND	ND	NA	NA
AVERAGE (w/ND's)	**31**	**18**	**3**	**0**	**1**	**0**	**0**	**0**	**100%**

Notes:
Bolded values exceed clean up goal of 100 µg/L for BTEX and 50 µg/L for MTBE.
Red font denotes active quarter.
* Well SP-1 has silted up, almost to water table, hence concentration data collected is deemed unreliable.
** New Well installed by NYSDOT (February 2006). Well was sampled March 28 2006.

ATTACHMENT C

HDR | LMS

Soil - Gas Boring Log

Project Name:	Harrison Petroleum Spill Site
Client:	NYSDOT
Drilling/Boring Method:	Hand Drilled
Pumping Method:	SKC Lo Flow
Boring Location:	SV-1 (inside office); SV-2 (inside garage bldg.)

Crew:	MEL/PA
Sheet	1 of 1
Project No.:	446-325
Date:	Start: 3/28/2006
	Finish: 3/28/2006
Pump ID:	SKC Lo Flow
Hole Diameter:	~ 1.5 inches

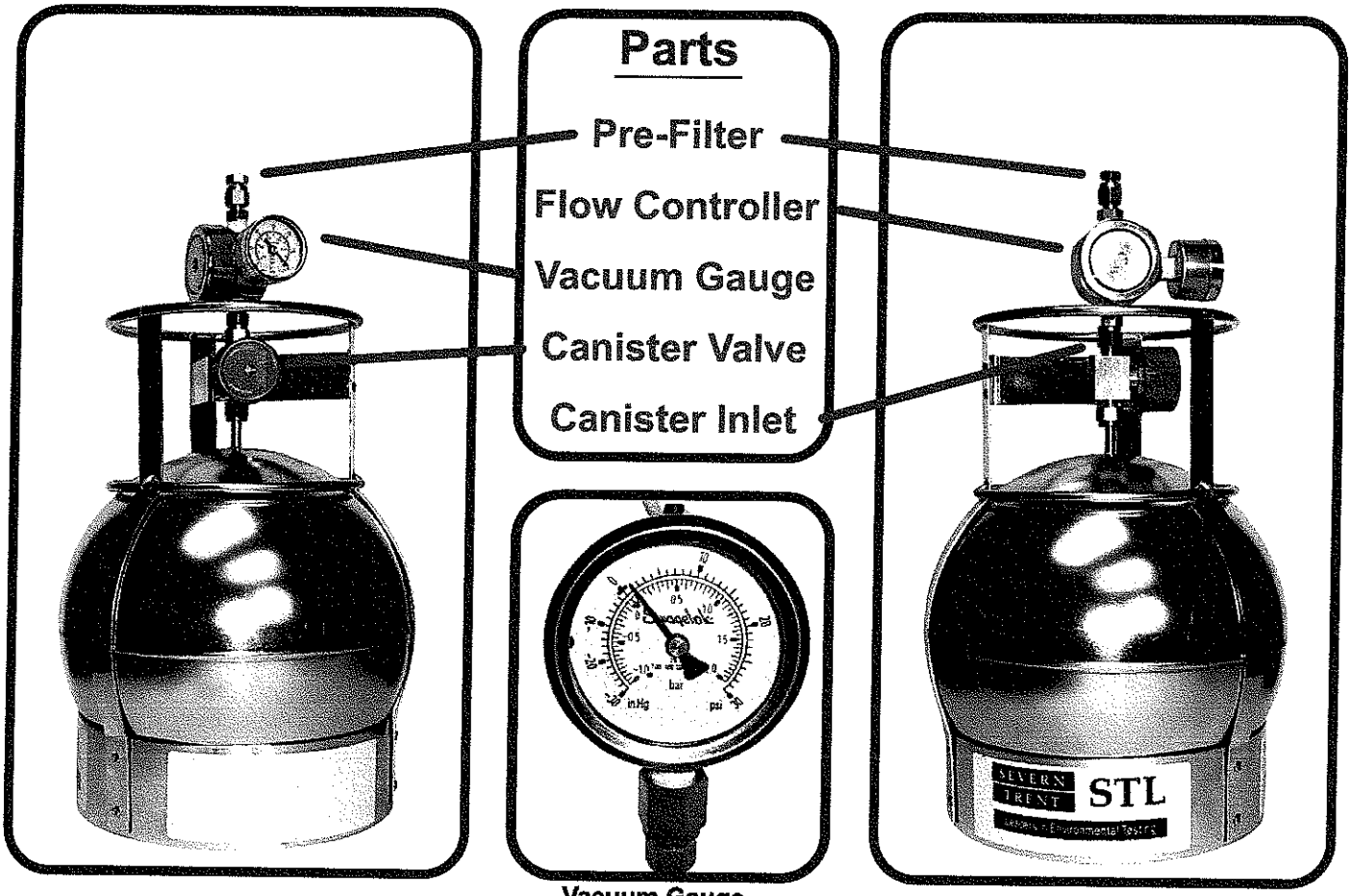
Sample ID	Start Time / End Time	Depth of Sampling Point (ft)	Canister ID	Regulator Serial No	Manometer Reading	Start/Stop Pressure (" Hg)	PID Reading (Background)	PID Reading	Comments
SV-1	956 1754	sub-slab ~ 4 in	3418/ 5136	1483	0.03	26.0 7	N/A	N/A	PID Background reading collected from an upwind location.
SV-2	939 1711	sub-slab ~ 12 in	3885/ 1654	9278	0.03	30 6	0.0-0.2	0.0-0.2	

Note: Start Time and End Time refers to Start Time and End Time for sample collection only.

ATTACHMENT D

SEVERN TRENT **STL**

Canister Sampling Instructions



Vacuum Gauge

1. Remove the dust cap from the canister valve.

2. GRAB SAMPLES: Attach the vacuum gauge (using a 9/16" wrench) to the canister inlet, open the canister valve, and note the vacuum reading on the sample tag attached to the canister. Close the canister valve, disconnect the vacuum gauge, and go to step 5.

3. TIME INTEGRATED SAMPLES: Attach the flow controller (1/4" female Swagelock fitting) to the "canister inlet" (1/4" male Swagelock fitting), tightening the threaded nut until it is hand tight. **NOTE:** be careful not to cross the threads.

4. Use a 9/16-inch wrench to completely tighten the flow controller to the canister inlet. **NOTE:** Once completely tightened to the canister, the flow controller should not be able to be turned on the top of the canister by hand.

