

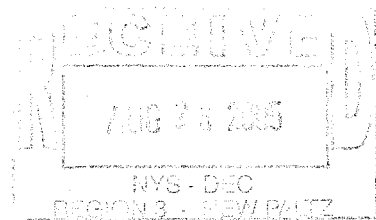


Geology

Hydrology

Remediation

Water Supply



August 25, 2005

Mr. Ramanand Pergadia  
NYSDEC Region 3  
21 South Putt Corners Road  
New Paltz, New York 12561-1696

Re: Sub-Slab Depressurization System Report  
Revonak Dry Cleaners Site  
NYSDEC Site No. 356021

Dear Mr. Pergadia:

Enclosed is the Sub-Slab Venting System Installation Report prepared by Alpine Environmental Services, Inc. (AES) for the Revonak Dry Cleaner site (NYSDEC Site No. 356021) in New Paltz, New York. The report documents the conditions encountered beneath the foundation slab, the "as-built" design of the system, and post-installation testing and balancing of the system. The report includes the data collected to confirm the pressure field extension beneath the foundation slab.

Attached to this letter is the laboratory report for the sub-slab soil vapor samples collected from beneath the dry cleaners as requested by NYSDEC and NYSDOH. Sample "VP-1-Pre" was collected before the startup of the SSD system at the dry cleaners and sample "VP-1-Post" was collected approximately 2 hours and 20 minutes after the SSD was started. The results show a dramatic decrease in the concentrations (PCE: 14,000 down to 51) in the first few hours of operation. The lab data and the pressure data in the attached report indicate that the system is working effectively.

Please feel free to contact me with any questions you have regarding this matter.

Sincerely,  
Alpha Geoscience

Thomas M. Johnson  
Hydrogeologist

cc: R. Schick (w/ enclosure)      P. Kempner (w/ enclosure)  
J. Rashak (w/ enclosure)      K. Young (w/o enclosure)  
R. Rusinko (w/ enclosure)      R. Schwartz (w/o enclosure)  
F. Navratil (w/ enclosure)      H. Hordes (w/o enclosure)

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**ATTACHMENT NO. 1**  
**Sub-Slab Vapor Sample Laboratory Results**



## SOIL VAPOR SAMPLING RECORD

Alpha Geoscience  
679 Plank Road  
Clifton Park, New York 12065

PROJECT NAME Revonak Dry Cleaners SAMPLE ID VP-1-Pre  
PROJECT NUMBER 95141 SOIL VAPOR WELL ID VP-1  
SITE LOCATION New Paltz, New York DATE June 30, 2005

### GENERAL

Weather Conditions Sunny, Hot, Humid  
Site Access/Conditions Good  
Physical Condition of Probe NA

### PURGING INFORMATION

Volume of Tubing and Sampling Train 1.2 Cu. In.  
Tubing and Train Volume x 4 4.8 Cu. In.  
Purging Method Hand Pump  
Actual Volume Purged 40 Cu. In. Purging Time Start 11:18 Time Stop 11:19  
Remarks \_\_\_\_\_

### OBSERVATIONS:

Sub Slab depressurization system was off before and during sampling  
The vacuum pump was started at 12:25 after collecting Sample "VP-1-Pre"  
\_\_\_\_\_  
\_\_\_\_\_

### SAMPLING INFORMATION

Field Personnel T.M. Johnson/ S.M. Trader  
Sampling Method Mini-canister  
Sample Date June 30, 2005  
Sample Time Start 11:19 Finish 12:15  
Sample Description Soil Vapor from immediately beneath the dry cleaning facility foundation slab  
Canister ID #248  
Canister Vacuum Pressure Start 30 Finish 0  
Sample Canister Volume 1000 mL  
Analysis VOCs by Method TO-15  
Remarks Samples delivered to Upstate Laboratories, Inc.



