

## ERD Environmental, Inc.

An ERD Waste Corp. Company

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February 25, 1997

Ms. Wendy Redlinger  
422 Meadowbrook Road  
Brattleboro, VT 05301

RE: Environmental Site Investigation Report  
Former Redlinger Property  
120 Jacksonville Stage Road, Guilford, VT  
Site #96-2056

FEB 25 10 21 AM '97

Dear Ms. Redlinger:

A copy of the above-referenced report has been enclosed for your review. Should you have questions regarding this report, please feel free to contact us at your convenience at 254-3677.

Sincerely yours,  
ERD Environmental, Inc.

Kimberly B. Mitchell  
Hydrogeologist

cc: Chuck Schwer, VT DEC

Enclosure

d:\docs\960707\sicov.let

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

**ENVIRONMENTAL  
SITE INVESTIGATION  
REPORT**

**Former Redlinger Property  
120 Jacksonville Stage Road  
Guilford, Vermont  
DEC Site #96-2056**

*Prepared For:*

Ms. Wendy Redlinger  
422 Meadowbrook Road  
Brattleboro, VT 05301

*Prepared By:*

ERD Environmental, Inc.  
205 Main Street  
Brattleboro, VT 05301  
800-359-3677 phone; 802-254-7630 fax  
Contact: Kimberly Mitchell  
Reviewed by: David Gagnon

**February 25, 1997**

ERD Environmental, Inc. Job #960707

Feb 25 10 30 AM '97

## EXECUTIVE SUMMARY

ERD Environmental, Inc. (formerly ENSA Environmental, Inc) of Brattleboro, Vermont, performed an environmental site investigation of the former Redlinger residence located at 120 Jacksonville Stage Road in Guilford, Vermont (the site). Previous work conducted at the site included the removal of a 265-gallon gasoline underground storage tank (UST). The tank was removed in July 1996 along with approximately five cubic yards of gasoline-contaminated soils. The soils were polyencapsulated at the site until the Vermont Department of Conservation granted approval for spreading of the soils at the site.

A subsurface investigation was conducted to determine that the full extent of the contamination had been delineated and to identify any sensitive receptors which might be impacted by such contamination. This investigation included the advancement of three soil borings in and around the former tank grave. Soils collected from each of the borings, RK-1 through RK-3, were screened in the field using a photoionization detector (PID). No evidence of contamination was noted in the site soils.

Monitoring wells were constructed at the three boring locations. Relative groundwater elevation data from field measurements indicated that groundwater on the eastern portion of the property generally flows east-northeast.

Groundwater samples collected from the on-site monitoring wells were laboratory analyzed for the presence of volatile organic compounds (VOCs) and total lead. Tetrachloroethene (PCE), a chlorinated solvent, was detected in the RK-3 groundwater sample at a concentration slightly above Vermont standards, but below the Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL). Total lead was detected in a groundwater sample collected from monitoring well RK-2. Total lead is not regulated by the State of Vermont and EPA. Specific sources of the PCE and lead in the site groundwater samples were not identified.

VH AL  
15 PPb

Due to the detection of PCE and total lead in site groundwater samples, a second groundwater sampling round was conducted at the site. Groundwater samples were analyzed for the presence of VOCs and dissolved metals. No detectable levels of PCE or dissolved lead were identified in the samples.

In addition to the groundwater samples collected from the monitoring wells, a sample was collected from the on-site drinking water supply well. Methylene chloride was detected in the drinking water sample as well as

the trip blank, at concentrations below Vermont standards. Inadvertent laboratory interference is the likely source of the methylene chloride. During a second sampling round, methylene chloride was not detected in the drinking water sample.

Based on the findings of this investigation, ERD recommends that a Site Management Activity Completed (SMAC) designation be assigned to the site.

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- Appendix C Groundwater Potentiometric Surface Map
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## **1.00 INTRODUCTION**

In July 1996, a 265-gallon gasoline underground storage tank (UST) was removed from the former Redlinger property located at 120 Jacksonville Stage Road in Guilford, Vermont (the site). Soils in the vicinity of the tank were screened with a photoionization detector (PID). The maximum PID reading was 130 parts per million (ppm). Approximately five cubic yards of gasoline-contaminated soils were excavated and polyencapsulated at the site. ERD Environmental, Inc. (formerly known as ENSA Environmental, Inc.) of Brattleboro, Vermont supervised the tank removal and submitted tank removal forms to the Vermont Department of Environmental Conservation (VT DEC). After reviewing that information, VT DEC required that additional work be conducted to determine that the full extent of the contamination had been delineated and to identify sensitive receptors which might be impacted by such contamination. This work included limited subsurface exploration in the vicinity of the former gasoline UST. The work was completed under the Vermont Site Investigation Expressway Notification program.

Conclusions and recommendations generated in this report are based solely on information obtained during the course of this investigation. Changes in site conditions or new information not available for review at the time of this investigation may necessitate an update of conclusions and recommendations presented in this report.

## **2.00 SITE DESCRIPTION**

The former Redlinger property is located along the north side of Jacksonville Stage Road, approximately 1.25 miles west of the Jacksonville Stage Road/Sweet Pond Road intersection. The site, as well as some properties in the site area, are used for residential purposes. Wooded areas and farmland is also located in the vicinity of the site. A site locus map is included in Appendix A.

According to the United States Geological Society (USGS) Topographic Map of the Brattleboro, Vermont quadrangle, the site slopes gently to the east and northeast. The approximate elevations of the southwest and northeast corners of the site are 333 meters (1,093 feet) and 330 meters (1,083 feet) above mean sea level, respectively. The map shows an intermittent, eastward flowing stream south of the site across Jacksonville Stage Road. The stream is generated by runoff from a nearby hillside. Runoff also flows in a south-southwesterly direction from a hillside located north of the site then discharges to an unnamed, eastward flowing stream.

### **3.00 SUBSURFACE EXPLORATIONS AND ANALYSES**

#### **3.10 Soil Borings and Monitoring Wells**

Three soil borings were advanced at the site on November 8, 1996 by T & K Drilling of Troy, New Hampshire. Monitoring wells were constructed in these borings to assess groundwater quality and flow direction on the site. ERD personnel supervised the drilling and subsequent monitoring well installation activities. T & K Drilling completed boring and well installation activities using a mobile drill rig equipped with hollow stem augers. The soil boring/well construction diagrams are included in Appendix B.

This subsurface investigation was performed in order to delineate the degree and extent of contamination remaining at the site. Monitoring well RK-1 was installed in the former gasoline UST grave to assess soil and groundwater quality in the area. The other two wells, RK-2 and RK-3, were placed north and east-southeast of the former UST, respectively, to intercept potential contamination originating from the tank. Areas located north-northeast to east-northeast of the former UST were not accessible due to the presence of the stockpiled soils, trees, and unstable ground conditions. The well locations are shown on a figure included in Appendix C.

#### **3.20 Field Screening of Site Soil**

During drilling, split-spoon soil samples were collected at 5-foot depth intervals at each boring location. Soil samples were field screened for volatile organic compounds (VOCs) with a Thermo Environmental Instruments Model 580B Organic Vapor Meter (OVM), field calibrated to 250 ppm of an isobutylene span gas. No positive responses greater than background readings were detected, consequently no soil samples were submitted for laboratory analysis.