5. To start sampling, turn the canister valve one and 1/2 to two turns. Note the start time on the sample tag attached to the canister (TIME INTEGRATED SAMPLES: Check the initial vacuum of the canister with the "vacuum gauge" provided by opening the canister valve and record the vacuum reading on the sample tag attached to the canister).

6. To stop sampling, note the stop time, check and note the final vacuum, and close the canister valve at the end point, by turning clockwise until snug. If the valve is not closed at the end point the canister will eventually go to ambient pressure.

7. After closing the valve, remove the flow controller from the canister, replace the dust cap, and place all equipment in the packaging and box in which they were received. Complete the chain of custody form and return the samples to STL.

ATTACHMENT E

STL Burlington
Colchester, Vermont

Sample Data Summary Package

SDG: NY113435

SEVERN TRENT STL®

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

Tel: 802 655 1203 Fax: 802 655 1248
www.stl-inc.com

April 21, 2006

Mr. Terry Schneider
HDR LMS
East Gate Corporate Park
7 Coates Drive, Suite 2
Goshen, NY 10924

Re: Laboratory Project No. HARRISON
Case: HARRISON; SDG: 113435

Dear Mr. Schneider:

Enclosed are the analytical results for the samples that were received by STL Burlington on March 29th, 2006. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 03/29/06 ETR No: 113435		
663315	SV-1	03/28/06	Air
663316	SV-2	03/28/06	Air

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

Method TO-15 – Volatile Organics:
The analyses of the field samples SV-1 and SV-2 in this delivery group was accomplished at a dilution in order to provide quantification of all target analytes within the calibrated range of instrument response. The results of the dilution analyses were within the calibration range of the instrument.

The analysis of the blank spike duplicate sample designated BENALCSD exhibited percent recoveries for the target compound Naphthalene that was marginally below the control limits (70-130%) at 67%. The results for relative percent differences in the interanalysis comparisons were within the established control limits in each case, as noted on the analytical Form 3s.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and extracted ion current profiles are included in the data package.

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 655-1203.

Sincerely,

Ron Pentkowski
Project Manager

Enclosure

STL Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified in project QA plan, the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P	ICP-AES
MS	ICP-MS
CV	Cold Vapor AA
AS	Semi-Automated Spectrophotometric

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

HDRLMS SAMPLE NO.

SV-1

Lab Name: STL BURLINGTON Contract: 26000

Lab Code: STLVT Case No.: HARRISON SAS No.: SDG No.: NY113435

Matrix: (soil/water) AIR Lab Sample ID: 663315

Sample wt/vol: 50.00 (g/mL) ML Lab File ID: 663315D

Level: (low/med) LOW Date Received: 03/29/06

% Moisture: not dec. _____ Date Analyzed: 04/17/06

GC Column: RTX-624 ID: 0.32 (mm) Dilution Factor: 4.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
75-71-8	Dichlorodifluoromethane	150	
76-14-2	1,2-Dichlorotetrafluoroethan	0.80	U
74-87-3	Chloromethane	2.0	U
75-01-4	Vinyl Chloride	0.80	U
106-99-0	1,3-Butadiene	2.0	U
74-83-9	Bromomethane	0.80	U
75-00-3	Chloroethane	0.80	U
593-60-2	Bromoethene	0.80	U
75-69-4	Trichlorofluoromethane	7.2	
76-13-1	Freon TF	0.80	U
75-35-4	1,1-Dichloroethene	0.80	U
67-64-1	Acetone	53	
67-63-0	Isopropyl Alcohol	20	U
75-15-0	Carbon Disulfide	2.0	U
107-05-1	3-Chloropropene	2.0	U
75-09-2	Methylene Chloride	2.0	U
75-65-0	tert-Butyl Alcohol	20	U
1634-04-4	Methyl tert-Butyl Ether	2.0	U
156-60-5	trans-1,2-Dichloroethene	0.80	U
110-54-3	n-Hexane	2.0	U
75-34-3	1,1-Dichloroethane	0.80	U
540-59-0	1,2-Dichloroethene (total)	0.80	U
78-93-3	Methyl Ethyl Ketone	3.0	
156-59-2	cis-1,2-Dichloroethene	0.80	U
109-99-9	Tetrahydrofuran	20	U
67-66-3	Chloroform	0.80	U
71-55-6	1,1,1-Trichloroethane	0.80	U
110-82-7	Cyclohexane	0.80	U
56-23-5	Carbon Tetrachloride	0.80	U
540-84-1	2,2,4-Trimethylpentane	5.5	
71-43-2	Benzene	0.80	U
107-06-2	1,2-Dichloroethane	0.80	U
142-82-5	n-Heptane	3.0	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

HDRLMS SAMPLE NO.

SV-1

Lab Name: STL BURLINGTON Contract: 26000

Lab Code: STLVT Case No.: HARRISON SAS No.: SDG No.: NY113435

Matrix: (soil/water) AIR Lab Sample ID: 663315

Sample wt/vol: 50.00 (g/mL) ML Lab File ID: 663315D

Level: (low/med) LOW Date Received: 03/29/06

% Moisture: not dec. _____ Date Analyzed: 04/17/06

GC Column: RTX-624 ID: 0.32 (mm) Dilution Factor: 4.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
79-01-6	Trichloroethene	1.0	
80-62-6	Methyl Methacrylate	2.0	U
78-87-5	1,2-Dichloropropane	0.80	U
123-91-1	1,4-Dioxane	20	U
75-27-4	Bromodichloromethane	0.80	U
10061-01-5	cis-1,3-Dichloropropene	0.80	U
108-10-1	Methyl Isobutyl Ketone	2.0	U
108-88-3	Toluene	6.0	
10061-02-6	trans-1,3-Dichloropropene	0.80	U
79-00-5	1,1,2-Trichloroethane	0.80	U
127-18-4	Tetrachloroethene	0.80	U
591-78-6	Methyl Butyl Ketone	2.0	U
124-48-1	Dibromochloromethane	0.80	U
106-93-4	1,2-Dibromoethane	0.80	U
108-90-7	Chlorobenzene	0.80	U
100-41-4	Ethylbenzene	1.9	
1330-20-7	Xylene (m,p)	3.7	
95-47-6	Xylene (o)	1.8	
1330-20-7	Xylene (total)	5.5	
100-42-5	Styrene	0.80	U
75-25-2	Bromoform	0.80	U
79-34-5	1,1,2,2-Tetrachloroethane	0.80	U
622-96-8	4-Ethyltoluene	0.80	U
108-67-8	1,3,5-Trimethylbenzene	1.4	
95-49-8	2-Chlorotoluene	0.80	U
95-63-6	1,2,4-Trimethylbenzene	3.8	
541-73-1	1,3-Dichlorobenzene	0.80	U
106-46-7	1,4-Dichlorobenzene	0.80	U
95-50-1	1,2-Dichlorobenzene	0.80	U
120-82-1	1,2,4-Trichlorobenzene	2.0	U
87-68-3	Hexachlorobutadiene	0.80	U
91-20-3	Naphthalene	7.6	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

HDRLMS SAMPLE NO.

