

MAY 02 1996

Environmental Services of America, Inc.



ENSA Environmental, Inc.

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April 26, 1996

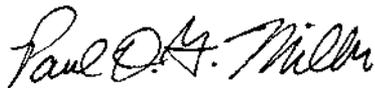
Mr. Jason Feingold
Project Engineer, Sites Management Section
Vermont Department of Environmental Conservation
Hazardous Materials Management Division
103 South Main Street/West Building
Waterbury, Vermont 05671-0404

RE: Ahlers Residence, Mount Holly, Vermont
DEC Site #95-1923

Dear Mr. Feingold:

Enclosed please find the Site Investigation Summary Report for the above-referenced site. If you have any questions or require further information, please feel free to call me at (802) 254-3677.

Sincerely,
ENSA Environmental, Inc.



Paul D. G. Miller
Hydrogeologist

Enclosure

cc: John D. Freeman Esq.
Cliff Ambrose

950912\feingld.let

MAY 0 2 1996

Phase	Type
<input checked="" type="checkbox"/> Initial Site Investigation	<input type="checkbox"/> Work Scope
<input type="checkbox"/> Corrective Action Feasibility Investigation	<input checked="" type="checkbox"/> Technical Report
<input type="checkbox"/> Corrective Action Plan	<input type="checkbox"/> PCF Reimbursement Request
<input type="checkbox"/> Corrective Action Summary Report	<input type="checkbox"/> General Correspondence
<input type="checkbox"/> Operations and Monitoring Report	

Initial Site Investigation Summary Report
Ahlers Residence
Roger Hill Road
Mount Holly, Vermont
DEC Site #95-1923

for

Mr. Douglas Ahlers
Modem Media
228 Saugatuck Road
Westport, CT 06880
Contact: John D. Freeman, Esq.
Phone: (203) 351-4201

prepared by

ENSA Environmental, Inc.
205 Main Street
Brattleboro, VT 05301
(802) 254-3677
Contact: Paul Miller
Reviewed By: David Gagnon

April 4, 1996

EXECUTIVE SUMMARY

In a letter dated February 26, 1996 the Sites Management Section of the Vermont Department of Environmental Conservation approved the workplan for the proposed initial site investigation, for the Ahlers Residence site, developed in response to soil and groundwater contamination identified during the underground storage tank (UST) closure activities carried forth on November 10, 1995. Contaminated soil encountered during the UST removal was backfilled into the empty tank pit.

Four groundwater monitoring wells and a soil boring were installed at the site on March 13, 1996. Contaminated soil encountered during the installation of monitoring wells was stockpiled and polyencapsulated on site. Groundwater sampling occurred on March 18, 1996 at each of the four monitoring wells (AR-1 to AR-4). The groundwater samples were analyzed via US EPA Method 8260 for Volatile Organic Compounds (VOCs). Laboratory results revealed the presence of petroleum related compounds at levels exceeding state standards for groundwater in monitoring well AR-4. Contaminant levels in all other monitoring wells were found to be below laboratory detection limits.

The subject property is served by an onsite drinking water well. Two other water wells are located on the site but do not appear to be in use at this time. A small man-made pond is also located to the north and upgradient of the former tank location. Open fields and wooded areas abut the site on all sides. The nearest off-site drinking water well is located at a residence approximately 1/2 mile to the south of the site.

ENSA recommends additional ground water sampling in three months (June 1996). This sampling should include samples collected from the four site monitoring wells, the onsite drinking water well, and the other two onsite water wells. Samples will be analyzed by EPA method 8020 for volatile organic compounds. Further conclusions and recommendations will be included in a summary report following the June sampling.

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1. INTRODUCTION

The following report summarizes the activities performed during the subsurface investigation conducted by ENSA Environmental, Inc. (ENSA) at the Ahlers Residence located on Roger Hill Road in Mount Holly, Vermont (see Appendix A - Site Locus Map). The purpose of this environmental investigation was to determine the degree and extent of soil and groundwater contamination first identified during the removal of a 1,000 gallon gasoline underground storage tank (UST) on November 10, 1995. Relevant site information is presented in Table I.

Table I Site Information

Name	Address	Phone Number	Relationship
Douglas Ahlers	Roger Hill Road, Mount Holly, VT 05758	(203) 341-5247	Site Owner
John D. Freeman, Esq. Cummings & Lockwood	4 Stanford Plaza, POB 120 Stanford, CT 06904	(203) 351-4201	Site Owners Attorney
Joseph S. F. Sewell Staff Attorney, Utica Mutual Insurance Company	P.O. Box 530 Utica, NY 13503-0530	(315) 734-2970	Owners Insurance Company
Cliff Ambrose Ambrose Environmental Management	P.O. Box 5217 Beverly Farms, MA 01915	(508) 927-4100	Project Manager for the Insurance Company
Phillip Carroll	52 Thrall Ave. Rutland, VT 05701		Land abuts site property to the north
Laura Dearborn	1414 Greenwich Street San Francisco, CA 94109		Land abuts site property to the north
Linda Nexon	RR#1 Box 625 Mount Holly, VT 05158		Land abuts site property to the north and east
Kenneth and Mary Hawkins	RR#1 Box 1620 East Wallingford, VT 05702		Land abuts site property to the east
William and Ruth Johnson	P.O. Box 155 East Wallingford, VT 05742		Land abuts site property to the south
Joe and Bettijane Kaschuluk	P.O. Box 246 East Wallingford, VT 05742		Land abuts site property to the south
John and Anne Bourne	RR#1 Box 1668 East Wallingford, VT 05742		Land abuts site property to the south/southwest
P. J. Bushey Landscaping	Rte. 103 East Wallingford, VT 05742		Land abuts site property to the south/southwest
Butler ?	Lives in town of Wallingford		Land abuts site property to the west

2. SITE HISTORY

The site is located at the end of Roger Hill Road and consists of a relatively new house (built in the '70s) and a small barn surrounded by fields and a small pond. The Ahlers Residence consists of approximately 220 acres of land, according to the Mount Holly Tax Assessors Aerial Tax Map of the area (a sketched version taken from the aerial map is included in Appendix B).