Boring RK-1 was advanced in the former gasoline UST location. The soils collected from this boring consisted mostly of brown sand and silt underlain by blue/gray sand and silt. Soils at the other two borings were composed primarily of brown sand and silt. Some medium gravel was encountered at the bottom of borings RK-2 and RK-3. No physical or olfactory evidence of contamination was detected during the advancement of the borings. Soil conditions are summarized on the boring logs included in Appendix B.

As previously mentioned, approximately five cubic yards of gasoline-contaminated soils were excavated during tank removal activities that occurred in July 1996. These

contaminated soils were polyencapsulated at the site. On November 8, 1996, ERD personnel screened the stockpiled soils with an OVM. Three soil samples were collected at depths of approximately 3 feet into the pile. No VOCs were detected with the OVM, and no olfactory or visual evidence of contamination was encountered during the sampling. This information was conveyed to VT DEC personnel in a letter dated November 15, 1996. Following this notification, VT DEC personnel granted approval for spreading of the soils at the site.

### 3.30 Groundwater Levels and Flow Direction

On November 18, 1996, the site monitoring wells and other pertinent site features were surveyed. The elevations were established relative to an arbitrary elevation of 100.00 feet, located at the southwest corner of the garage. Groundwater levels were gauged at each of the monitoring wells on November 18, 1996 and February 5, 1997. Due to surface water runoff into monitoring well RK-2 on February 5, 1997, data collected on this date were not to calculate groundwater elevations. The groundwater depths were measured from the polyvinyl chloride (PVC) well heads using a Solinst Model 101 electronic water level indicator accurate to 0.01 feet. Depth to groundwater ranged from 2.69 to 4.14 feet, as measured at monitoring wells RK-1 and RK-3, respectively. The groundwater elevation data are included in Table 1. The groundwater potentiometric surface map included in Appendix C indicates that groundwater flow on the eastern portion of the property is to the east-northeast.

**Table 1. Groundwater Elevation Survey Data**

Well I.D.	PVC Elevation <sup>1</sup> (feet)	Depth to Groundwater (feet)		Groundwater Elevation <sup>2</sup> (feet)
		11/18/96	2/5/97	
RK-1	99.90	2.69	4.28	97.21
RK-2	98.64	2.77	4.85 <sup>3</sup>	95.87
RK-3	99.63	4.14	5.22	95.49

1 = Elevations relative to an arbitrary elevation of 100.00 feet established at the southwest corner of the garage.  
 2 = Elevations calculated using November 18, 1995 data.  
 3 = Measurement may have been affected by surface water runoff.

### **3.40 Laboratory Analysis of Groundwater Samples**

Groundwater samples were collected from the three monitoring wells on November 18, 1996. Prior to sample collection, three well volumes of groundwater were removed from each of the monitoring wells using new, disposable polyethylene bailers. No visual or olfactory evidence of contamination was detected during groundwater purging and sampling activities. The groundwater samples were laboratory analyzed for the presence of VOCs using Environmental Protection Agency (EPA) Method 8260 and total lead analysis using EPA Method 6010. A duplicate sample was collected from monitoring well RK-1 for quality control purposes.

In addition, a water sample collected from the on-site drinking water supply well was submitted for VOCs analysis using EPA Method 524.2 and total lead analysis using EPA Method 3005/3050. A faucet along the northern exterior side of the on-site residential dwelling was the drinking water sampling point. According to a current site owner, no filtration devices are in use at the site. The water at the faucet was turned on and allowed to run for approximately 15 minutes prior to sample collection. The drinking water and groundwater samples were refrigerated and transported to Alpha Analytical Laboratories in Westborough, Massachusetts for analysis. A trip blank accompanied the samples.

The groundwater analytical results are included in Appendix D. According to the results, tetrachloroethene (PCE) was detected in the RK-3 groundwater sample at a concentration of 3.8 micrograms per liter (ug/L). This concentration of PCE exceeds the Vermont Health Advisory and Vermont DEC Primary Groundwater Quality Enforcement Standard (PGQES) of 0.70 ug/L, but is less than the EPA Maximum Contaminant Level of 5 ug/L. Methylene chloride was identified in the drinking water sample and trip blank at concentrations of 0.99 and 3.7 ug/L, respectively. These concentrations are below the PGQES of 5 ug/L. Total lead was detected in the RK-2 groundwater sample at a concentration of 50 ug/L. Total lead is not regulated by the State of Vermont or EPA. However, the Vermont Health Advisory and PGQES for dissolved lead are 15 ug/L and 20 ug/L, respectively.

Based on groundwater analysis results, VT DEC personnel approved the resampling of the groundwater to confirm the presence of the PCE and methylene chloride. The second sampling round was conducted on February 5, 1997. Groundwater samples were laboratory analyzed for the presence of VOCs using EPA Method 8260 and dissolved metals using EPA Method 3005/3050. The groundwater samples were analyzed for the presence of dissolved metals for comparison to Vermont standards. A duplicate sample was collected from

monitoring well RK-1 for quality control purposes. In addition, a drinking water sample collected from the on-site well was submitted for VOCs analysis using EPA Method 524.2 and dissolved metals analysis using EPA Method 3005/3050. As during the first round, this sample was collected from the exterior faucet.

According to laboratory analysis results, no PCE was detected in the groundwater samples collected during the second sampling round. Petroleum-related VOCs, including naphthalene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, and xylenes were identified in the RK-1 groundwater samples. The xylene concentration of 2.0 ug/L was below the PGQES of 400 ug/L. There are no PGQES for naphthalene, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene. The groundwater samples were also analyzed for dissolved metals. Dissolved barium concentrations in the monitoring well samples ranged from 40 ug/L to 70 ug/L. The PGQES for dissolved barium is 1,000 ug/L. The laboratory analysis results from both sampling rounds are included in Table 2.

**Table 2. Laboratory Analysis Results of Groundwater**

Date	Compound (ug/L)	VT PGQES	RK-1	RK-2	RK-3	DW
11/18/96	Methylene chloride	5.0 MCL	ND/ND	ND	ND	0.99
	Tetrachloroethene	0.70	ND/ND	ND	3.8	ND
	Total lead	NE VHAL 15	ND/ND	50	ND	ND
2/5/97	Naphthalene	NE VHAL 20	18/14	ND	ND	ND
	1,3,5-trimethylbenzene	NE VHAL 4.0	1.3/1.0	ND	ND	ND
	1,2,4-trimethylbenzene	NE VHAL 5.0	8.1/6.4	ND	ND	ND
	Xylenes	400.0 VHAL 10,000	2.0/ND	ND	ND	ND
	Dissolved barium	1,000 VHAL 2,000	70/50	40	90	ND

DW = Drinking water sample  
 ND = Not detected  
 NE = Not established  
 Slash (/) indicates duplicate sample taken.

Depth to GW	
11-18-96	2-5-97
RK1 2.69	4.28
RK2 2.77	4.85
RK3 4.14	5.22

**4.00 RISK EVALUATION**

**4.10 Potential Sources**

During the first sampling round, PCE, a chlorinated solvent, was detected in the RK-3 groundwater sample. The contamination may have originated from a minor on-site release, although a specific source of PCE was not identified at the site. No detectable levels of PCE

were identified in the groundwater samples collected during the second sampling round.