SV-2

Lab Name: STL BURLINGTON Contract: 26000

Lab Code: STLVT Case No.: HARRISON SAS No.: SDG No.: NY113435

Matrix: (soil/water) AIR Lab Sample ID: 663316

Sample wt/vol: 100.0 (g/mL) ML Lab File ID: 663316

Level: (low/med) LOW Date Received: 03/29/06

% Moisture: not dec. _____ Date Analyzed: 04/18/06

GC Column: RTX-624 ID: 0.32 (mm) Dilution Factor: 2.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
75-71-8	Dichlorodifluoromethane	1.0	U
76-14-2	1,2-Dichlorotetrafluoroethan	0.40	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	0.40	U
106-99-0	1,3-Butadiene	1.0	U
74-83-9	Bromomethane	0.40	U
75-00-3	Chloroethane	0.40	U
593-60-2	Bromoethene	0.40	U
75-69-4	Trichlorofluoromethane	2.0	
76-13-1	Freon TF	0.40	U
75-35-4	1,1-Dichloroethene	0.40	U
67-64-1	Acetone	48	
67-63-0	Isopropyl Alcohol	12	
75-15-0	Carbon Disulfide	1.6	
107-05-1	3-Chloropropene	1.0	U
75-09-2	Methylene Chloride	1.0	U
75-65-0	tert-Butyl Alcohol	10	U
1634-04-4	Methyl tert-Butyl Ether	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.40	U
110-54-3	n-Hexane	3.2	
75-34-3	1,1-Dichloroethane	0.40	U
540-59-0	1,2-Dichloroethene (total)	0.40	U
78-93-3	Methyl Ethyl Ketone	2.7	
156-59-2	cis-1,2-Dichloroethene	0.40	U
109-99-9	Tetrahydrofuran	10	U
67-66-3	Chloroform	0.40	U
71-55-6	1,1,1-Trichloroethane	0.40	U
110-82-7	Cyclohexane	0.40	U
56-23-5	Carbon Tetrachloride	0.40	U
540-84-1	2,2,4-Trimethylpentane	6.7	
71-43-2	Benzene	0.40	U
107-06-2	1,2-Dichloroethane	0.40	U
142-82-5	n-Heptane	5.4	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

HDRLMS SAMPLE NO.

SV-2

Lab Name: STL BURLINGTON Contract: 26000

Lab Code: STLVT Case No.: HARRISON SAS No.: SDG No.: NY113435

Matrix: (soil/water) AIR Lab Sample ID: 663316

Sample wt/vol: 100.0 (g/mL) ML Lab File ID: 663316

Level: (low/med) LOW Date Received: 03/29/06

% Moisture: not dec. _____ Date Analyzed: 04/18/06

GC Column: RTX-624 ID: 0.32 (mm) Dilution Factor: 2.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
79-01-6	Trichloroethene	1.1	
80-62-6	Methyl Methacrylate	1.0	U
78-87-5	1,2-Dichloropropane	0.40	U
123-91-1	1,4-Dioxane	10	U
75-27-4	Bromodichloromethane	0.40	U
10061-01-5	cis-1,3-Dichloropropene	0.40	U
108-10-1	Methyl Isobutyl Ketone	1.0	U
108-88-3	Toluene	3.3	
10061-02-6	trans-1,3-Dichloropropene	0.40	U
79-00-5	1,1,2-Trichloroethane	0.40	U
127-18-4	Tetrachloroethene	0.40	U
591-78-6	Methyl Butyl Ketone	1.0	U
124-48-1	Dibromochloromethane	0.40	U
106-93-4	1,2-Dibromoethane	0.40	U
108-90-7	Chlorobenzene	0.40	U
100-41-4	Ethylbenzene	2.2	
1330-20-7	Xylene (m,p)	3.0	
95-47-6	Xylene (o)	0.90	
1330-20-7	Xylene (total)	4.0	
100-42-5	Styrene	0.40	
75-25-2	Bromoform	0.40	U
79-34-5	1,1,2,2-Tetrachloroethane	0.40	U
622-96-8	4-Ethyltoluene	0.40	U
108-67-8	1,3,5-Trimethylbenzene	0.40	U
95-49-8	2-Chlorotoluene	0.40	U
95-63-6	1,2,4-Trimethylbenzene	0.53	
541-73-1	1,3-Dichlorobenzene	0.40	U
106-46-7	1,4-Dichlorobenzene	0.40	U
95-50-1	1,2-Dichlorobenzene	0.40	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	0.40	U
91-20-3	Naphthalene	1.0	U

TO-14/15
Result Summary

CLIENT SAMPLE NO.

SV-1

Lab Name: STL Burlington

SDG Number: NY113435

Case Number:

Sample Matrix: Air

Lab Sample No.: 663315

Date Analyzed: 04/17/2006

Date Received: 03/29/2006

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Dichlorodifluoromethane	75-71-8	150		2.0	740		9.9
1,2-Dichlorotetrafluoroethane	76-14-2	0.80	U	0.80	5.6	U	5.6
Chloromethane	74-87-3	2.0	U	2.0	4.1	U	4.1
Vinyl Chloride	75-01-4	0.80	U	0.80	2.0	U	2.0
1,3-Butadiene	106-99-0	2.0	U	2.0	4.4	U	4.4
Bromomethane	74-83-9	0.80	U	0.80	3.1	U	3.1
Chloroethane	75-00-3	0.80	U	0.80	2.1	U	2.1
Bromoethene	593-60-2	0.80	U	0.80	3.5	U	3.5
Trichlorofluoromethane	75-69-4	7.2		0.80	40		4.5
Freon TF	76-13-1	0.80	U	0.80	6.1	U	6.1
1,1-Dichloroethene	75-35-4	0.80	U	0.80	3.2	U	3.2
Acetone	67-64-1	53		20	130		48
Isopropyl Alcohol	67-63-0	20	U	20	49	U	49
Carbon Disulfide	75-15-0	2.0	U	2.0	6.2	U	6.2
3-Chloropropene	107-05-1	2.0	U	2.0	6.3	U	6.3
Methylene Chloride	75-09-2	2.0	U	2.0	6.9	U	6.9
tert-Butyl Alcohol	75-65-0	20	U	20	61	U	61
Methyl tert-Butyl Ether	1634-04-4	2.0	U	2.0	7.2	U	7.2
trans-1,2-Dichloroethene	156-60-5	0.80	U	0.80	3.2	U	3.2
n-Hexane	110-54-3	2.0	U	2.0	7.0	U	7.0
1,1-Dichloroethane	75-34-3	0.80	U	0.80	3.2	U	3.2
1,2-Dichloroethene (total)	540-59-0	0.80	U	0.80	3.2	U	3.2
Methyl Ethyl Ketone	78-93-3	3.0		2.0	8.8		5.9
cis-1,2-Dichloroethene	156-59-2	0.80	U	0.80	3.2	U	3.2
Tetrahydrofuran	109-99-9	20	U	20	59	U	59
Chloroform	67-66-3	0.80	U	0.80	3.9	U	3.9
1,1,1-Trichloroethane	71-55-6	0.80	U	0.80	4.4	U	4.4
Cyclohexane	110-82-7	0.80	U	0.80	2.8	U	2.8
Carbon Tetrachloride	56-23-5	0.80	U	0.80	5.0	U	5.0
2,2,4-Trimethylpentane	540-84-1	5.5		0.80	26		3.7
Benzene	71-43-2	0.80	U	0.80	2.6	U	2.6
1,2-Dichloroethane	107-06-2	0.80	U	0.80	3.2	U	3.2
n-Heptane	142-82-5	3.0		0.80	12		3.3

TO-14/15
Result Summary

CLIENT SAMPLE NO.

SV-1

Lab Name: STL Burlington

SDG Number: NY113435

Case Number:

Sample Matrix: Air

Lab Sample No.: 663315

Date Analyzed: 04/17/2006

Date Received: 03/29/2006

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Trichloroethene	79-01-6	1.0		0.80	5.4		4.3
Methyl Methacrylate	80-62-6	2.0	U	2.0	8.2	U	8.2
1,2-Dichloropropane	78-87-5	0.80	U	0.80	3.7	U	3.7
1,4-Dioxane	123-91-1	20	U	20	72	U	72
Bromodichloromethane	75-27-4	0.80	U	0.80	5.4	U	5.4
cis-1,3-Dichloropropene	10061-01-5	0.80	U	0.80	3.6	U	3.6
Methyl Isobutyl Ketone	108-10-1	2.0	U	2.0	8.2	U	8.2
Toluene	108-88-3	6.0		0.80	23		3.0
trans-1,3-Dichloropropene	10061-02-6	0.80	U	0.80	3.6	U	3.6
1,1,2-Trichloroethane	79-00-5	0.80	U	0.80	4.4	U	4.4
Tetrachloroethene	127-18-4	0.80	U	0.80	5.4	U	5.4
Methyl Butyl Ketone	591-78-6	2.0	U	2.0	8.2	U	8.2
Dibromochloromethane	124-48-1	0.80	U	0.80	6.8	U	6.8
1,2-Dibromoethane	106-93-4	0.80	U	0.80	6.1	U	6.1
Chlorobenzene	108-90-7	0.80	U	0.80	3.7	U	3.7
Ethylbenzene	100-41-4	1.9		0.80	8.3		3.5
Xylene (m,p)	1330-20-7	3.7		2.0	16		8.7
Xylene (o)	95-47-6	1.8		0.80	7.8		3.5
Xylene (total)	1330-20-7	5.5		0.80	24		3.5
Styrene	100-42-5	0.80	U	0.80	3.4	U	3.4
Bromoform	75-25-2	0.80	U	0.80	8.3	U	8.3
1,1,2,2-Tetrachloroethane	79-34-5	0.80	U	0.80	5.5	U	5.5
4-Ethyltoluene	622-96-8	0.80	U	0.80	3.9	U	3.9
1,3,5-Trimethylbenzene	108-67-8	1.4		0.80	6.9		3.9
2-Chlorotoluene	95-49-8	0.80	U	0.80	4.1	U	4.1
1,2,4-Trimethylbenzene	95-63-6	3.8		0.80	19		3.9
1,3-Dichlorobenzene	541-73-1	0.80	U	0.80	4.8	U	4.8
1,4-Dichlorobenzene	106-46-7	0.80	U	0.80	4.8	U	4.8
1,2-Dichlorobenzene	95-50-1	0.80	U	0.80	4.8	U	4.8
1,2,4-Trichlorobenzene	120-82-1	2.0	U	2.0	15	U	15
Hexachlorobutadiene	87-68-3	0.80	U	0.80	8.5	U	8.5
Naphthalene	91-20-3	7.6		2.0	40		10

TO-14/15
Result Summary

CLIENT SAMPLE NO.

SV-2

Lab Name: STL Burlington

SDG Number: NY113435

Case Number:

Sample Matrix: Air

Lab Sample No.: 663316

Date Analyzed: 04/18/2006

Date Received: 03/29/2006

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Dichlorodifluoromethane	75-71-8	1.0	U	1.0	4.9	U	4.9
1,2-Dichlorotetrafluoroethane	76-14-2	0.40	U	0.40	2.8	U	2.8
Chloromethane	74-87-3	1.0	U	1.0	2.1	U	2.1
Vinyl Chloride	75-01-4	0.40	U	0.40	1.0	U	1.0
1,3-Butadiene	106-99-0	1.0	U	1.0	2.2	U	2.2
Bromomethane	74-83-9	0.40	U	0.40	1.6	U	1.6
Chloroethane	75-00-3	0.40	U	0.40	1.1	U	1.1
Bromoethene	593-60-2	0.40	U	0.40	1.7	U	1.7
Trichlorofluoromethane	75-69-4	2.0		0.40	11		2.2
Freon TF	76-13-1	0.40	U	0.40	3.1	U	3.1
1,1-Dichloroethene	75-35-4	0.40	U	0.40	1.6	U	1.6
Acetone	67-64-1	48		10	110		24
Isopropyl Alcohol	67-63-0	12		10	29		25
Carbon Disulfide	75-15-0	1.6		1.0	5.0		3.1
3-Chloropropene	107-05-1	1.0	U	1.0	3.1	U	3.1
Methylene Chloride	75-09-2	1.0	U	1.0	3.5	U	3.5
tert-Butyl Alcohol	75-65-0	10	U	10	30	U	30
Methyl tert-Butyl Ether	1634-04-4	1.0	U	1.0	3.6	U	3.6
trans-1,2-Dichloroethene	156-60-5	0.40	U	0.40	1.6	U	1.6
n-Hexane	110-54-3	3.2		1.0	11		3.5
1,1-Dichloroethane	75-34-3	0.40	U	0.40	1.6	U	1.6
1,2-Dichloroethene (total)	540-59-0	0.40	U	0.40	1.6	U	1.6
Methyl Ethyl Ketone	78-93-3	2.7		1.0	8.0		2.9
cis-1,2-Dichloroethene	156-59-2	0.40	U	0.40	1.6	U	1.6
Tetrahydrofuran	109-99-9	10	U	10	29	U	29
Chloroform	67-66-3	0.40	U	0.40	2.0	U	2.0
1,1,1-Trichloroethane	71-55-6	0.40	U	0.40	2.2	U	2.2
Cyclohexane	110-82-7	0.40	U	0.40	1.4	U	1.4
Carbon Tetrachloride	56-23-5	0.40	U	0.40	2.5	U	2.5
2,2,4-Trimethylpentane	540-84-1	6.7		0.40	31		1.9
Benzene	71-43-2	0.40	U	0.40	1.3	U	1.3
1,2-Dichloroethane	107-06-2	0.40	U	0.40	1.6	U	1.6
n-Heptane	142-82-5	5.4		0.40	22		1.6