2.1 Past and Present Owners

According to the Mount Holly Town Clerk, Susan Covalla, the property was formerly owned by Mr. Jim Kaufmann, who built the house on the site. The site is currently owned by Douglas Ahlers.

2.2 Land Use

According to the Town Clerk, the site was formerly used as farmland. Based on our site observations (the presence of stone walls and old apple trees) this description appears to be accurate. Current site use appears to be limited to residential activities.

3. SITE ACTIVITIES

3.1 Monitoring Well Installation

On March 13, 1996, ENSA and T&K Drilling of Troy, NH completed the installation of four 10' to 13' deep groundwater monitoring wells (AR-1 to AR-4) and a soil boring (SB-5). Well and soil boring locations are shown on the Groundwater Potentiometric Map presented in Appendix C.

Soil samples collected during the advancement of the well borings were screened on-site according to Vermont Department of Environmental Conservation headspace analysis protocol with a Thermo Environmental Instruments Model 580B Organic Vapor Meter (OVM) calibrated to a 250 ppm Isobutylene span gas. Headspace screening results are included on the Soil Boring/Monitoring Well Construction Logs presented in Appendix D. Approximately one quarter cubic yard of contaminated soil was polyencapsulated and stockpiled during the drilling process. The location of the stockpiled soils is shown on the Groundwater Potentiometric Map presented in Appendix C.

Soils encountered during the drilling were generally tight and poorly sorted and consisted of a silt to medium gravel. This soil appears to be a glacially derived till which is typical for this area.

3.2 Groundwater Sampling & Analysis

On March 18, 1996, groundwater gauging and sampling of the monitoring wells was performed at the subject property. A groundwater potentiometric map was constructed and is presented in Appendix C. Standard sampling procedure was followed and includes:

- Gauging of groundwater levels for each monitoring well using a Solinst water level indicator accurate to 0.01 feet;
- Purging of three well volumes of groundwater from each monitoring well by hand bailing with disposable plastic bailers;
- Collection of groundwater from each monitoring well for laboratory analysis via US EPA Method 8260;

All samples, including a trip blank and duplicate of AR-4, were stored at 4°C and submitted to Alpha Analytical Laboratories located in Westborough, Massachusetts.

4. RESULTS

4.1 Soil Contamination

During monitoring well installation, split spoon soil samples were collected. Soils were screened for the presence of volatile organic compounds (VOCs) via headspace screening protocol using an OVM. Overall head space soil screenings ranged from 0.2 ppm to 408 ppm in well AR-4 (monitoring well placed at the downgradient extent of the former tank pit) and from 0.0 ppm to 5.7 in all the other soil borings. Complete records of OVM soil screening readings for each well are included in the Soil Boring/Monitoring Well Construction Logs in Appendix D.

4.2 Groundwater Contamination

Depth to groundwater ranged from 5.27 (AR-1) to 2.10 (AR-3) feet below the PVC well head (approximate to ground surface). According to the variations in groundwater elevation, a westerly trend in groundwater flow exists at the site. Based on area topography and surface drainage patterns, groundwater flow direction was anticipated to be in a westerly direction during monitoring well installation. Groundwater elevations were measured on March 18, 1996 and are provided in Table II. The groundwater gradient in the immediate area of the former UST was found to be 9.0%. Due to the tight nature of the soils at the site, groundwater conductivity is expected to be very low.

Table II Monitoring Well Groundwater Elevations

Date	Monitoring Wells	AR-1	AR-2	AR-3	AR-4
	PVC Elevation	95.56	94.96	99.32	99.65
3/18/96	Depth to Groundwater	5.27	4.20	2.10	3.44
	Groundwater Elevation	90.29	90.76	97.22	96.21

The groundwater elevations (in feet) are measured from an arbitrary datum elevation selected by ENSA

Analytical results from the March 18, 1996 groundwater sampling event reveal levels of petroleum related compounds exceeding state regulatory standards for groundwater in monitoring well AR-4. Contaminant levels in all other monitoring wells were found to be below laboratory detection limits. Since only one monitoring well (AR-4) was impacted by VOC contamination, no isoconcentration map was constructed for the site. A summary of the analytical results are presented in Table III. Full laboratory data sheets and the Chain-of-Custody record for March 18, 1996, are presented in Appendix E.

Table III Analytical Groundwater Sampling Results

Date	Compound	Monitoring Well				
		AR-1	AR-2	AR-3	AR-4	PGQES*
3/18/96	Benzene	ND	ND	ND	1600 (1700)	5
	Toluene	ND	ND	ND	5500 (5600)	2420
	Ethylbenzene	ND	ND	ND	720 (740)	680
	Xylenes	ND	ND	ND	4300 (4400)	400
	Methyl tert butyl ether (MTBE)	ND	ND	ND	1600 (1800)	40 VHAL
	Naphthalene	ND	ND	ND	240 (190)	-
	n-Propylbenzene	ND	ND	ND	120 (130)	-
	1,3,5-Trimethyl benzene	ND	ND	ND	550 (530)	-
	1,2,4-Trimethylbenzene	ND	ND	ND	1400 (1400)	-
Total VOCs	ND	ND	ND	16030 (16490)	-	

All compound concentrations measured in micrograms per liter (ppb)
 Compound concentrations in bold type indicate a concentration equal to or greater than the BTEX Primary Groundwater Quality Enforcement Standards (PGQES) or MTBE VT Health Advisory Levels (VHAL)
 AR-02 = the duplicate sample of AR-4 is presented in parenthesis

5. SENSITIVE RECEPTOR EVALUATION

The nearest sensitive human receptors would be the site inhabitants. The house is located hydraulically upgradient from the former tank location. The drinking water well currently in use is also located upgradient of the former tank location. Two other water wells on the property (potentially abandoned) are also located upgradient of the former UST location. No other human receptors are located within 1000 feet of the subject property, the nearest residence and drinking water well is located approximately ½ mile to the south of the site.