The on-site drinking water supply and the trip blank were analyzed for the presence of VOCs using EPA Method 524.2. Methylene chloride was identified in both samples during the first sampling round. The presence of this compound in both samples is indicative of a laboratory or field error, and not related to site conditions. Since the compound is routinely used by the laboratory for the preparation of samples, laboratory contamination is the likely source of methylene chloride in these two samples.

Total lead was detected in the groundwater sample collected from monitoring well RK-2. Lead is an inorganic compound found in both soil and groundwater. In addition, lead was commonly used as a gasoline additive. Total lead was not identified in RK-1 groundwater; therefore, former gasoline storage at the site does not appear to be the source of lead in the groundwater. The groundwater samples were resampled and analyzed for the presence of dissolved metals and no dissolved lead was detected.

During the second sampling round, low levels of petroleum-related VOCs were identified in the RK-1 groundwater samples. This well was installed in the former UST location. The former UST represents a likely source of the groundwater contamination. No petroleum-related compounds were detected in the RK-1 groundwater sample during the first sampling round. The decrease in groundwater levels may be attributable to the detection of petroleum-related compounds in the second sampling round.

#### **4.20 Potential Receptors**

The potential sensitive receptors of most immediate concern are the occupants of the site and properties to the east. The on-site drinking water supply well is located approximately 170 feet northwest and hydraulically upgradient of the former gasoline UST. No VOCs indicative a release of petroleum or hazardous materials were found in the on-site drinking water sample.

With the exception of RK-1, no petroleum-related VOCs were identified in the site groundwater samples. The low VOC levels identified in this well RK-1, which was installed in the former tank grave, would not be expected to adversely impact the drinking water supply well on the eastern abutting property.

As mentioned in Section 2.00, an intermittent stream is located south of the site across Jacksonville Stage Road. The stream was inspected and no visible sheens or odors were noted

in the vicinity of the stream. Based on an east-northeasterly groundwater flow direction at the site, the low contaminant levels identified in the site groundwater sample would not be expected to adversely impact the stream.

## **5.00 CONCLUSIONS AND RECOMMENDATIONS**

### **5.10 Conclusions**

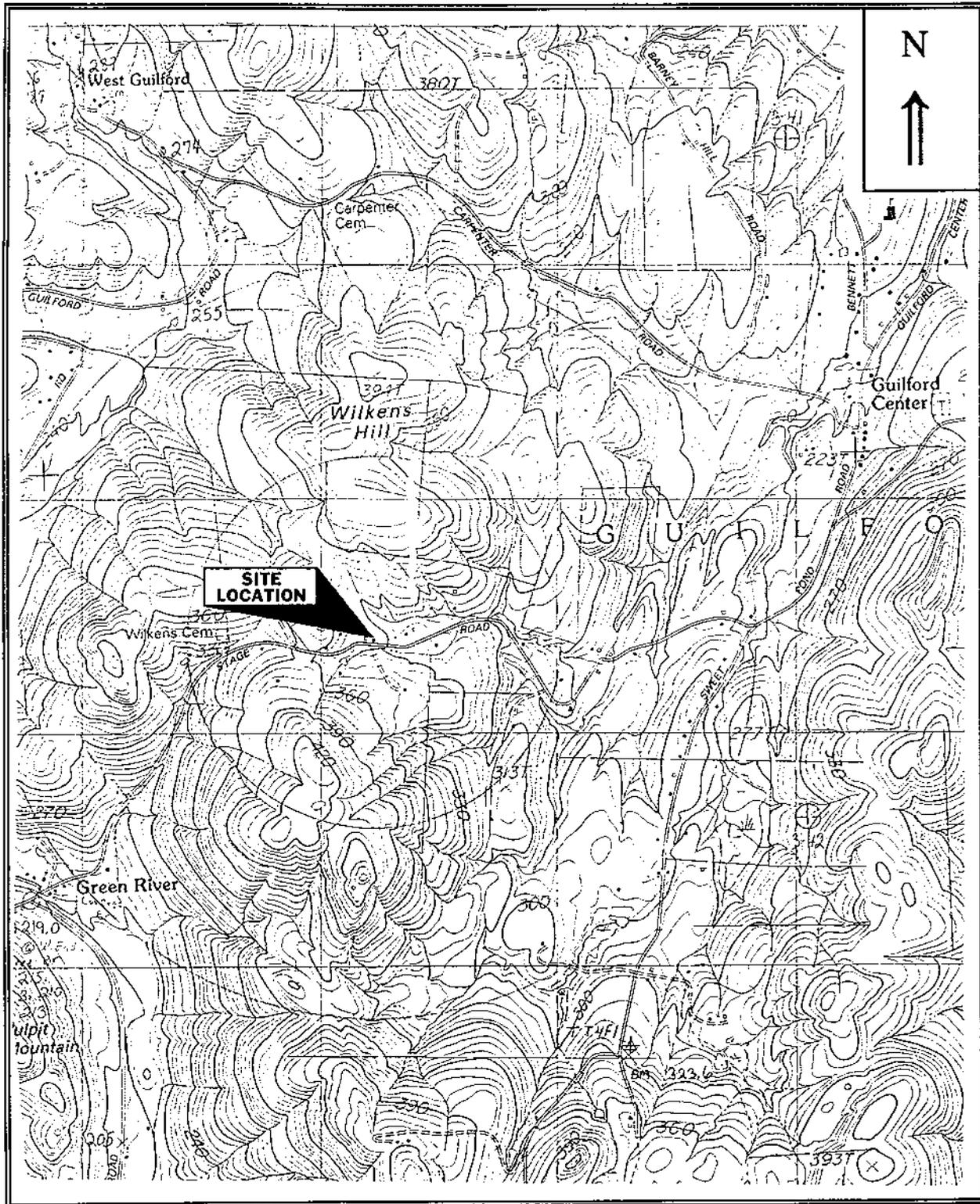
- Monitoring well RK-1 was installed in the former gasoline UST location. During drilling activities, no further soil contamination was identified in the tank grave. Based on laboratory analytical results, low levels of petroleum-related compounds were identified in the groundwater samples collected from monitoring well RK-1.
- A low level of PCE (3.8 ug/L) was identified in the RK-3 groundwater sample during the first sampling round. The PCE concentration is below the EPA MCL (5 ug/L), but exceeds Vermont standards (0.70 ug/L). Groundwater from this well was resampled and no detectable levels of PCE were identified.
- Total lead was detected in a groundwater sample collected from monitoring well RK-2. Site groundwater was resampled for dissolved metals for comparison to Vermont standards, and dissolved lead was not identified in any of the groundwater samples.
- Methylene chloride was originally detected in the on-site drinking water sample and trip blank at concentrations below Vermont regulatory standards. Inadvertent laboratory interference is the likely source of the methylene chloride. No detectable levels of methylene chloride were found in the drinking water sample during the second sampling round.

### **5.20 Recommendations**

Based on the low contaminant levels detected in the site groundwater samples and unlikelihood to impact sensitive receptors, ERD Environmental, Inc. recommends that a Site Management Activity Completed (SMAC) designation be assigned to the site.