TO-14/15
Result Summary

CLIENT SAMPLE NO.

SV-2

Lab Name: STL Burlington

SDG Number: NY113435

Case Number:

Sample Matrix: Air

Lab Sample No.: 663316

Date Analyzed: 04/18/2006

Date Received: 03/29/2006

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Trichloroethene	79-01-6	1.1		0.40	5.9		2.1
Methyl Methacrylate	80-62-6	1.0	U	1.0	4.1	U	4.1
1,2-Dichloropropane	78-87-5	0.40	U	0.40	1.8	U	1.8
1,4-Dioxane	123-91-1	10	U	10	36	U	36
Bromodichloromethane	75-27-4	0.40	U	0.40	2.7	U	2.7
cis-1,3-Dichloropropene	10061-01-5	0.40	U	0.40	1.8	U	1.8
Methyl Isobutyl Ketone	108-10-1	1.0	U	1.0	4.1	U	4.1
Toluene	108-88-3	3.3		0.40	12		1.5
trans-1,3-Dichloropropene	10061-02-6	0.40	U	0.40	1.8	U	1.8
1,1,2-Trichloroethane	79-00-5	0.40	U	0.40	2.2	U	2.2
Tetrachloroethene	127-18-4	0.40	U	0.40	2.7	U	2.7
Methyl Butyl Ketone	591-78-6	1.0	U	1.0	4.1	U	4.1
Dibromochloromethane	124-48-1	0.40	U	0.40	3.4	U	3.4
1,2-Dibromoethane	106-93-4	0.40	U	0.40	3.1	U	3.1
Chlorobenzene	108-90-7	0.40	U	0.40	1.8	U	1.8
Ethylbenzene	100-41-4	2.2		0.40	9.6		1.7
Xylene (m,p)	1330-20-7	3.0		1.0	13		4.3
Xylene (o)	95-47-6	0.90		0.40	3.9		1.7
Xylene (total)	1330-20-7	4.0		0.40	17		1.7
Styrene	100-42-5	0.40		0.40	1.7		1.7
Bromoform	75-25-2	0.40	U	0.40	4.1	U	4.1
1,1,2,2-Tetrachloroethane	79-34-5	0.40	U	0.40	2.7	U	2.7
4-Ethyltoluene	622-96-8	0.40	U	0.40	2.0	U	2.0
1,3,5-Trimethylbenzene	108-67-8	0.40	U	0.40	2.0	U	2.0
2-Chlorotoluene	95-49-8	0.40	U	0.40	2.1	U	2.1
1,2,4-Trimethylbenzene	95-63-6	0.53		0.40	2.6		2.0
1,3-Dichlorobenzene	541-73-1	0.40	U	0.40	2.4	U	2.4
1,4-Dichlorobenzene	106-46-7	0.40	U	0.40	2.4	U	2.4
1,2-Dichlorobenzene	95-50-1	0.40	U	0.40	2.4	U	2.4
1,2,4-Trichlorobenzene	120-82-1	1.0	U	1.0	7.4	U	7.4
Hexachlorobutadiene	87-68-3	0.40	U	0.40	4.3	U	4.3
Naphthalene	91-20-3	1.0	U	1.0	5.2	U	5.2

TO-14/15
Result Summary

CLIENT SAMPLE NO.

BENALCS

Lab Name: STL Burlington

SDG Number: NY113435

Case Number:

Sample Matrix: AIR

Lab Sample No.: BENALCS

Date Analyzed: 04/17/2006

Date Received: / /

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Dichlorodifluoromethane	75-71-8	11		0.50	54		2.5
1,2-Dichlorotetrafluoroethane	76-14-2	10		0.20	70		1.4
Chloromethane	74-87-3	9.5		0.50	20		1.0
Vinyl Chloride	75-01-4	9.3		0.20	24		0.51
1,3-Butadiene	106-99-0	9.2		0.50	20		1.1
Bromomethane	74-83-9	9.6		0.20	37		0.78
Chloroethane	75-00-3	9.1		0.20	24		0.53
Bromoethene	593-60-2	8.8		0.20	38		0.87
Trichlorofluoromethane	75-69-4	10		0.20	56		1.1
Freon TF	76-13-1	9.0		0.20	69		1.5
1,1-Dichloroethene	75-35-4	8.3		0.20	33		0.79
Acetone	67-64-1	9.4		5.0	22		12
Isopropyl Alcohol	67-63-0	8.6		5.0	21		12
Carbon Disulfide	75-15-0	8.6		0.50	27		1.6
3-Chloropropene	107-05-1	8.2		0.50	26		1.6
Methylene Chloride	75-09-2	8.5		0.50	30		1.7
tert-Butyl Alcohol	75-65-0	8.9		5.0	27		15
Methyl tert-Butyl Ether	1634-04-4	9.2		0.50	33		1.8
trans-1,2-Dichloroethene	156-60-5	8.6		0.20	34		0.79
n-Hexane	110-54-3	8.5		0.50	30		1.8
1,1-Dichloroethane	75-34-3	8.5		0.20	34		0.81
1,2-Dichloroethene (total)	540-59-0	17		0.20	67		0.79
Methyl Ethyl Ketone	78-93-3	8.4		0.50	25		1.5
cis-1,2-Dichloroethene	156-59-2	8.8		0.20	35		0.79
Tetrahydrofuran	109-99-9	9.0		5.0	27		15
Chloroform	67-66-3	9.3		0.20	45		0.98
1,1,1-Trichloroethane	71-55-6	9.9		0.20	54		1.1
Cyclohexane	110-82-7	9.1		0.20	31		0.69
Carbon Tetrachloride	56-23-5	10		0.20	63		1.3
2,2,4-Trimethylpentane	540-84-1	8.3		0.20	39		0.93
Benzene	71-43-2	8.3		0.20	27		0.64
1,2-Dichloroethane	107-06-2	9.4		0.20	38		0.81
n-Heptane	142-82-5	8.2		0.20	34		0.82

TO-14/15
Result Summary

CLIENT SAMPLE NO.