The nearest sensitive environmental receptors appear to be groundwater and soils in the immediate vicinity of the former UST location and a man-made pond located approximately 190 feet upgradient of the former UST area. No other sensitive environmental receptors were noted within a 1,000 foot radius of the site.

6. CONCLUSIONS

- Four monitoring wells were installed at the site on March 13, 1996, to define the degree and extent of subsurface contamination.
- Calculation of monitoring well groundwater elevations from the survey data recorded on March 18, 1996, found groundwater to be flowing in a westerly direction, as anticipated.
- Groundwater sampling revealed the presence of VOC contamination in only one monitoring well, AR-4. This well was found to contain Benzene, Toluene, Ethylbenzene, Xylenes, and MTBE at levels above state regulatory guidelines.
- The extent of subsurface contamination appears to be limited due to the presence of tight soils (till) and corresponding low groundwater conductivity.

7. RECOMMENDATIONS

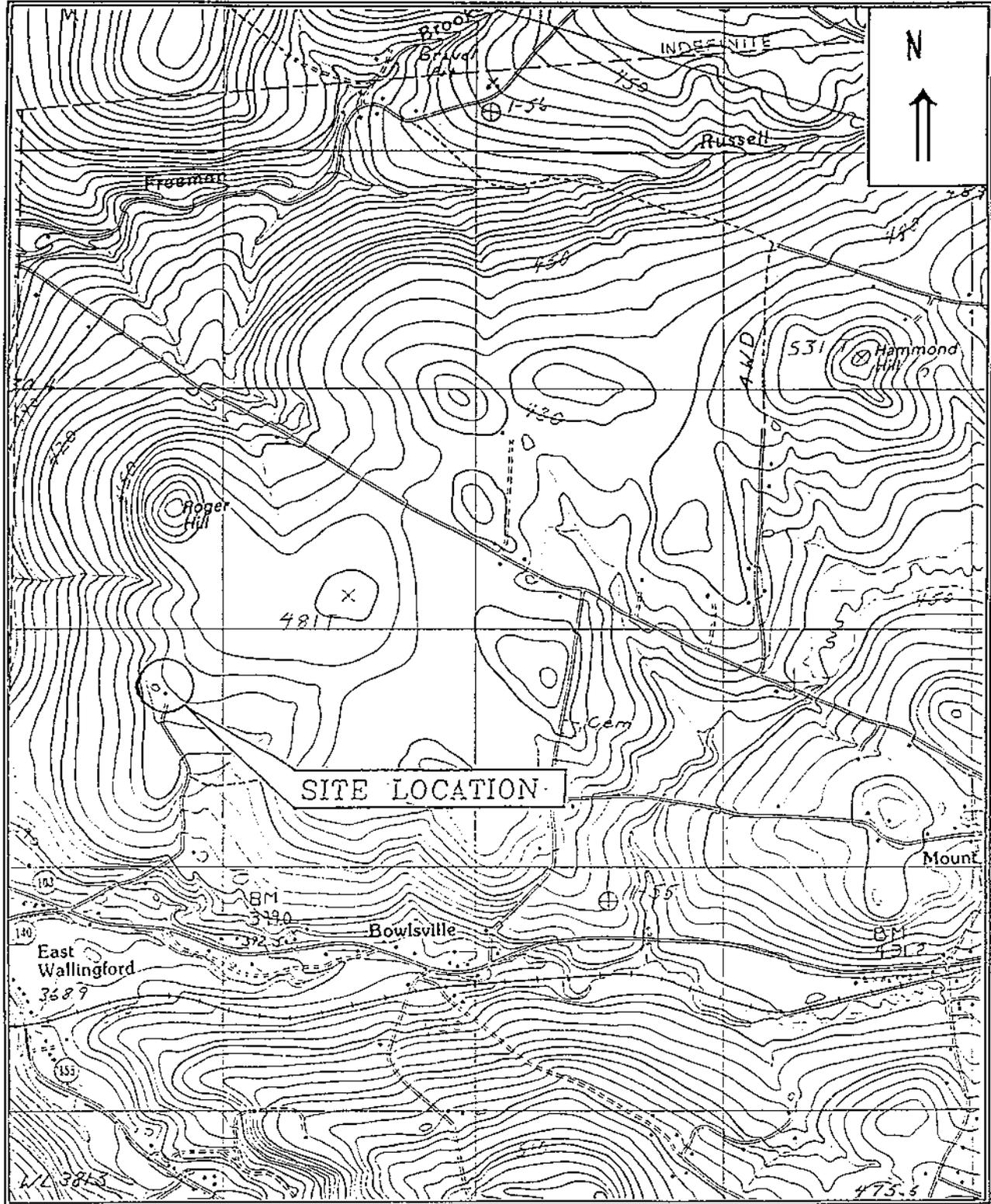
- Due to the apparent limited extent of VOC contaminated soils at the site, it is recommended that the soils be excavated and polyencapsulated at the site. It is estimated that there will be approximately 30 cubic yards of contaminated soil. This will effectively remove the remaining contaminant source and therefore allow a more quick, natural remediation of the shallow groundwater at the site. A field technician with and OVM will determine the exact extent of the contamination during the soil excavation. All soils displaying any VOC contamination per the OVM will be excavated. The polyencapsulated soil should then be sampled for waste classification. Upon approval

from a waste disposal facility, the soil will be loaded and transported to the facility by a licensed waste hauler.

- It is also recommended that all site wells, including the monitoring wells, drinking water well, and other two site water wells, should be sampled two weeks after excavation and analyzed by EPA Method 8020 for VOCs. Results from the additional sampling, along with a groundwater potentiometric and isoconcentration map (if needed) and further recommendations, will be included in a summary report and will be submitted to our client and the SMS.