# SOIL VAPOR SAMPLING RECORD

Alpha Geoscience  
679 Plank Road  
Clifton Park, New York 12065

PROJECT NAME Revonak Dry Cleaners  
PROJECT NUMBER 95141  
SITE LOCATION New Paltz, New York

SAMPLE ID VP-1-Post  
SOIL VAPOR WELL ID VP-1  
DATE June 30, 2005

## GENERAL

Weather Conditions Sunny, Hot, Humid  
Site Access/Conditions Good  
Physical Condition of Probe NA

## PURGING INFORMATION

Volume of Tubing and Sampling Train 1.2 Cu. In.  
Tubing and Train Volume x 4 4.8 Cu. In.  
Purging Method Hand Pump  
Actual Volume Purged 40 Cu In. Purging Time Start 14:44 Time Stop 14:45  
Remarks \_\_\_\_\_

## OBSERVATIONS:

Sub Slab depressurization system was on for 2 hours, 20 minutes before collecting sample "VP-1-Post"  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## SAMPLING INFORMATION

Field Personnel T.M. Johnson/ S.M. Trader  
Sampling Method Mini-canister  
Sample Date June 30, 2005  
Sample Time Start 14:45 Finish 15:50  
Sample Description Soil Vapor from immediately beneath the dry cleaning facility foundation slab  
Canister ID #233  
Canister Vacuum Pressure Start 30 Finish 0  
Sample Canister Volume 1000 mL  
Analysis VOCs by Method TO-15  
Remarks Samples delivered to Upstate Laboratories, Inc.

# Upstate Laboratories, Inc.

Date: 19-Jul-05

**CLIENT:** NYSDEC-Region 3  
**Project:** Revonak Dry Cleaners

**Lab Order:** U0507049

**Lab ID:** U0507049-001

**Collection Date:** 6/30/2005 12:15:00 PM

**Client Sample ID:** VP-1-Pre

**Matrix:** AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>EPA TO-15 AIR METHOD</b>		<b>SW8260B</b>		Analyst: Sub		
1,1,1-Trichloroethane	2.0	0.15		ppbV	1	7/11/2005
1,1,2,2-Tetrachloroethane	ND	0.15		ppbV	1	7/11/2005
1,1,2-Trichloroethane	ND	0.15		ppbV	1	7/11/2005
1,1-Dichloroethane	ND	0.15		ppbV	1	7/11/2005
1,1-Dichloroethene	ND	0.15		ppbV	1	7/11/2005
1,2,4-Trichlorobenzene	ND	0.15		ppbV	1	7/11/2005
1,2,4-Trimethylbenzene	3.7	0.15		ppbV	1	7/11/2005
1,2-Dibromoethane	ND	0.15		ppbV	1	7/11/2005
1,2-Dichlorobenzene	ND	0.15		ppbV	1	7/11/2005
1,2-Dichloroethane	ND	0.15		ppbV	1	7/11/2005
1,2-Dichloropropane	ND	0.15		ppbV	1	7/11/2005
1,3,5-Trimethylbenzene	1.7	0.15		ppbV	1	7/11/2005
1,3-Butadiene	ND	0.15		ppbV	1	7/11/2005
1,3-Dichlorobenzene	ND	0.15		ppbV	1	7/11/2005
1,4-Dichlorobenzene	ND	0.15		ppbV	1	7/11/2005
1,4-Dioxane	ND	0.30		ppbV	1	7/11/2005
2,2,4-Trimethylpentane	0.23	0.15		ppbV	1	7/11/2005
2-Butanone	ND	0.15		ppbV	1	7/11/2005
2-Hexanone	ND	0.15		ppbV	1	7/11/2005
2-Propanol	ND	0.15		ppbV	1	7/11/2005
4-Ethyltoluene	1.2	0.15		ppbV	1	7/11/2005
4-Methyl-2-pentanone	6.6	0.15		ppbV	1	7/11/2005
Acetone	20	0.30		ppbV	1	7/11/2005
Allyl Chloride	ND	0.15		ppbV	1	7/11/2005
Benzene	34	0.15		ppbV	1	7/11/2005
Benzyl chloride	ND	0.15		ppbV	1	7/11/2005
Bromodichloromethane	ND	0.15		ppbV	1	7/11/2005
Bromoform	ND	0.15		ppbV	1	7/11/2005
Bromomethane	ND	0.15		ppbV	1	7/11/2005
Carbon disulfide	2.5	0.15		ppbV	1	7/11/2005
Carbon tetrachloride	ND	0.15		ppbV	1	7/11/2005
Chlorobenzene	ND	0.15		ppbV	1	7/11/2005
Chloroethane	2.9	0.15		ppbV	1	7/11/2005
Chloroform	0.55	0.15		ppbV	1	7/11/2005
Chloromethane	ND	0.15		ppbV	1	7/11/2005
cis-1,2-Dichloroethene	780	0.15		ppbV	1	7/11/2005
cis-1,3-Dichloropropene	ND	0.15		ppbV	1	7/11/2005
Cyclohexane	ND	0.15		ppbV	1	7/11/2005