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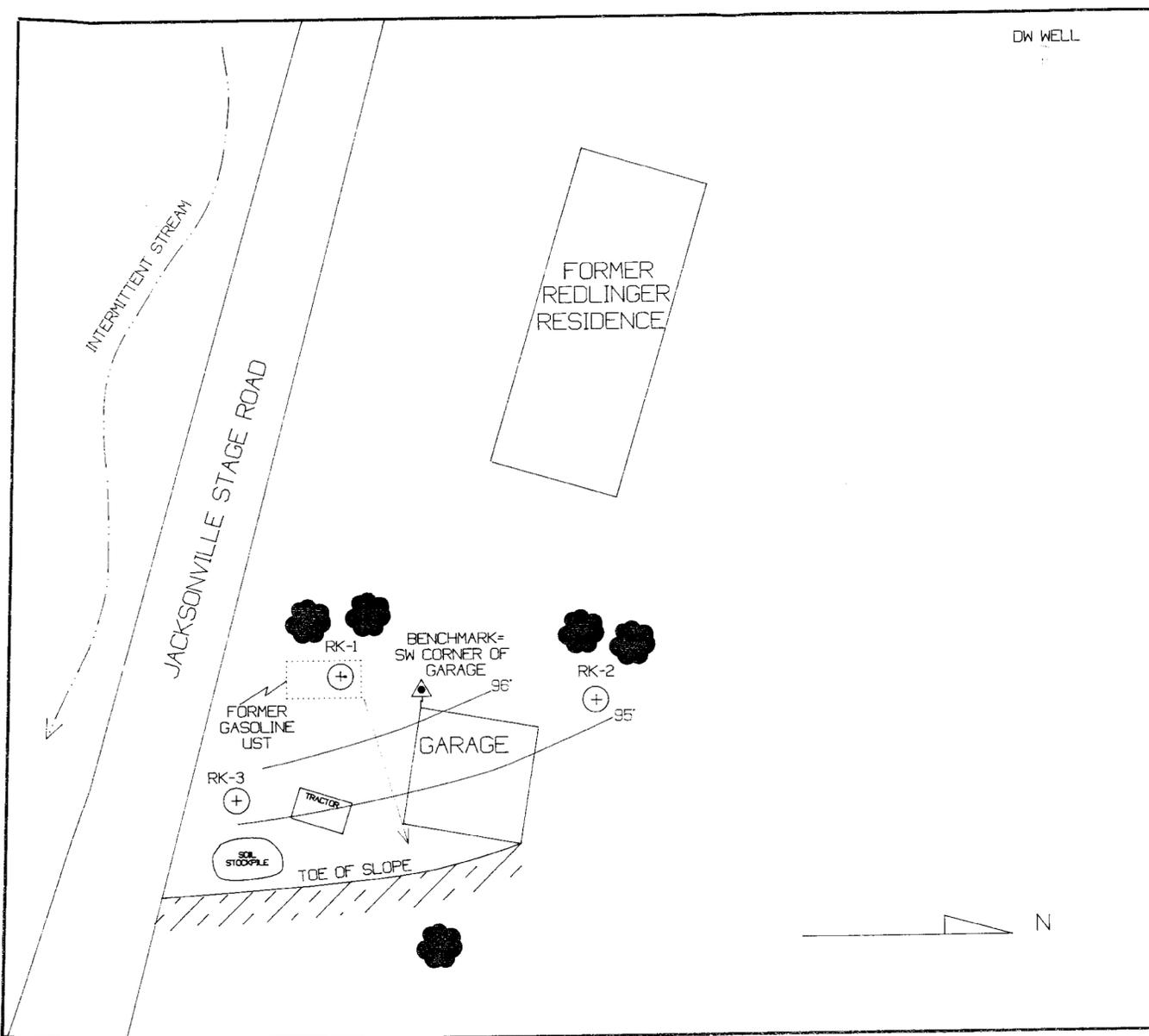
*APPENDIX A*  
*SITE LOCUS MAP*



Site Locus Map	Brattleboro, VT-NH 7.5 X 15 Minute Quadrangle Topographic Map 1:25000 Scale Metric 1984 Provisional Edition	Redlinger Property Jacksonville Stage Road Guilford, Vermont
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***APPENDIX B***

***GROUNDWATER POTENTIOMETRIC SURFACE MAP***



GROUNDWATER POTENTIOMETRIC  
MAP FOR 11/18/96

FORMER REDLINGER PROPERTY  
JACKSONVILLE STAGE ROAD  
GUILFORD, VERMONT

LEGEND

RK-1  
⊕ MONITORING WELL

96' GROUNDWATER CONTOUR (FEET)

DW WELL  
DRINKING WATER WELL

GROUNDWATER FLOW DIRECTION

TREES

MONITORING WELL GROUNDWATER ELEVATIONS (FEET)	
RK-1	97.21
RK-2	95.49
RK-3	95.87

ELEVATIONS RELATIVE TO ARBITRARY  
ELEVATION OF 100.00 FEET ESTABLISHED AT  
SOUTHWEST CORNER OF THE GARAGE

SCALE  
1 : 240

0      20      40 FEET

Drawn By: N. Juaire 12/5/96  
Revised By: N. Juaire 2/25/97 /0707SM

PREPARED BY:  
ERD ENVIRONMENTAL, INC  
P.O. BOX 1760, 205 MAIN STREET  
BRATTLEBORO, VT 05302

***APPENDIX C***

***SOIL BORING/MONITORING WELL CONSTRUCTION LOGS***

**ERD ENVIRONMENTAL, INC.**  
**SOIL BORING/MONITORING WELL LOG**

Project #: <u>960707</u> Date: <u>11/8/96</u> Project Name: <u>Former Redlinger</u> Location: <u>Guilford, VT</u> Driller: <u>T &amp; K Drilling</u> TEC Personnel: <u>DB</u> Boring/Well #: <u>RK-1</u> Sheet <u>1</u> of <u>1</u>	<div style="display: flex; justify-content: space-between;"> <span>HOUSE</span> <span>DECK</span> <span>SITE LOCUS</span> <span>GARAGE</span> </div>
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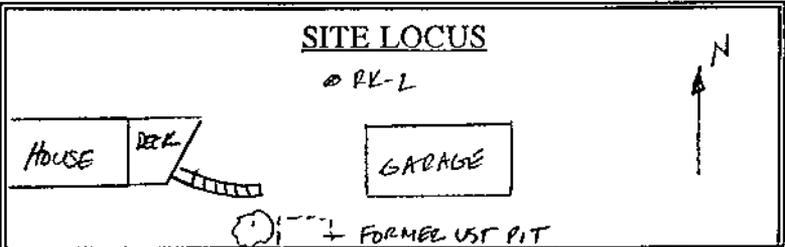
Depth (ft.)	Blow Counts				Rec. (in.)	OVM (ppm)	Soil Characterization	As-Built Diagram
	0-6	6-12	12-18	18-24				
0-2	Off	Augers				ND	Dark brown well sorted sand & some silt	
5-7	4	6	6	7	6	ND	Moist dark brown fine sand & silt	
10-12	34	27	34	60	10	ND	Dark brown sand, silt, & medium gravel	
15-17	21	39	34	100/5"	28	ND	Blue/gray sand & silt	
20-22	33	29	31	42	18	ND	Blue/gray sand & silt	

Drilling Method: <u>HSA</u>	Screen Diameter: <u>2"</u> Length: <u>15'</u>
Total Well Depth: <u>20'</u>	Riser Diameter: <u>2"</u> Length: <u>5'</u>
Groundwater Depth: <u>≈ 5</u>	Slot Size: <u>10</u>
PVC Elevation: <u>99.90'</u>	Ground Elevation: <u>100.36'</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