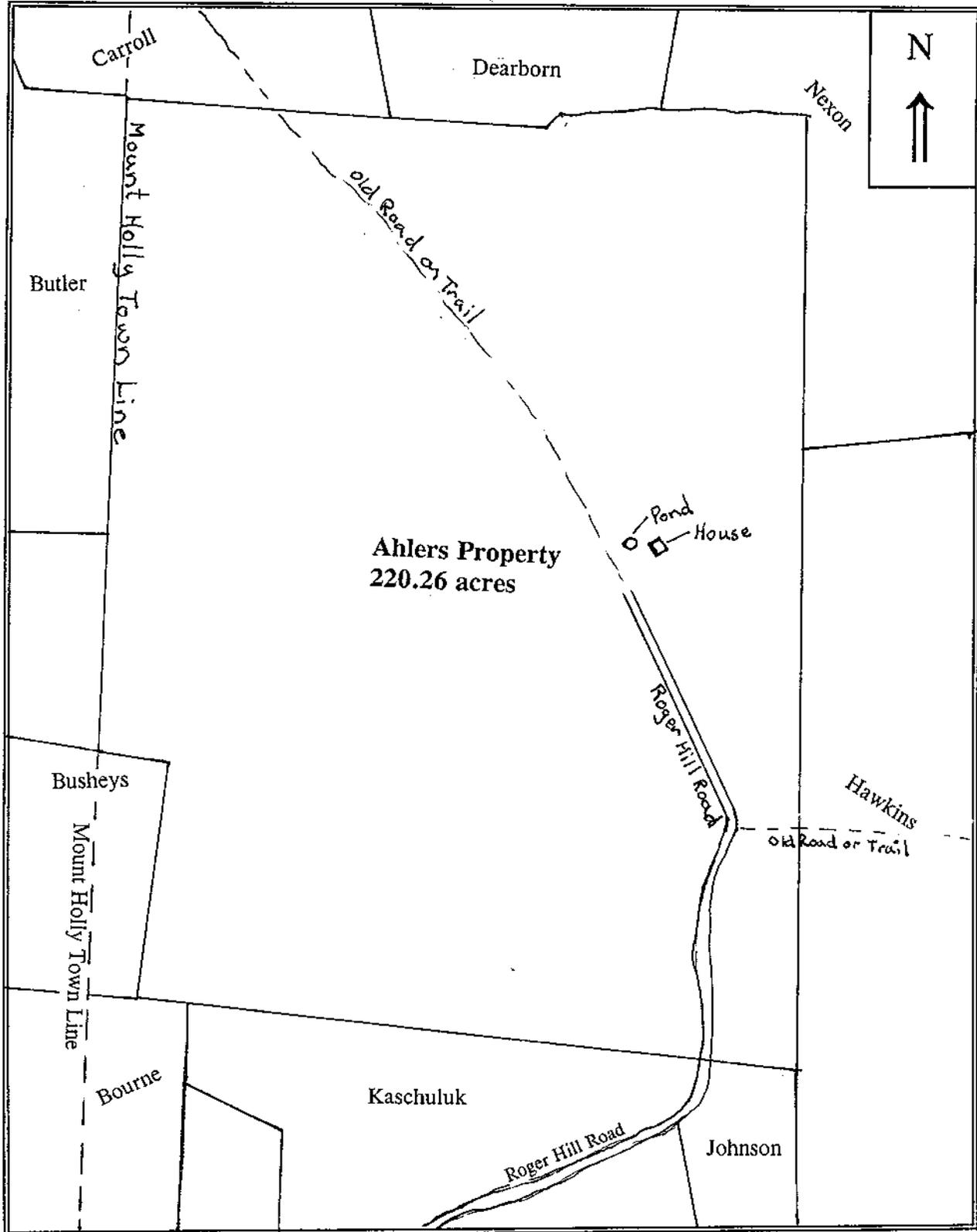
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Appendix A
Site Locus Map



Site Locus	USGS Topographic Map Mount Holly, VT Revised: 1986 Scale 1: 24000	Douglas Ahlers Residence Roger Hill Road Mount Holly, VT
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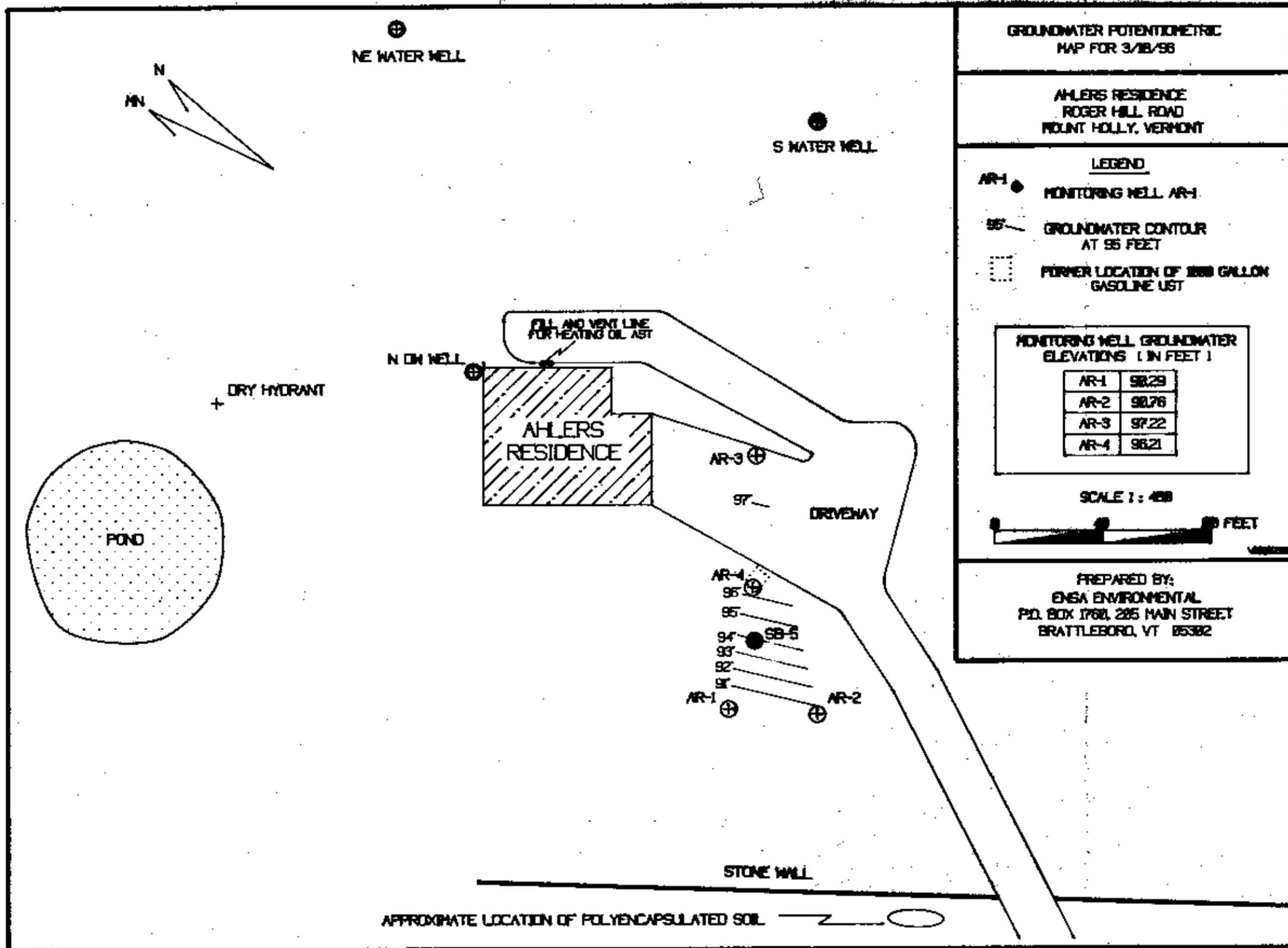
Appendix B
Site Area Map