**Approved By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

Page 1 of 4

**Qualifiers:**

- \* Low Level
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

**Upstate Laboratories, Inc.**

Date: 19-Jul-05

**CLIENT:** NYSDEC-Region 3  
**Project:** Revonak Dry Cleaners

**Lab Order:** U0507049

EPA TO-15 AIR METHOD			SW8260B			Analyst: Sub
Cyclohexylamine	ND	5.0	ppbV	1	7/11/2005	
Dibromochloromethane	ND	0.15	ppbV	1	7/11/2005	
Ethyl acetate	ND	0.25	ppbV	1	7/11/2005	
Ethylbenzene	5.4	0.15	ppbV	1	7/11/2005	
Freon 11	2.8	0.15	ppbV	1	7/11/2005	
Freon 114	ND	0.15	ppbV	1	7/11/2005	
Freon 12	0.87	0.15	ppbV	1	7/11/2005	
Freon-113	ND	0.15	ppbV	1	7/11/2005	
Heptane	ND	0.75	ppbV	1	7/11/2005	
Hexachlorobutadiene	ND	0.15	ppbV	1	7/11/2005	
Hexane	1.3	0.15	ppbV	1	7/11/2005	
m,p-Xylene	19	0.15	ppbV	1	7/11/2005	
Methyl tert-butyl ether	ND	0.15	ppbV	1	7/11/2005	
Methylene chloride	ND	0.15	ppbV	1	7/11/2005	
Morpholine	ND	5.0	ppbV	1	7/11/2005	
o-Xylene	5.6	0.15	ppbV	1	7/11/2005	
Propylene	ND	0.15	ppbV	1	7/11/2005	
Styrene	3.4	0.15	ppbV	1	7/11/2005	
Tetrachloroethene	14000	0.15	ppbV	1	7/11/2005	
Tetrahydrofuran	ND	0.15	ppbV	1	7/11/2005	
Toluene	10	0.75	ppbV	1	7/11/2005	
trans-1,2-Dichloroethene	4.0	0.15	ppbV	1	7/11/2005	
trans-1,3-Dichloropropene	ND	0.15	ppbV	1	7/11/2005	
Trichloroethene	71	0.15	ppbV	1	7/11/2005	
Vinyl acetate	ND	0.15	ppbV	1	7/11/2005	
Vinyl Bromide	ND	0.15	ppbV	1	7/11/2005	
Vinyl chloride	0.42	0.15	ppbV	1	7/11/2005	

**Approved By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Qualifiers:**

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

- \*\* Value exceeds Maximum Contaminant Value
- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