**ERD ENVIRONMENTAL, INC.**  
**SOIL BORING/MONITORING WELL LOG**

Project #: 960707 Date: 11/8/96  
 Project Name: Former Redlinger  
 Location: Guilford, VT  
 Driller: T & K Drilling  
 TEC Personnel: DCB  
 Boring/Well #: RK-2 Sheet 1 of 1

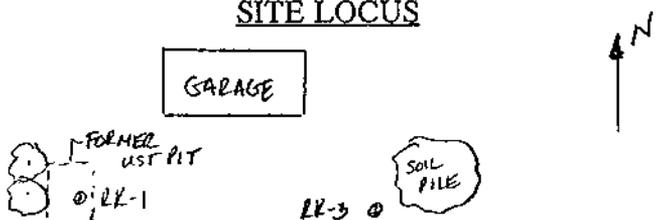
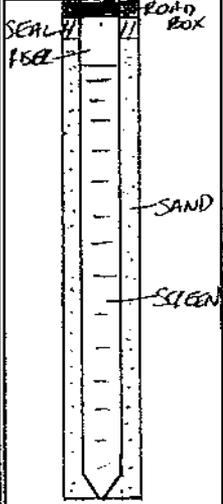


Depth (ft.)	Blow Counts				Rec. (in.)	OVM (ppm)	Soil Characterization	As Built Diagram
	0-6	6-12	12-18	18-24				
0-2	Off	Augers				ND	Dark brown organic material with some silt & sand	
5-7	4	5	7	8	18	ND	Moist dark brown fine sand & silt	
10-12	6	15	16	19	18	ND	Dark brown sand, silt, & medium gravel	
							End of boring at 13'	

Drilling Method: <u>HSA</u>	Screen Diameter: <u>2"</u> Length: <u>10'</u>
Total Well Depth: <u>13'</u>	Riser Diameter: <u>2"</u> Length: <u>3'</u>
Groundwater Depth: <u>~5</u>	Slot Size: <u>10</u>
PVC Elevation: <u>98.64'</u>	Ground Elevation: <u>99.12'</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

**ERD ENVIRONMENTAL, INC.**  
**SOIL BORING/MONITORING WELL LOG**

Project #: <u>960707</u> Date: <u>11/8/96</u> Project Name: <u>Former Redlinger</u> Location: <u>Guilford, VT</u> Driller: <u>T &amp; K Drilling</u> TEC Personnel: <u>DCB</u> Boring/Well #: <u>RK-3</u> Sheet <u>1</u> of <u>1</u>					<b>SITE LOCUS</b> 			
Depth (ft.)	Blow Counts				Rec. (in.)	OVM (ppm)	Soil Characterization	As Built Diagram
	0-6	6-12	12-18	18-24				
0-2	Off	Augers				ND	Dark brown well sorted sand & some silt	
5-7	5	6	7	9	20	ND	Moist dark brown fine sand & silt	
10-12	11	14	16	9	20	ND	Dark brown sand, silt, & medium gravel	
							End of boring at 13'	
Drilling Method: <u>HSA</u>		Screen Diameter: <u>2"</u> Length: <u>10'</u>						
Total Well Depth: <u>13'</u>		Riser Diameter: <u>2"</u> Length: <u>3'</u>						
Groundwater Depth: <u>≈ 5</u>		Slot Size: <u>10</u>						
PVC Elevation: <u>99.63'</u>		Ground Elevation: <u>100.03'</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 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

*APPENDIX D*  
*LABORATORY ANALYSIS RESULTS*

ALPHA ANALYTICAL LABORATORIES

RECEIVED DEC 02 1996

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

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

CERTIFICATE OF ANALYSIS

Client: ERD Environmental, Inc.

Laboratory Job Number: L9608635

Address: 205 Main Street  
PO Box 1760  
Brattleboro, VT 05302

Invoice Number: 88930

Date Received: 18-NOV-96

Attn: Kim Mitchell

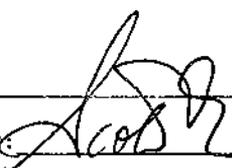
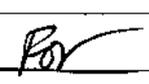
Date Reported: 26-NOV-96

Project Number: 960707

Delivery Method: Alpha

Site: Redlinger Tank Rem.

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9608635-01	RK1-111896-960707	Guilford
L9608635-02	RK3-111896-960707	Guilford
L9608635-03	RK2-111896-960707	Guilford
L9608635-04	RK02-111896-960707	Guilford
L9608635-05	RKDW-111896-960707	Guilford
L9608635-06	RK01-111896-960707	Guilford

Authorized by:  

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED DEC 02 1996

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9608635-01 Date Collected: 18-NOV-96  
 RK1-111896-960707 Date Received : 18-NOV-96  
 Sample Matrix: WATER Date Reported : 26-NOV-96  
 Condition of Sample: Satisfactory Field Prep: None

Number & Type of Containers: 2 Vial,1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Total Metals				1	3005/3050		
Lead, Total	ND	mg/l	0.05	1	6010	20-Nov 21-Nov	GF
Volatile Organics by GC/MS				1	8260	25-Nov	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	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.0				
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				

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED DEC 02 1996

Laboratory Sample Number: L9608635-01  
 RK1-111896-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	B260	25-Nov	DB
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.				
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	98.0	%
Dibromofluoromethane	99.0	%

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED DEC 02 1996

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9608635-02 Date Collected: 18-NOV-96  
 Sample Matrix: WATER Date Received: 18-NOV-96  
 Condition of Sample: Satisfactory Date Reported: 26-NOV-96  
 Field Prep: None  
 Number & Type of Containers: 2 Vial, 1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Total Metals				1	3005/3050		
Lead, Total	ND	mg/l	0.05	1	6010	20-Nov 21-Nov	GF
Volatile Organics by GC/MS				1	8260		25-Nov 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	3.8	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	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.0				
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				

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED DEC 02 1996

Laboratory Sample Number: L9608635-02  
 RK3-111896-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	ID
						PREP ANALYSIS	
Volatile Organics by GC/MS continued				1	8260	25-Nov	DB
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.				
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	101.	%
4-Bromofluorobenzene	101.	%
Dibromofluoromethane	100.	%

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED DEC 02 1996

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9608635-03 Date Collected: 18-NOV-96  
 RK2-111896-960707 Date Received : 18-NOV-96  
 Sample Matrix: WATER Date Reported : 26-NOV-96  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2 Vial,1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Total Metals				1	3005/3050		
Lead, Total	0.05	mg/l	0.05	1	6010	20-Nov 21-Nov	GF
Volatile Organics by GC/MS				1	8260		25-Nov 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	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.0				
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				

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED DEC 02 1996

Laboratory Sample Number: L9608635-03  
 RK2-111896-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued							DB
				1	8260	25-Nov	
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.				
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	101.	%					
4-Bromofluorobenzene	101.	%					
Dibromofluoromethane	100.	%					

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED 11 02 1996

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9608635-04 Date Collected: 18-NOV-96  
 RK02-111896-960707 Date Received : 18-NOV-96  
 Sample Matrix: WATER Date Reported : 26-NOV-96  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2 Vial, 1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Total Metals				1	3005/3050		
Lead, Total	ND	mg/l	0.05	1	6010	20-Nov 21-Nov	GF
Volatile Organics by GC/MS				1	8260		25-Nov 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	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.0				
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				