<p>Site Area Map taken from Aerial Tax Map</p>	<p>Mount Holly Vermont Not to scale</p>	<p>Ahlers Property Roger Hill Road Mount Holly, Vermont</p>
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Appendix C

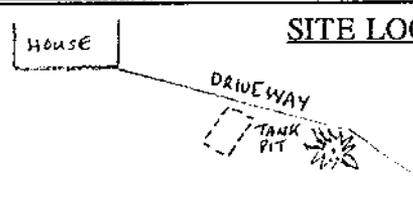
Groundwater Potentiometric Map

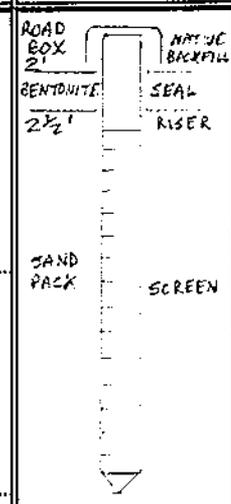


Appendix D

Soil Boring/Monitoring Well Construction Logs

ENSA ENVIRONMENTAL, INC.
SOIL BORING/MONITORING WELL LOG

Project #: <u>950912</u> Date: <u>3/13/96</u> Project Name: <u>Ahler Residence</u> Location: <u>Mount Holly, VT</u> Driller: <u>T & K Drilling</u> TEC Personnel: <u>PSR</u> Boring/Well #: <u>AR-2</u> Sheet <u>1</u> of <u>1</u>	<div align="center">  <p>SITE LOCUS</p> </div> <p align="center">AR-2 ⊕</p>
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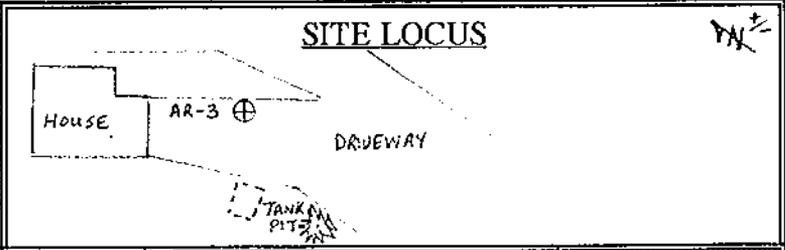
Depth	Blow Counts				Rec. (in.)	OVM (ppm)	Soil Characterization	As Built Diagram
	0-6	6-12	12-18	18-24				
0-2					grab	0.0	Dark brown loamy silt with trace medium sand	
2-4	1	1	5	14	18	1.3	Light brown silt with little medium sand, trace gravel	
4-6	11	14	18	17	15	1.1	Yellowish-orange silt and medium to fine sand trace gravel containing thin irregular oxidized laminae	
6-8	19	12	16	18	20	0.9	Light brown silt and medium sand trace gravel, moist top 1/3 of spoon	
8-10	18	16	17	22	20	0.7	Yellowish orange silt and medium to fine sand trace gravel, bottom 4" moist	

Drilling Method: <u>HSA</u> Total Well Depth: <u>10</u> Groundwater Depth: <u> </u> PVC Elevation: <u> </u>	Screen Diameter: <u>2"</u> Length: <u>7'</u> Riser Diameter: <u>2"</u> Length: <u>3'</u> Slot Size: <u>.10</u> Ground Elevation: <u> </u>
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- Notes:
1. Split spoon soil samples are screened for organic vapors via headspace method using a Thermo Environmental Instruments Inc. Organic Vapor Meter Model 5808.
 2. ND indicates nondetectable contaminant concentrations as read by the OVM.
 3. Samples are collected using a Split Spoon Sampler unless otherwise indicated.
 4. Split Spoon Sampler has a 2" diameter and is driven using a 140 lb. hammer falling 30 inches.
 5. HSA = Hollow Stem Auger, AR = Air Rotary

ENSA ENVIRONMENTAL, INC.
SOIL BORING/MONITORING WELL LOG

Project #: 950912 Date: 3/13/96
 Project Name: Ahler Residence
 Location: Mount Holly, VT
 Driller: T & K Drilling
 TEC Personnel: PSR
 Boring/Well #: AR-3 Sheet 1 of 1