BENALCS

Lab Name: STL Burlington

SDG Number: NY113435

Case Number:

Sample Matrix: AIR

Lab Sample No.: BENALCS

Date Analyzed: 04/17/2006

Date Received: / /

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Trichloroethene	79-01-6	9.5		0.20	51		1.1
Methyl Methacrylate	80-62-6	8.8		0.50	36		2.0
1,2-Dichloropropane	78-87-5	8.3		0.20	38		0.92
1,4-Dioxane	123-91-1	8.2		5.0	30		18
Bromodichloromethane	75-27-4	9.2		0.20	62		1.3
cis-1,3-Dichloropropene	10061-01-5	8.5		0.20	39		0.91
Methyl Isobutyl Ketone	108-10-1	9.2		0.50	38		2.0
Toluene	108-88-3	9.3		0.20	35		0.75
trans-1,3-Dichloropropene	10061-02-6	9.0		0.20	41		0.91
1,1,2-Trichloroethane	79-00-5	9.8		0.20	53		1.1
Tetrachloroethene	127-18-4	12		0.20	81		1.4
Methyl Butyl Ketone	591-78-6	10		0.50	41		2.0
Dibromochloromethane	124-48-1	11		0.20	94		1.7
1,2-Dibromoethane	106-93-4	10		0.20	77		1.5
Chlorobenzene	108-90-7	9.0		0.20	41		0.92
Ethylbenzene	100-41-4	9.4		0.20	41		0.87
Xylene (m,p)	1330-20-7	19		0.50	83		2.2
Xylene (o)	95-47-6	9.9		0.20	43		0.87
Xylene (total)	1330-20-7	29		0.20	130		0.87
Styrene	100-42-5	9.9		0.20	42		0.85
Bromoform	75-25-2	12		0.20	120		2.1
1,1,2,2-Tetrachloroethane	79-34-5	9.6		0.20	66		1.4
4-Ethyltoluene	622-96-8	10		0.20	49		0.98
1,3,5-Trimethylbenzene	108-67-8	10		0.20	49		0.98
2-Chlorotoluene	95-49-8	10		0.20	52		1.0
1,2,4-Trimethylbenzene	95-63-6	10		0.20	49		0.98
1,3-Dichlorobenzene	541-73-1	11		0.20	66		1.2
1,4-Dichlorobenzene	106-46-7	11		0.20	66		1.2
1,2-Dichlorobenzene	95-50-1	11		0.20	66		1.2
1,2,4-Trichlorobenzene	120-82-1	9.7		0.50	72		3.7
Hexachlorobutadiene	87-68-3	10		0.20	110		2.1
Naphthalene	91-20-3	8.0		0.50	42		2.6

TO-14/15
Result Summary

CLIENT SAMPLE NO.

BENALCSD

Lab Name: STL Burlington

SDG Number: NY113435

Case Number:

Sample Matrix: AIR

Lab Sample No.: BENALCS

Date Analyzed: 04/17/2006

Date Received: / /

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Dichlorodifluoromethane	75-71-8	11		0.50	54		2.5
1,2-Dichlorotetrafluoroethane	76-14-2	11		0.20	77		1.4
Chloromethane	74-87-3	9.8		0.50	20		1.0
Vinyl Chloride	75-01-4	9.9		0.20	25		0.51
1,3-Butadiene	106-99-0	9.8		0.50	22		1.1
Bromomethane	74-83-9	10		0.20	39		0.78
Chloroethane	75-00-3	9.3		0.20	25		0.53
Bromoethene	593-60-2	9.3		0.20	41		0.87
Trichlorofluoromethane	75-69-4	11		0.20	62		1.1
Freon TF	76-13-1	9.3		0.20	71		1.5
1,1-Dichloroethene	75-35-4	8.8		0.20	35		0.79
Acetone	67-64-1	9.5		5.0	23		12
Isopropyl Alcohol	67-63-0	8.9		5.0	22		12
Carbon Disulfide	75-15-0	8.8		0.50	27		1.6
3-Chloropropene	107-05-1	8.6		0.50	27		1.6
Methylene Chloride	75-09-2	9.0		0.50	31		1.7
tert-Butyl Alcohol	75-65-0	9.0		5.0	27		15
Methyl tert-Butyl Ether	1634-04-4	9.3		0.50	34		1.8
trans-1,2-Dichloroethene	156-60-5	8.6		0.20	34		0.79
n-Hexane	110-54-3	8.7		0.50	31		1.8
1,1-Dichloroethane	75-34-3	8.8		0.20	36		0.81
1,2-Dichloroethene (total)	540-59-0	18		0.20	71		0.79
Methyl Ethyl Ketone	78-93-3	8.8		0.50	26		1.5
cis-1,2-Dichloroethene	156-59-2	9.2		0.20	36		0.79
Tetrahydrofuran	109-99-9	8.7		5.0	26		15
Chloroform	67-66-3	9.7		0.20	47		0.98
1,1,1-Trichloroethane	71-55-6	9.7		0.20	53		1.1
Cyclohexane	110-82-7	8.9		0.20	31		0.69
Carbon Tetrachloride	56-23-5	10		0.20	63		1.3
2,2,4-Trimethylpentane	540-84-1	8.2		0.20	38		0.93
Benzene	71-43-2	8.1		0.20	26		0.64
1,2-Dichloroethane	107-06-2	9.2		0.20	37		0.81
n-Heptane	142-82-5	8.0		0.20	33		0.82

TO-14/15
Result Summary

CLIENT SAMPLE NO.