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED DEC 02 1996

Laboratory Sample Number: L9608635-04  
 RK02-111896-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	25-Nov	DB
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.				
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	99.0	%
Dibromofluoromethane	98.0	%

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED NOV 02 1996

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9608635-05 Date Collected: 18-NOV-96  
 RKDW-111896-960707 Date Received : 18-NOV-96  
 Sample Matrix: WATER Date Reported : 26-NOV-96  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2 Vial,1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Total Metals				4	200.1/2		
Lead, Total	ND	mg/l	0.002	4	200.9	25-Nov	GF
Volatile Organics by GC/MS				14	524.2	20-Nov	DB
Methylene chloride	0.99	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
Xylenes	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED DEC 02 1996

Laboratory Sample Number: L9608635-05  
 RKDW-111896-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	ID
						PREP ANALYSIS	
Volatile Organics by GC/MS continued				14	524.2		20-Nov DB
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropene	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropene	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
SURROGATE RECOVERY							
1,2-Dichlorobenzene-d4	100.	%					
4-Bromofluorobenzene	99.0	%					

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

REC... 02 1996

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9608635-06  
 RK01-111896-960707

Date Collected: 22-OCT-96  
 Date Received : 18-NOV-96  
 Date Reported : 26-NOV-96

Sample Matrix: WATER

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							14	524.2	20-Nov	DB
Methylene chloride	3.7	ug/l	0.50							
1,1-Dichloroethane	ND	ug/l	0.50							
Chloroform	ND	ug/l	0.50							
Carbon tetrachloride	ND	ug/l	0.50							
1,2-Dichloropropane	ND	ug/l	0.50							
Dibromochloromethane	ND	ug/l	0.50							
1,1,2-Trichloroethane	ND	ug/l	0.50							
Tetrachloroethene	ND	ug/l	0.50							
Chlorobenzene	ND	ug/l	0.50							
Trichlorofluoromethane	ND	ug/l	0.50							
1,2-Dichloroethane	ND	ug/l	0.50							
1,1,1-Trichloroethane	ND	ug/l	0.50							
Bromodichloromethane	ND	ug/l	0.50							
trans-1,3-Dichloropropene	ND	ug/l	0.50							
cis-1,3-Dichloropropene	ND	ug/l	0.50							
Bromoform	ND	ug/l	0.50							
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50							
Benzene	ND	ug/l	0.50							
Toluene	ND	ug/l	0.50							
Ethylbenzene	ND	ug/l	0.50							
Xylenes	ND	ug/l	0.50							
Chloromethane	ND	ug/l	0.50							
Bromomethane	ND	ug/l	0.50							
Vinyl chloride	ND	ug/l	0.50							
Chloroethane	ND	ug/l	0.50							
1,1-Dichloroethene	ND	ug/l	0.50							
trans-1,2-Dichloroethene	ND	ug/l	0.50							
cis-1,2-Dichloroethene	ND	ug/l	0.50							
Trichloroethene	ND	ug/l	0.50							
1,2-Dichlorobenzene	ND	ug/l	0.50							
1,3-Dichlorobenzene	ND	ug/l	0.50							
1,4-Dichlorobenzene	ND	ug/l	0.50							
Styrene	ND	ug/l	0.50							
o-Xylene	ND	ug/l	0.50							
1,1-Dichloropropene	ND	ug/l	0.50							
2,2-Dichloropropene	ND	ug/l	0.50							
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50							

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED 11 02 1996

Laboratory Sample Number: L9608635-06  
 RK01-111896-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	ID
						PREP ANALYSIS	
Volatile Organics by GC/MS continued				14	524.2		20-Nov DB
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
SURROGATE RECOVERY							
1,2-Dichlorobenzene-d4	84.0	%					
4-Bromofluorobenzene	88.0	%					

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

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

RECEIVED DEC 02 1996

Laboratory Job Number: L9608635

Parameter	Value 1	Value 2	RPD	Units
Total Metals	DUPLICATE for sample(s) 01-04			
Lead, Total	ND	ND	NC	mg/l
Total Metals	DUPLICATE for sample(s) 05			
Lead, Total	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

RECEIVED DEC 02 1996

Laboratory Job Number: L9608635

Parameter	% Recovery
Total Metals	SPIKE for sample(s) 01-04
Lead, Total	102
Total Metals	SPIKE for sample(s) 05
Lead, Total	120

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

RECEIVED DEC 02 1996

Laboratory Job Number: L9608635

Parameter	MS %	MSD %	RPD
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Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 05-06

1,1-Dichloroethene	100	104	4
Trichloroethene	104	106	2
Benzene	107	102	5
Toluene	106	101	5
Chlorobenzene	107	97	10

Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 01-04

1,1-Dichloroethene	117	112	4
Trichloroethene	107	105	2
Benzene	104	102	2
Toluene	111	99	11
Chlorobenzene	104	104	0

RECEIVED 2 1996

REFERENCES

RECEIVED 2 1996

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.
4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-82-055. 1983.
14. Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. Available from USEPA, Cincinnati, 26 West Martin Luther King Drive, Cincinnati, Ohio, 45268.

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.

00702

# 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. 61741  
Sheet 1 of 1

Company Name: **SED ENVIRONMENTAL, INC.**  
 Company Address: **205 MAIN ST. P.O. Box 1760 BRITTON VT 05302**  
 Project Number: **960707**  
 P.O. Number: **4316**  
 Phone Number: **800-359-3677**  
 FAX No.: **802-251-7630**  
 Project Name/Location: **GULFPORT Road/ASER Tank Lim.**  
 Date Received in Lab: **11/18**  
 Date Due: **1 WK. 1/25**  
 Project Manager: **KIM MITCHELL**  
 Alpha Job Number: (Lab use only) **9608635**

Alpha Lab # (Lab Use Only)	Sample I.D.	Containers (number/type)	Matrix / Source	Method Preserve. (number of containers)				Solubles - F.H.	Sampling Date Time	Analysis Requested
				Nitric	Sulfuric	HCl	Other			
8635.1	RK1-111896-960707	2-V/G 1-Liter/P	MW	X	X	X	X	11/18/96 10:00	B200 + <del>DISINTEGRATED</del> LEAD	
2	RK3-111896-960707	2-V/G 1-Liter/P	MW	X	X	X	X	11/18/96 10:15		
3	RK2-111896-960707	2-V/G 1-Liter/P	MW	X	X	X	X	11/18/96 10:20		
4	RK02-111896-960707	2-V/G 1-Liter/P	MW	X	X	X	X	11/18/96 9:15		
5	SRKDW-111896-960707	2-V/G 1-Liter/P	DW	X	X	X	X	11/18/96 10:40	52A. 2 + MTBE + TOTAL LEAD	
6	PK01-111896-960707	1-V/G	TB	X	X	X	X	11/18/96 10:15	52A. 2 + MTBE	

RECEIVED DEC 02 1996

Signature	Attribution	Date	Time	Transfers Relinquished By	Transfers Accepted By	Date	Time
<i>[Signature]</i>		11/18/96	12:15	<i>[Signature]</i>	<i>[Signature]</i>	11/18/96	9:00
				<i>[Signature]</i>	<i>[Signature]</i>	11/18/96	8:15