Depth	Blow Counts				Rec. (in.)	OVM (ppm)	Soil Characterization	As Built Diagram
	0-6	6-12	12-18	18-24				
0-2					grab	1.6	Light brown silt and medium to fine sand some gravel	
5-7	5	6	8	13	16	0.7	Light brown silt and medium to fine sand some gravel, top 1/3 moist	
10-12	14	21	25	30	20	0.6	Light brown silt and medium to fine sand, some gravel	

Drilling Method: HSA Screen Diameter: 2" Length: 10'
 Total Well Depth: 13 Riser Diameter: 2" Length: 3'
 Groundwater Depth: _____ Slot Size: .10
 PVC Elevation: _____ Ground Elevation: _____

- Notes:
1. Split spoon soil samples are screened for organic vapors via headspace method using a Thermo Environmental Instruments Inc. Organic Vapor Meter Model 580B.
 2. ND indicates nondetectable contaminant concentrations as read by the OVM.
 3. Samples are collected using a Split Spoon Sampler unless otherwise indicated.
 4. Split Spoon Sampler has a 2" diameter and is driven using a 140 lb. hammer falling 30 inches.
 5. HSA = Hollow Stem Auger, AR = Air Rotary

ENSA ENVIRONMENTAL, INC.
SOIL BORING/MONITORING WELL LOG

Project #: <u>950912</u> Date: <u>3/13/96</u> Project Name: <u>Ahler Residence</u> Location: <u>Mount Holly, VT</u> Driller: <u>T & K Drilling</u> TEC Personnel: <u>PSR</u> Boring/Well #: <u>AR-4</u> Sheet <u>1</u> of <u>1</u>	<div style="text-align: center;">SITE LOCUS</div>
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Depth	Blow Counts				Rec (ft)	OVM (ppm)	Soil Characterization	As Built Diagram
	0-6	6-12	12-18	18-24				
0-2					grab	0.7	Light brown silt with some sand little gravel	
2-4	5	4	5	6	6	0.2	Light brown silt some sand little gravel	
6-8	14	8	3	11	4	313	Wet light brown silt some sand little gravel, strong odor	
8-10	3	7	12	14	6	408	Light brown silt some sand with gravel, odor	
10-12	7	15	18	12	18	167	Light brown silt some sand with gravel, odor	

Drilling Method: <u>HSA</u>	Screen Diameter: <u>2"</u> Length: <u>8'</u>
Total Well Depth: <u>10</u>	Riser Diameter: <u>2"</u> Length: <u>2'</u>
Groundwater Depth: <u> </u>	Slot Size: <u>.10</u>
PVC Elevation: <u> </u>	Ground Elevation: <u> </u>

- Notes:
1. Split spoon soil samples are screened for organic vapors via headspace method using a Thermo Environmental Instruments Inc. Organic Vapor Meter Model 580B.
 2. ND indicates nondetectable contaminant concentrations as read by the OVM.
 3. Samples are collected using a Split Spoon Sampler unless otherwise indicated.
 4. Split Spoon Sampler has a 2" diameter and is driven using a 140 lb. hammer falling 30 inches.
 5. HSA = Hollow Stem Auger, AR = Air Rotary

Appendix E

Analytical Laboratory Results

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ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: ENSA Environmental, Inc.

Laboratory Job Number: L9601641

Address: 205 Main Street; 3rd Floor

Invoice Number: 81882

Brattleboro, VT 05301

Date Received: 19-MAR-96

Attn: Paul Miller

Date Reported: 26-MAR-96

Project Number: 950912

Delivery Method: Alpha

Site: Ahler's Residence

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9601641-01	AR-1-31896-912	Mt. Holly, VT
L9601641-02	AR-2-31896-912	Mt. Holly, VT
L9601641-03	AR-3-31896-912	Mt. Holly, VT
L9601641-04	AR-4-31896-912	Mt. Holly, VT
L9601641-05	AR-02-31896-912	Mt. Holly, VT
L9601641-06	AR-01-31896-912	Mt. Holly, VT

Authorized by:



Scott McLean - Laboratory Director

RECEIVED MAR 28 1996

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9601641-01 Date Collected: 18-MAR-96
 AR-1-31896-912 Date Received : 19-MAR-96
 Sample Matrix: WATER Date Reported : 26-MAR-96
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260	22-Mar	DB
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

RECEIVED MAR 28 1996

Laboratory Sample Number: L9601641-01
 AR-1-31896-912

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	22-Mar	DB
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	100.	%					
4-Bromofluorobenzene	95.0	%					
Dibromofluoromethane	99.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

RECEIVED MAR 28 1996

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9601641-02
 AR-2-31896-912
 Sample Matrix: WATER
 Condition of Sample: Satisfactory
 Number & Type of Containers: 2 Vial

Date Collected: 18-MAR-96
 Date Received : 19-MAR-96
 Date Reported : 26-MAR-96

Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260	22-Mar	DB
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

RECEIVED MAR 28 1996

Laboratory Sample Number: L9601641-02
 AR-2-31896-912

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued							22-Mar DB
1,2,3-Trichloropropane	ND	ug/l	10.		8260		
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	92.0	%					
4-Bromofluorobenzene	90.0	%					
Dibromofluoromethane	92.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

RECEIVED MAR 28 1996

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9601641-03
 AR-3-31896-912
 Sample Matrix: WATER
 Condition of Sample: Satisfactory
 Number & Type of Containers: 2 Vial

Date Collected: 18-MAR-96
 Date Received : 19-MAR-96
 Date Reported : 26-MAR-96
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260	22-Mar	DB
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

RECEIVED MAR 28 1996

Laboratory Sample Number: L9601641-03
AR-3-31896-912

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	22-Mar	DB
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	93.0	%					
4-Bromofluorobenzene	103.	%					
Dibromofluoromethane	94.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

RECEIVED MAR 28 1996

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9601641-04
 AR-4-31896-912
 Sample Matrix: WATER
 Condition of Sample: Satisfactory
 Number & Type of Containers: 2 Vial