BENALCSD

Lab Name: STL Burlington

SDG Number: NY113435

Case Number:

Sample Matrix: AIR

Lab Sample No.: BENALCS

Date Analyzed: 04/17/2006

Date Received: / /

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Trichloroethene	79-01-6	9.9		0.20	53		1.1
Methyl Methacrylate	80-62-6	9.2		0.50	38		2.0
1,2-Dichloropropane	78-87-5	8.7		0.20	40		0.92
1,4-Dioxane	123-91-1	9.0		5.0	32		18
Bromodichloromethane	75-27-4	9.8		0.20	66		1.3
cis-1,3-Dichloropropene	10061-01-5	9.6		0.20	44		0.91
Methyl Isobutyl Ketone	108-10-1	9.9		0.50	41		2.0
Toluene	108-88-3	9.3		0.20	35		0.75
trans-1,3-Dichloropropene	10061-02-6	10		0.20	45		0.91
1,1,2-Trichloroethane	79-00-5	9.8		0.20	53		1.1
Tetrachloroethene	127-18-4	11		0.20	75		1.4
Methyl Butyl Ketone	591-78-6	9.6		0.50	39		2.0
Dibromochloromethane	124-48-1	11		0.20	94		1.7
1,2-Dibromoethane	106-93-4	10		0.20	77		1.5
Chlorobenzene	108-90-7	9.1		0.20	42		0.92
Ethylbenzene	100-41-4	9.2		0.20	40		0.87
Xylene (m,p)	1330-20-7	19		0.50	83		2.2
Xylene (o)	95-47-6	9.7		0.20	42		0.87
Xylene (total)	1330-20-7	29		0.20	130		0.87
Styrene	100-42-5	10		0.20	43		0.85
Bromoform	75-25-2	12		0.20	120		2.1
1,1,2,2-Tetrachloroethane	79-34-5	9.2		0.20	63		1.4
4-Ethyltoluene	622-96-8	9.9		0.20	49		0.98
1,3,5-Trimethylbenzene	108-67-8	9.5		0.20	47		0.98
2-Chlorotoluene	95-49-8	9.6		0.20	50		1.0
1,2,4-Trimethylbenzene	95-63-6	9.7		0.20	48		0.98
1,3-Dichlorobenzene	541-73-1	11		0.20	66		1.2
1,4-Dichlorobenzene	106-46-7	10		0.20	60		1.2
1,2-Dichlorobenzene	95-50-1	10		0.20	60		1.2
1,2,4-Trichlorobenzene	120-82-1	8.2		0.50	61		3.7
Hexachlorobutadiene	87-68-3	8.8		0.20	94		2.1
Naphthalene	91-20-3	6.7		0.50	35		2.6

TO-14/15
Result Summary

CLIENT SAMPLE NO.

MBLK041706BA

Lab Name: STL Burlington

SDG Number: NY113435

Case Number:

Sample Matrix: AIR

Lab Sample No.: MBLK0417

Date Analyzed: 04/17/2006

Date Received: / /

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Dichlorodifluoromethane	75-71-8	0.50	U	0.50	2.5	U	2.5
1,2-Dichlorotetrafluoroethane	76-14-2	0.20	U	0.20	1.4	U	1.4
Chloromethane	74-87-3	0.50	U	0.50	1.0	U	1.0
Vinyl Chloride	75-01-4	0.20	U	0.20	0.51	U	0.51
1,3-Butadiene	106-99-0	0.50	U	0.50	1.1	U	1.1
Bromomethane	74-83-9	0.20	U	0.20	0.78	U	0.78
Chloroethane	75-00-3	0.20	U	0.20	0.53	U	0.53
Bromoethene	593-60-2	0.20	U	0.20	0.87	U	0.87
Trichlorofluoromethane	75-69-4	0.20	U	0.20	1.1	U	1.1
Freon TF	76-13-1	0.20	U	0.20	1.5	U	1.5
1,1-Dichloroethene	75-35-4	0.20	U	0.20	0.79	U	0.79
Acetone	67-64-1	5.0	U	5.0	12	U	12
Isopropyl Alcohol	67-63-0	5.0	U	5.0	12	U	12
Carbon Disulfide	75-15-0	0.50	U	0.50	1.6	U	1.6
3-Chloropropene	107-05-1	0.50	U	0.50	1.6	U	1.6
Methylene Chloride	75-09-2	0.50	U	0.50	1.7	U	1.7
tert-Butyl Alcohol	75-65-0	5.0	U	5.0	15	U	15
Methyl tert-Butyl Ether	1634-04-4	0.50	U	0.50	1.8	U	1.8
trans-1,2-Dichloroethene	156-60-5	0.20	U	0.20	0.79	U	0.79
n-Hexane	110-54-3	0.50	U	0.50	1.8	U	1.8
1,1-Dichloroethane	75-34-3	0.20	U	0.20	0.81	U	0.81
1,2-Dichloroethene (total)	540-59-0	0.20	U	0.20	0.79	U	0.79
Methyl Ethyl Ketone	78-93-3	0.50	U	0.50	1.5	U	1.5
cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	0.79	U	0.79
Tetrahydrofuran	109-99-9	5.0	U	5.0	15	U	15
Chloroform	67-66-3	0.20	U	0.20	0.98	U	0.98
1,1,1-Trichloroethane	71-55-6	0.20	U	0.20	1.1	U	1.1
Cyclohexane	110-82-7	0.20	U	0.20	0.69	U	0.69
Carbon Tetrachloride	56-23-5	0.20	U	0.20	1.3	U	1.3
2,2,4-Trimethylpentane	540-84-1	0.20	U	0.20	0.93	U	0.93
Benzene	71-43-2	0.20	U	0.20	0.64	U	0.64
1,2-Dichloroethane	107-06-2	0.20	U	0.20	0.81	U	0.81
n-Heptane	142-82-5	0.20	U	0.20	0.82	U	0.82

TO-14/15
Result Summary

CLIENT SAMPLE NO.