**Upstate Laboratories, Inc.**

Date: 19-Jul-05

**CLIENT:** NYSDEC-Region 3  
**Project:** Revonak Dry Cleaners

**Lab Order:** U0507049

**Lab ID:** U0507049-002

**Collection Date:** 6/30/2005 3:50:00 PM

**Client Sample ID:** VP-1-Post

**Matrix:** AIR

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>EPA TO-15 AIR METHOD</b>		<b>SW8260B</b>		Analyst: Sub		
1,1,1-Trichloroethane	ND	0.15		ppbV	1	7/11/2005
1,1,2,2-Tetrachloroethane	ND	0.15		ppbV	1	7/11/2005
1,1,2-Trichloroethane	ND	0.15		ppbV	1	7/11/2005
1,1-Dichloroethane	ND	0.15		ppbV	1	7/11/2005
1,1-Dichloroethene	ND	0.15		ppbV	1	7/11/2005
1,2,4-Trichlorobenzene	ND	0.15		ppbV	1	7/11/2005
1,2,4-Trimethylbenzene	1.8	0.15		ppbV	1	7/11/2005
1,2-Dibromoethane	ND	0.15		ppbV	1	7/11/2005
1,2-Dichlorobenzene	ND	0.15		ppbV	1	7/11/2005
1,2-Dichloroethane	ND	0.15		ppbV	1	7/11/2005
1,2-Dichloropropane	ND	0.15		ppbV	1	7/11/2005
1,3,5-Trimethylbenzene	1.2	0.15		ppbV	1	7/11/2005
1,3-Butadiene	ND	0.15		ppbV	1	7/11/2005
1,3-Dichlorobenzene	ND	0.15		ppbV	1	7/11/2005
1,4-Dichlorobenzene	ND	0.15		ppbV	1	7/11/2005
1,4-Dioxane	ND	0.30		ppbV	1	7/11/2005
2,2,4-Trimethylpentane	ND	0.15		ppbV	1	7/11/2005
2-Butanone	ND	0.15		ppbV	1	7/11/2005
2-Hexanone	ND	0.15		ppbV	1	7/11/2005
2-Propanol	ND	0.15		ppbV	1	7/11/2005
4-Ethyltoluene	0.49	0.15		ppbV	1	7/11/2005
4-Methyl-2-pentanone	0.88	0.15		ppbV	1	7/11/2005
Acetone	9.0	0.30		ppbV	1	7/11/2005
Ally Chloride	ND	0.15		ppbV	1	7/11/2005
Benzene	1.7	0.15		ppbV	1	7/11/2005
Benzyl chloride	ND	0.15		ppbV	1	7/11/2005
Bromodichloromethane	ND	0.15		ppbV	1	7/11/2005
Bromoform	ND	0.15		ppbV	1	7/11/2005
Bromomethane	ND	0.15		ppbV	1	7/11/2005
Carbon disulfide	ND	0.15		ppbV	1	7/11/2005
Carbon tetrachloride	0.16	0.15		ppbV	1	7/11/2005
Chlorobenzene	ND	0.15		ppbV	1	7/11/2005
Chloroethane	ND	0.15		ppbV	1	7/11/2005
Chloroform	ND	0.15		ppbV	1	7/11/2005
Chloromethane	ND	0.15		ppbV	1	7/11/2005
cis-1,2-Dichloroethene	ND	0.15		ppbV	1	7/11/2005
cis-1,3-Dichloropropene	ND	0.15		ppbV	1	7/11/2005
Cyclohexane	ND	0.15		ppbV	1	7/11/2005

**Approved By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Qualifiers:**

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits

**Upstate Laboratories, Inc.**

Date: 19-Jul-05

**CLIENT:** NYSDEC-Region 3  
**Project:** Revonak Dry Cleaners

**Lab Order:** U0507049

**EPA TO-15 AIR METHOD**

**SW8260B**

Analyst: Sub

Cyclohexylamine	ND	5.0	ppbV	1	7/11/2005
Dibromochloromethane	ND	0.15	ppbV	1	7/11/2005
Ethyl acetate	ND	0.25	ppbV	1	7/11/2005
Ethylbenzene	1.5	0.15	ppbV	1	7/11/2005
Freon 11	4.0	0.15	ppbV	1	7/11/2005
Freon 114	ND	0.15	ppbV	1	7/11/2005
Freon 12	0.78	0.15	ppbV	1	7/11/2005
Freon-113	ND	0.15	ppbV	1	7/11/2005
Heptane	ND	0.75	ppbV	1	7/11/2005
Hexachlorobutadiene	ND	0.15	ppbV	1	7/11/2005
Hexane	0.96	0.15	ppbV	1	7/11/2005
m,p-Xylene	4.0	0.15	ppbV	1	7/11/2005
Methyl tert-butyl ether	ND	0.15	ppbV	1	7/11/2005
Methylene chloride	ND	0.15	ppbV	1	7/11/2005
Morpholine	ND	5.0	ppbV	1	7/11/2005
o-Xylene	2.0	0.15	ppbV	1	7/11/2005
Propylene	ND	0.15	ppbV	1	7/11/2005
Styrene	1.1	0.15	ppbV	1	7/11/2005
Tetrachloroethene	51	0.15	ppbV	1	7/11/2005
Tetrahydrofuran	ND	0.15	ppbV	1	7/11/2005
Toluene	4.0	0.75	ppbV	1	7/11/2005
trans-1,2-Dichloroethene	ND	0.15	ppbV	1	7/11/2005
trans-1,3-Dichloropropene	ND	0.15	ppbV	1	7/11/2005
Trichloroethene	6.6	0.15	ppbV	1	7/11/2005
Vinyl acetate	ND	0.15	ppbV	1	7/11/2005
Vinyl Bromide	ND	0.15	ppbV	1	7/11/2005
Vinyl chloride	ND	0.15	ppbV	1	7/11/2005

**Approved By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

Page 4 of 4

**Qualifiers:**

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- S Spike Recovery outside accepted recovery limits