Date Collected: 18-MAR-96
 Date Received : 19-MAR-96
 Date Reported : 26-MAR-96
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260	26-Mar	DB
Methylene chloride	ND	ug/l	500				
1,1-Dichloroethane	ND	ug/l	150				
Chloroform	ND	ug/l	150				
Carbon tetrachloride	ND	ug/l	100				
1,2-Dichloropropane	ND	ug/l	350				
Dibromochloromethane	ND	ug/l	100				
1,1,2-Trichloroethane	ND	ug/l	150				
2-Chloroethylvinyl ether	ND	ug/l	1000				
Tetrachloroethene	ND	ug/l	150				
Chlorobenzene	ND	ug/l	350				
Trichlorofluoromethane	ND	ug/l	500				
1,2-Dichloroethane	ND	ug/l	150				
1,1,1-Trichloroethane	ND	ug/l	100				
Bromodichloromethane	ND	ug/l	100				
trans-1,3-Dichloropropene	ND	ug/l	150				
cis-1,3-Dichloropropene	ND	ug/l	100				
Bromoform	ND	ug/l	100				
1,1,2,2-Tetrachloroethane	ND	ug/l	100				
Benzene	1600	ug/l	100				
Toluene	5500	ug/l	150				
Ethylbenzene	720	ug/l	100				
Chloromethane	ND	ug/l	1000				
Bromomethane	ND	ug/l	200				
Vinyl chloride	ND	ug/l	350				
Chloroethane	ND	ug/l	200				
1,1-Dichloroethene	ND	ug/l	150				
trans-1,2-Dichloroethene	ND	ug/l	150				
Trichloroethene	ND	ug/l	100				
1,2-Dichlorobenzene	ND	ug/l	1000				
1,3-Dichlorobenzene	ND	ug/l	1000				
1,4-Dichlorobenzene	ND	ug/l	1000				
Methyl tert butyl ether	1600	ug/l	1000				
Xylenes	4300	ug/l	100				
cis-1,2-Dichloroethene	ND	ug/l	100				
Dibromomethane	ND	ug/l	1000				
1,4-Dichlorobutane	ND	ug/l	1000				
Iodomethane	ND	ug/l	1000				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

RECEIVED MAR 28 1986

Laboratory Sample Number: L9601641-04
 AR-4-31896-912

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	26-Mar DB
1,2,3-Trichloropropane	ND	ug/l	1000			
Styrene	ND	ug/l	100			
Dichlorodifluoromethane	ND	ug/l	1000			
Acetone	ND	ug/l	1000			
Carbon Disulfide	ND	ug/l	1000			
2-Butanone	ND	ug/l	450			
Vinyl Acetate	ND	ug/l	1000			
4-Methyl-2-pentanone	ND	ug/l	1000			
2-Hexanone	ND	ug/l	1000			
Ethyl methacrylate	ND	ug/l	1000			
Acrolein	ND	ug/l	2500			
Acrylonitrile	ND	ug/l	1000			
Bromochloromethane	ND	ug/l	100			
2,2-Dichloropropane	ND	ug/l	100			
1,2-Dibromoethane	ND	ug/l	100			
1,3-Dichloropropane	ND	ug/l	100			
1,1,1,2-Tetrachloroethane	ND	ug/l	100			
Bromobenzene	ND	ug/l	100			
n-Butylbenzene	ND	ug/l	100			
sec-Butylbenzene	ND	ug/l	100			
tert-Butylbenzene	ND	ug/l	100			
o-Chlorotoluene	ND	ug/l	100			
p-Chlorotoluene	ND	ug/l	100			
1,2-Dibromo-3-chloropropane	ND	ug/l	100			
Hexachlorobutadiene	ND	ug/l	100			
Isopropylbenzene	ND	ug/l	100			
p-Isopropyltoluene	ND	ug/l	100			
Naphthalene	240	ug/l	100			
n-Propylbenzene	120	ug/l	100			
1,2,3-Trichlorobenzene	ND	ug/l	100			
1,2,4-Trichlorobenzene	ND	ug/l	100			
1,3,5-Trimethylbenzene	550	ug/l	100			
1,2,4-Trimethylbenzene	1400	ug/l	100			
trans-1,4-Dichloro-2-butene	ND	ug/l	100			
Ethyl ether	ND	ug/l	2500			
SURROGATE RECOVERY						
Toluene-d8	108.	%				
4-Bromofluorobenzene	108.	%				
Dibromofluoromethane	107.	%				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

RECEIVED MAR 28 1996

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9601641-05 Date Collected: 18-MAR-96
 AR-02-31896-912 Date Received : 19-MAR-96
 Sample Matrix: WATER Date Reported : 26-MAR-96
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260		26-Mar DB
Methylene chloride	ND	ug/l	500				
1,1-Dichloroethane	ND	ug/l	150				
Chloroform	ND	ug/l	150				
Carbon tetrachloride	ND	ug/l	100				
1,2-Dichloropropane	ND	ug/l	350				
Dibromochloromethane	ND	ug/l	100				
1,1,2-Trichloroethane	ND	ug/l	150				
2-Chloroethylvinyl ether	ND	ug/l	1000				
Tetrachloroethene	ND	ug/l	150				
Chlorobenzene	ND	ug/l	350				
Trichlorofluoromethane	ND	ug/l	500				
1,2-Dichloroethane	ND	ug/l	150				
1,1,1-Trichloroethane	ND	ug/l	100				
Bromodichloromethane	ND	ug/l	100				
trans-1,3-Dichloropropene	ND	ug/l	150				
cis-1,3-Dichloropropene	ND	ug/l	100				
Bromoform	ND	ug/l	100				
1,1,2,2-Tetrachloroethane	ND	ug/l	100				
Benzene	1700	ug/l	100				
Toluene	5600	ug/l	150				
Ethylbenzene	740	ug/l	100				
Chloromethane	ND	ug/l	1000				
Bromomethane	ND	ug/l	200				
Vinyl chloride	ND	ug/l	350				
Chloroethane	ND	ug/l	200				
1,1-Dichloroethene	ND	ug/l	150				
trans-1,2-Dichloroethene	ND	ug/l	150				
Trichloroethene	ND	ug/l	100				
1,2-Dichlorobenzene	ND	ug/l	1000				
1,3-Dichlorobenzene	ND	ug/l	1000				
1,4-Dichlorobenzene	ND	ug/l	1000				
Methyl tert butyl ether	1800	ug/l	1000				
Xylenes	4400	ug/l	100				
cis-1,2-Dichloroethene	ND	ug/l	100				
Dibromomethane	ND	ug/l	1000				
1,4-Dichlorobutane	ND	ug/l	1000				
Iodomethane	ND	ug/l	1000				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