MBLK041706BA

Lab Name: STL Burlington

SDG Number: NY113435

Case Number:

Sample Matrix: AIR

Lab Sample No.: MBLK0417

Date Analyzed: 04/17/2006

Date Received: / /

Target Compound	CAS Number	Results in ppbv	Q	RL in ppbv	Results in ug/m3	Q	RL in ug/m3
Trichloroethene	79-01-6	0.20	U	0.20	1.1	U	1.1
Methyl Methacrylate	80-62-6	0.50	U	0.50	2.0	U	2.0
1,2-Dichloropropane	78-87-5	0.20	U	0.20	0.92	U	0.92
1,4-Dioxane	123-91-1	5.0	U	5.0	18	U	18
Bromodichloromethane	75-27-4	0.20	U	0.20	1.3	U	1.3
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	0.91	U	0.91
Methyl Isobutyl Ketone	108-10-1	0.50	U	0.50	2.0	U	2.0
Toluene	108-88-3	0.20	U	0.20	0.75	U	0.75
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	0.91	U	0.91
1,1,2-Trichloroethane	79-00-5	0.20	U	0.20	1.1	U	1.1
Tetrachloroethene	127-18-4	0.20	U	0.20	1.4	U	1.4
Methyl Butyl Ketone	591-78-6	0.50	U	0.50	2.0	U	2.0
Dibromochloromethane	124-48-1	0.20	U	0.20	1.7	U	1.7
1,2-Dibromoethane	106-93-4	0.20	U	0.20	1.5	U	1.5
Chlorobenzene	108-90-7	0.20	U	0.20	0.92	U	0.92
Ethylbenzene	100-41-4	0.20	U	0.20	0.87	U	0.87
Xylene (m,p)	1330-20-7	0.50	U	0.50	2.2	U	2.2
Xylene (o)	95-47-6	0.20	U	0.20	0.87	U	0.87
Xylene (total)	1330-20-7	0.20	U	0.20	0.87	U	0.87
Styrene	100-42-5	0.20	U	0.20	0.85	U	0.85
Bromoform	75-25-2	0.20	U	0.20	2.1	U	2.1
1,1,2,2-Tetrachloroethane	79-34-5	0.20	U	0.20	1.4	U	1.4
4-Ethyltoluene	622-96-8	0.20	U	0.20	0.98	U	0.98
1,3,5-Trimethylbenzene	108-67-8	0.20	U	0.20	0.98	U	0.98
2-Chlorotoluene	95-49-8	0.20	U	0.20	1.0	U	1.0
1,2,4-Trimethylbenzene	95-63-6	0.20	U	0.20	0.98	U	0.98
1,3-Dichlorobenzene	541-73-1	0.20	U	0.20	1.2	U	1.2
1,4-Dichlorobenzene	106-46-7	0.20	U	0.20	1.2	U	1.2
1,2-Dichlorobenzene	95-50-1	0.20	U	0.20	1.2	U	1.2
1,2,4-Trichlorobenzene	120-82-1	0.50	U	0.50	3.7	U	3.7
Hexachlorobutadiene	87-68-3	0.20	U	0.20	2.1	U	2.1
Naphthalene	91-20-3	0.50	U	0.50	2.6	U	2.6

SEVERN TRENT **STL®**
SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: HDR | LMS
Address: 7 Coates Drive, Suite 2
Goshen NY 10924
Contact: Terry Schneider
Phone: 845 ~~58~~ 294 2789
Fax: 845 294 5893
Contract/ Quote:

Invoice to:
Company: Same
Address:
Contact:
Phone:
Fax:

Sampler's Name: Melissa LaMacchia
Sampler's Signature:

Proj. No.: 446-325
Project Name: Harrison Spill Site
No/Type of Containers²: 1 | Summa

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	TO-15	Lab/Sample ID (Lab Use Only)
Soil Gas	3/28/06	✱	X		SV-1				O	✓	

ANALYSIS REQUESTED

Lab Use Only
Due Date:

Temp. of coolers when received (C°):
1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Melissa LaMacchia	3/28/06	1320		3/29/06	0915
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature	Date	Time

Remarks ✱

	Time	Pressure
start	0956	+30" Hg
stop	1754	6" Hg

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/G - Plastic or other Summa Canister

STL cannot accept verbal changes.
Please Fax written changes to
(802) 655-1248

STL8234-200 (12/02)

SEVERN TRENT STL®
SEVERN TRENT LABORATORIES, INC.

STL Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446 Tel 802 655 1203

CHAIN OF CUSTODY RECORD

Report to:
Company: HDR/LMS
Address: 7 Coates Drive, Suite 2
Goshen NY 10924
Contact: Terry Schneider
Phone: 845 294 2789
Fax: 845 294 5893
Contract/ Quote:

Invoice to:
Company:
Address:
Contact:
Phone:
Fax:

Sampler's Name: Melissa LaMacchia
Sampler's Signature: MSLaMacchia

Proj. No.: 446-325
Project Name: Harrison Spill Site
No/Type of Containers²: 1 Summa

ANALYSIS REQUESTED: TO-15

Lab Use Only
Due Date:
Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5
Custody Seal N / Y
Intact N / Y
Screened For Radioactivity ☐

Matrix¹	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	TO-15	Lab/Sample ID (Lab Use Only)
Soil Gas	3/28/10	✱	X		SV-2				O	✓	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
MSLaMacchia	3/28/10	1820		3-29-06	0915
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks ✱

	Time	Pressure
start	0939	26" Hg
stop	1611	7" Hg

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.

¹Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
²Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other Summa Canister

STL cannot accept verbal changes.
Please Fax written changes to
(802) 655-1248

STL8234-200 (12/02)

ATTACHMENT F

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A, 11th Floor
625 Broadway, Albany, New York 12233-7015
Phone: (518) 402-9620 • **FAX:** (518) 402-9020
Website: www.dec.state.ny.us

Denise M. Sheehan
Commissioner

June 27, 2006

Mr. Mauricio Roma
NYSDOT, Environmental Analysis Bureau, 4-1
50 Wolf Road
Albany, NY 12232

Re: Harrison Subresidency, 360035
Sub-slab soil vapor results

Dear Mr. Roma:

The Department, in conjunction with the NYSDOH, has reviewed the results of the sub-slab soil vapor analysis conducted at the Harrison Subresidency. The building at this site is currently used for large equipment storage, office space and rest rooms. The sub-slab soil vapor investigation was conducted at the on-site building to determine if there was a potential for soil vapor intrusion. A copy of the results is attached. Due to the low levels of site-related volatile organic compounds (VOCs) detected in the sub-slab soil vapor of the on-site building, the potential for exposure to site related contaminants via the vapor intrusion pathway is unlikely. Non-site related VOCs were also detected in the sub-slab soil vapor at levels that do not represent an exposure concern given current use of the site. However, should the use of the on-site building change, additional soil vapor intrusion evaluation will be necessary. Based on this, no further investigation is needed at this time.

Sincerely,

Daniel J. Eaton

Daniel J. Eaton
Engineering Geologist

attachment

cc: I. Ushe, NYSDOH
G. Teal

PHOTOGRAPHS

Photograph 1

Core Location (SV-1)

Photograph 2

Core Location (SV-2)

Photograph 3

Temporary Seal (SV-1)

Photograph 4

Temporary Seal (SV-2)

Photograph 5

Sample Collection (SV-1)

Photograph 6

Sample Collection (SV-2)