ADDITIONAL COMMENTS:  
 1 trip blank / duplicate  
 the lab samples have not been filtered

RECEIVED FEB 18 1997

ALPHA ANALYTICAL LABORATORIES

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

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

CERTIFICATE OF ANALYSIS

Client: ERD Environmental, Inc.	Laboratory Job Number: L9700878
Address: 205 Main Street PO Box 1760 Brattleboro, VT 05302	Invoice Number: 2017
Attn: Kim Mitchell	Date Received: 05-FEB-97
Project Number: 960707	Date Reported: 12-FEB-97
Site: Redlinger	Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9700878-01	RK-1-2597-960707	Guilford, VT
L9700878-02	RK-2-2597-960707	Guilford, VT
L9700878-03	RK-3-2597-960707	Guilford, VT
L9700878-04	RK-DW-2597-960707	Guilford, VT
L9700878-05	RK-02-2597-960707	Guilford, VT
L9700878-06	RK-01-2597-960707	Guilford, VT

Authorized by: 

Scott McLean - Laboratory Director



ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9700878-01 Date Collected: 05-FEB-97  
 RK-1-2597-960707 Date Received : 05-FEB-97  
 Sample Matrix: WATER Date Reported : 12-FEB-97  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2 Vial, 1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Dissolved Metals					1	3005/3050	
Arsenic, Dissolved	ND	mg/l	0.005	1	6010	06-Feb 10-Feb	GF
Barium, Dissolved	0.07	mg/l	0.01	1	6010	06-Feb 10-Feb	GF
Cadmium, Dissolved	ND	mg/l	0.005	1	6010	06-Feb 10-Feb	GF
Chromium, Dissolved	ND	mg/l	0.01	1	6010	06-Feb 10-Feb	GF
Lead, Dissolved	ND	mg/l	0.01	1	6010	06-Feb 10-Feb	GF
Mercury, Dissolved	ND	mg/l	0.0005	1	7470/7471	11-Feb 12-Feb	DM
Selenium, Dissolved	ND	mg/l	0.010	1	6010	06-Feb 10-Feb	GF
Silver, Dissolved	ND	mg/l	0.007	1	6010	06-Feb 10-Feb	GF

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-01  
 RK-1-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
Volatile Organics by GC/MS				1	8260	07-Feb	DI
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	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.0				
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	2.0	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.				
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.				

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-01  
 RK-1-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued							07-Feb DB
				1	8260		
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	18.	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	1.3	ug/l	1.0				
1,2,4-Trimethylbenzene	8.1	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	100.	%					
Dibromofluoromethane	99.0	%					

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9700878-02 Date Collected: 05-FEB-97  
 RK-2-2597-960707 Date Received : 05-FEB-97  
 Sample Matrix: WATER Date Reported : 12-FEB-97  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2 Vial,1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
Dissolved Metals				1	3005/3050		
Arsenic, Dissolved	ND	mg/l	0.005	1	6010	06-Feb 10-Feb	GF
Barium, Dissolved	0.04	mg/l	0.01	1	6010	06-Feb 10-Feb	GI
Cadmium, Dissolved	ND	mg/l	0.005	1	6010	06-Feb 10-Feb	GI
Chromium, Dissolved	ND	mg/l	0.01	1	6010	06-Feb 10-Feb	GF
Lead, Dissolved	ND	mg/l	0.01	1	6010	06-Feb 10-Feb	GF
Mercury, Dissolved	ND	mg/l	0.0005	1	7470/7471	11-Feb 12-Feb	DI
Selenium, Dissolved	ND	mg/l	0.010	1	6010	06-Feb 10-Feb	GI
Silver, Dissolved	ND	mg/l	0.007	1	6010	06-Feb 10-Feb	GF

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-02  
 RK-2-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1 8260	07-Feb	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	2.0			
Chloroethane	ND	ug/l	2.0			
1,1-Dichloroethene	ND	ug/l	1.0			
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.			
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.			

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-02  
 RK-2-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
Volatile Organics by GC/MS continued				1	8260	07-Feb	DE
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	100.	%					
Dibromofluoromethane	97.0	%					

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9700878-03 Date Collected: 05-FEB-97  
 RK-3-2597-960707 Date Received : 05-FEB-97  
 Sample Matrix: WATER Date Reported : 12-FEB-97  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2 Vial,1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Dissolved Metals				1	3005/3050		
Arsenic, Dissolved	ND	mg/l	0.005	1	6010	06-Feb 10-Feb	GF
Barium, Dissolved	0.09	mg/l	0.01	1	6010	06-Feb 10-Feb	GF
Cadmium, Dissolved	ND	mg/l	0.005	1	6010	06-Feb 10-Feb	GF
Chromium, Dissolved	ND	mg/l	0.01	1	6010	06-Feb 10-Feb	GF
Lead, Dissolved	ND	mg/l	0.01	1	6010	06-Feb 10-Feb	GF
Mercury, Dissolved	ND	mg/l	0.0005	1	7470/7471	11-Feb 12-Feb	DM
Selenium, Dissolved	ND	mg/l	0.010	1	6010	06-Feb 10-Feb	GF
Silver, Dissolved	ND	mg/l	0.007	1	6010	06-Feb 10-Feb	GF

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

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-03  
RK-3-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	IE
							PREP ANALYSIS
Volatile Organics by GC/MS				1	8260	07-Feb	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	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.0				
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.				
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.				

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-03  
 RK-3-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1 8260	07-Feb	DB
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	101.	%				
4-Bromofluorobenzene	97.0	%				
Dibromofluoromethane	98.0	%				

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9700878-04 Date Collected: 05-FEB-97  
 RK-DW-2597-960707 Date Received : 05-FEB-97  
 Sample Matrix: WATER Date Reported : 12-FEB-97  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2 Vial,1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
Dissolved Metals				1	3005/3050		
Arsenic, Dissolved	ND	mg/l	0.005	1	6010	10-Feb	GF
Barium, Dissolved	ND	mg/l	0.01	1	6010	10-Feb	GF
Cadmium, Dissolved	ND	mg/l	0.005	1	6010	10-Feb	GI
Chromium, Dissolved	ND	mg/l	0.01	1	6010	10-Feb	GF
Lead, Dissolved	ND	mg/l	0.002	1	7421	06-Feb	GF
Mercury, Dissolved	ND	mg/l	0.0005	1	7470/7471	11-Feb 12-Feb	DM
Selenium, Dissolved	ND	mg/l	0.005	1	7740	07-Feb	GI
Silver, Dissolved	ND	mg/l	0.01	1	6010	10-Feb	GF

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-04  
 RK-DW-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				14	524.2	10-Feb	DB
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
Xylenes	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-04  
 RK-DW-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
Volatile Organics by GC/MS continued				14	524.2	10-Feb	DE
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
SURROGATE RECOVERY							
1,2-Dichlorobenzene-d4	82.0	%					
4-Bromofluorobenzene	93.0	%					

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9700878-05 Date Collected: 05-FEB-97  
 RK-02-2597-960707 Date Received : 05-FEB-97  
 Sample Matrix: WATER Date Reported : 12-FEB-97  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2 Vial,1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Dissolved Metals				1	3005/3050		
Arsenic, Dissolved	ND	mg/l	0.005	1	6010	06-Feb 10-Feb	GF
Barium, Dissolved	0.06	mg/l	0.01	1	6010	06-Feb 10-Feb	GF
Cadmium, Dissolved	ND	mg/l	0.005	1	6010	06-Feb 10-Feb	GF
Chromium, Dissolved	ND	mg/l	0.01	1	6010	06-Feb 10-Feb	GF
Lead, Dissolved	ND	mg/l	0.01	1	6010	06-Feb 10-Feb	GF
Mercury, Dissolved	ND	mg/l	0.0005	1	7470/7471	11-Feb 12-Feb	DM
Selenium, Dissolved	ND	mg/l	0.010	1	6010	06-Feb 10-Feb	GF
Silver, Dissolved	ND	mg/l	0.007	1	6010	06-Feb 10-Feb	GF

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-05  
 RK-02-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
Volatile Organics by GC/MS				1	8260	07-Feb	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.				
Tetrachloroethane	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	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.0				
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.				
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.				