RECEIVED MAR 28 1996

Laboratory Sample Number: L9601641-05
 AR-02-31896-912

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Volatile Organics by GC/MS continued 1 8260 26-Mar DB

1,2,3-Trichloropropane	ND	ug/l	1000				
Styrene	ND	ug/l	100				
Dichlorodifluoromethane	ND	ug/l	1000				
Acetone	ND	ug/l	1000				
Carbon Disulfide	ND	ug/l	1000				
2-Butanone	ND	ug/l	450				
Vinyl Acetate	ND	ug/l	1000				
4-Methyl-2-pentanone	ND	ug/l	1000				
2-Hexanone	ND	ug/l	1000				
Ethyl methacrylate	ND	ug/l	1000				
Acrolein	ND	ug/l	2500				
Acrylonitrile	ND	ug/l	1000				
Bromochloromethane	ND	ug/l	100				
2,2-Dichloropropane	ND	ug/l	100				
1,2-Dibromoethane	ND	ug/l	100				
1,3-Dichloropropane	ND	ug/l	100				
1,1,1,2-Tetrachloroethane	ND	ug/l	100				
Bromobenzene	ND	ug/l	100				
n-Butylbenzene	ND	ug/l	100				
sec-Butylbenzene	ND	ug/l	100				
tert-Butylbenzene	ND	ug/l	100				
o-Chlorotoluene	ND	ug/l	100				
p-Chlorotoluene	ND	ug/l	100				
1,2-Dibromo-3-chloropropane	ND	ug/l	100				
Hexachlorobutadiene	ND	ug/l	100				
Isopropylbenzene	ND	ug/l	100				
p-Isopropyltoluene	ND	ug/l	100				
Naphthalene	190	ug/l	100				
n-Propylbenzene	130	ug/l	100				
1,2,3-Trichlorobenzene	ND	ug/l	100				
1,2,4-Trichlorobenzene	ND	ug/l	100				
1,3,5-Trimethylbenzene	530	ug/l	100				
1,2,4-Trimethylbenzene	1400	ug/l	100				
trans-1,4-Dichloro-2-butene	ND	ug/l	100				
Ethyl ether	ND	ug/l	2500				

SURROGATE RECOVERY

Toluene-d8	104.	%					
4-Bromofluorobenzene	102.	%					
Dibromofluoromethane	101.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

RECEIVED MAR 28 1996

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9601641-06 Date Collected: 28-FEB-96
 AR-01-31896-912 Date Received : 19-MAR-96
 Sample Matrix: WATER Date Reported : 26-MAR-96
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260	21-Mar	DE
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

RECEIVED MAR 28 1996

Laboratory Sample Number: L9601641-06
 AR-01-31896-912

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued							
				1	8260	21-Mar	DB
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	102.	%					
4-Bromofluorobenzene	100.	%					
Dibromofluoromethane	100.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

R. RECEIVED MAR 28 1996

Laboratory Job Number: L9601641

Parameter	MS %	MSD %	RPD
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Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 06

1,1-Dichloroethene	80	102	24
Trichloroethene	107	109	2
Benzene	101	99	2
Toluene	91	100	9
Chlorobenzene	101	103	2

Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 01-03

1,1-Dichloroethene	97	101	4
Trichloroethene	100	107	7
Benzene	98	101	3
Toluene	104	106	2
Chlorobenzene	95	98	3

Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 04-05

1,1-Dichloroethene	95	88	8
Trichloroethene	106	101	5
Benzene	107	103	4
Toluene	101	93	8
Chlorobenzene	108	102	6

ALPHA ANALYTICAL LABS
ADDENDUM I

RECEIVED MAR 28 1996
RECEIVED MAR 28 1996

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

ALPHA

Analytical Laboratories, Inc.

Eight Walkup Drive
Westborough, MA 01581-1019
508-898-9220 FAX 508-898-9193

CHAIN OF CUSTODY RECORD and ANALYSIS REQUEST RECORD

No. 58481
Sheet 1 of 1

Company Name: ENVA ENV. TRC.

Project Number: 740912
P.O. Number: 3465

Project Name/Location: ANNE'S RESIDENCE
MT. HOLLY, VERMONT

Date Received in Lab: 3/19

Date Due: 2/25/01
3/26

Company Address: 105 MAIN ST.
FATTLEBORO, VT 05752

Phone Number: 508-898-9220
FAX No.: 508-898-9193

Project Manager: PAUL A.G. MILLER

Alpha Job Number: (Lab use only)
9601641

ALPHA Lab# (Lab Use Only)	Sample I.D.	Containers (number/type)	Matrix / Source	Method Preserve. (number of containers)						Solubles - F.E.	Sampling Date	Time	Analysis Requested
				Unpres.	Ice	Nitric	Sulfuric	HCl	Other				
1041	AR-1-31896-912	2/VG	W							3/19	1625	8260	
2	AR-2-31896-912	2/VG	W								1612		
3	AR-3-31896-912	2/VG	W								1612		
4	AR-4-31896-912	2/VG	W								1615		
5	AR-02-31896-912	2/VG	W								1635	M/C	
6	AR-01-31896-912	1/VG					1			2/28	1545	M/C	

Sampler's Signature: [Signature] Affiliation: ENVA Date: 3/19/01 Time: 11:55

NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	[Signature]	[Signature]	3/19	2 ⁵³ P
2	[Signature]	[Signature]	3/19	1705
3				
4				

ADDITIONAL COMMENTS:
ONE TRIP BLANK &
ONE DUPLICATE