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-05  
 RK-02-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	07-Feb	DB
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	14.	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	1.0	ug/l	1.0				
1,2,4-Trimethylbenzene	6.4	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	98.0	%					
Dibromofluoromethane	100.	%					

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9700878-06 Date Collected: 05-FEB-97  
 RK-01-2597-960707 Date Received : 05-FEB-97  
 Sample Matrix: WATER Date Reported : 12-FEB-97  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
Volatile Organics by GC/MS				14	524.2	10-Feb	DE
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
Xylenes	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-06  
 RK-01-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				14	524.2	10-Feb	DB
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
SURROGATE RECOVERY							
1,2-Dichlorobenzene-d4	89.0	%					
4-Bromofluorobenzene	90.0	%					

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-06  
 RK-01-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
Volatile Organics by GC/MS				1	8260	08-Feb	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	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.0				
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.				
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.				

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

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

RECEIVED FEB 18 1997

Laboratory Sample Number: L9700878-06  
 RK-01-2597-960707

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	08-Feb	DB
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	97.0	%					
Dibromofluoromethane	99.0	%					

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

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

RECEIVED FEB 18 1997

Laboratory Job Number: L9700878

Parameter	Value 1	Value 2	RPD	Units
<b>Dissolved Metals</b> DUPLICATE for sample(s) 01-03,05				
Arsenic, Dissolved	ND	ND	NC	mg/l
Barium, Dissolved	0.07	0.07	0	mg/l
Cadmium, Dissolved	ND	ND	NC	mg/l
Chromium, Dissolved	ND	ND	NC	mg/l
Lead, Dissolved	ND	ND	NC	mg/l
Selenium, Dissolved	ND	ND	NC	mg/l
Silver, Dissolved	ND	ND	NC	mg/l
<b>Dissolved Metals</b> DUPLICATE for sample(s) 04				
Arsenic, Dissolved	ND	ND	NC	mg/l
Barium, Dissolved	ND	ND	NC	mg/l
Cadmium, Dissolved	ND	ND	NC	mg/l
Chromium, Dissolved	ND	ND	NC	mg/l
Silver, Dissolved	ND	ND	NC	mg/l
<b>Dissolved Metals</b> DUPLICATE for sample(s) 01-03,05				
Mercury, Dissolved	ND	ND	NC	mg/l
<b>Dissolved Metals</b> DUPLICATE for sample(s) 04				
Lead, Dissolved	ND	ND	NC	mg/l
Selenium, Dissolved	ND	ND	NC	mg/l

RECEIVED FEB 18 1997

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9700878

Parameter	% Recovery
<b>Dissolved Metals SPIKE for sample(s) 01-03,05</b>	
Arsenic, Dissolved	100
Barium, Dissolved	97
Cadmium, Dissolved	94
Chromium, Dissolved	100
Lead, Dissolved	102
Selenium, Dissolved	90
Silver, Dissolved	92
<b>Dissolved Metals SPIKE for sample(s) 04</b>	
Arsenic, Dissolved	104
Barium, Dissolved	102
Cadmium, Dissolved	102
Chromium, Dissolved	102
Silver, Dissolved	96
<b>Dissolved Metals SPIKE for sample(s) 01-03,05</b>	
Mercury, Dissolved	118
<b>Dissolved Metals SPIKE for sample(s) 04</b>	
Mercury, Dissolved	89
<b>Dissolved Metals SPIKE for sample(s) 04</b>	
Lead, Dissolved	92
Selenium, Dissolved	100

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

RECEIVED FEB 18 1997

Laboratory Job Number: L9700878

Parameter	MS %	MSD %	RPD
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Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 04,06

1,1-Dichloroethene	96	107	11
Trichloroethene	101	107	6
Benzene	101	108	7
Toluene	100	100	0
Chlorobenzene	99	107	8

Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 01-03,05-06

1,1-Dichloroethene	88	93	6
Trichloroethene	80	88	10
Benzene	88	96	9
Toluene	82	92	11
Chlorobenzene	82	93	13

RECEIVED FEB 18 1997

ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I

REFERENCES

- 1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.
- 14. Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. Available from USEPA, Cincinnati, 26 West Martin Luther King Drive, Cincinnati, Ohio, 45268.

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.

2017

**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. 72553  
Sheet 1 of 1

Company Name:  
EAD ENVIRONMENTAL, INC.  
205 MAIN STREET  
BRATTLEBORO, VT 05301

Project Number: 960707  
P.O. Number:  
Phone Number: 1-802-259-3677  
FAX N.:

Project Name/Location:  
REDWINGERS  
GUILFORD, VT  
Project Manager:  
KIM MITCHELL

Date Received in Lab: 2/5  
Date Due: 2/12  
Alpha Job Number: (Lab use only)  
9700878

Lab # (Lab Use Only)	Sample I.D.	Containers (number/type)	Matrix/Source	Method Preserve. (number of containers)					Solutes - Tm	Sampling Date	Time	Analysis Requested	MATRIX / SOURCE CODES MW = Monitoring Well RO = Runoff O = Outfall W = Well LF = Landfill L = Lake/Pond/Ocean I = Influent E = Effluent DW = Drinking Water R = River Stream S = Soil SG = Sludge B = Bottom Sediment X1 = Other. X2 = Other.
				Unpres.	Nitric	Sulfuric	HCl	Other					
878.1	RK-1-2597-960707	(2)(1/P)	MU	X		X	X		2/5	11:25	8260 + DISSOLVED RCLAS Metals Filters at Lab		
.2	RK-2-2597-960707	(2)(1/P)	MU	X		X	X		2/5	10:48	8260 + "	"	
3	RK-3-2597-960707	(2)(1/P)	MU	X		X	X		2/5	10:20	8260 + "	"	
4	RK-DW-2597-960707	(2)(1/P)	DW	X		X	X		2/5	9:40	524.2 + "	"	
5	RK-02-2597-960707	(2)(1/P)	MU	X		X	X		2/5	11:26	8260 + "	"	
6	RK-01-2597-960707	(2)(1/P)	MU	X		X	X		2/5	9:30	8260 + 524.2	M/C	
<del>7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50</del>													
TOTAL 12 VOLS 5 LITERS													
Transfers Relinquished By: [Signature] Transfers Accepted By: [Signature] Date: 2/5/97 Time: 1:00													
Additional Comments: 1 Trip Blank 1 Duplicate													