

**REPORT ON THE INVESTIGATION OF SUSPECTED
SUBSURFACE PETROLEUM CONTAMINATION**

FEBRUARY 11, 1994

Site Location:

**SHELDON MINI-MART
ROUTE 105
SHELDON SPRINGS, VERMONT 05485
(VT DEC Site #93-1484)**

Prepared For:

**HOMER & RUTH DURKEE
P.O. BOX 425
SHELDON SPRINGS, VERMONT 05485**

Prepared By:

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MAR 02 1994



Eric
Sandblom
W.S. permit

March 1, 1994

Mr. Chuck Schwer
Vermont ANR/DEC
Hazardous Materials Management Division
103 South Main Street/West Building
Waterbury, Vermont 05671-0404

RE: Investigation at Sheldon Mini-Mart in Sheldon Springs, Vermont (VT DEC
Site #93-1484)

Dear Mr. Schwer:

Please find enclosed the Report on the Investigation of Suspected Subsurface Contamination at the above referenced site prepared for Mr. and Mrs. Homer Durkee. I can be reached by phone if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric C. Sandblom", written over a horizontal line.

Erik C. Sandblom
Engineer

Enclosure

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I. INTRODUCTION

The following report details the investigation of suspected subsurface petroleum contamination at the Sheldon Mini-Mart facility located off of Route 105 in Sheldon Springs, Vermont. This investigation has been conducted by Griffin International, Inc. (Griffin) for Mr. and Mrs. Homer Durkee, owners of the Sheldon Mini-Mart. The State of Vermont Department of Environmental Conservation (DEC) requested that this investigation be conducted to determine the degree and extent of the contamination that was first detected during the repair of an underground public water line located along Route 105, outside of the Mini-Mart, in October of 1993. The request was made in their letter to Mr. and Mrs. Durkee dated November 2, 1993. The work presented here has been conducted in accordance with the Griffin Work Plan dated November, 1993 and approved by the DEC on December 6, 1993.

II. SITE BACKGROUND

A. Site History

On October 10, 1993, the existing two inch PVC water pipe servicing Sheldon Mini-Mart and five residences located on Sweet Hollow Road, broke in front of the Sheldon Mini-Mart. The rupture is believed to have been caused by the failure of a rubber gasket in the pipe. During the repair operations for the water line, a heavy petroleum sheen was observed on the water in the excavation. Some of the water from the excavation entered the water pipe when the water in the line was turned off and the repair operations were taking place.

After repair of the water line was completed, this extension of the Sheldon Springs water distribution system was flushed out with water and levels of contamination for this water supply have decreased, according to water analysis results collected by the DEC. However, low levels of contamination continue to exist in the water of the Mini-Mart and the residences on Sweet Hollow Road that are serviced by the Sheldon Springs Water System. These levels are below EPA Maximum Contaminant Levels. No contamination had been detected in the water of the Sheldon Mini-Mart or the residences on Sweet Hollow Road before the water supply was turned off to repair the leak. As a result of the continued presence of petroleum contamination in the water to residences, the Vermont DEC Water Supply and Hazardous Materials Management Divisions have requested that this water supply line be relocated away from the underground gasoline storage system at Sheldon Mini-Mart. In the meantime, all residences are currently receiving bottled water for consumption.

The most likely source of the contamination discovered during the water line repair is from a leak that was discovered at a coupling underneath one of the dispenser pumps of the underground gasoline storage tank (UST) system at Sheldon Mini-Mart. This leak was discovered and repaired on October 12, 1993. After the detection of contaminated soils in the vicinity of the water line, Mr. and Mrs. Durkee retained the services of Griffin to perform an investigation at the site to determine the extent and degree of petroleum contamination in the subsurface. This report details the investigation.

B. Site Description

Sheldon Mini-Mart is located in a rural neighborhood on the south side of Route 105 in Sheldon Springs, Vermont. According to a surficial geologic map of Vermont, the site is located in an area of marine sand and clay deposits. The Missisquoi River is located approximately 1500 feet north of the site.

There is one building located on site which is used to house the Mini-Mart and a child care center. It is supplied with town water from the Sheldon Springs supply well (WSID #5128) located approximately 3/8 mile southeast of the Mini-Mart. All businesses and residences in the vicinity are serviced by the town water except for one house located approximately 300 feet to the east of the Mini-Mart on the opposite side of Route 105, which receives its water from a spring located in the basement of the building.

Currently there are three USTs at the site. All were installed in 1983 and all are used to contain gasoline. Two of the tanks have a capacity of 4000 gallons and the third is of 6000 gallon capacity. The tanks and piping system have had no history of leaking prior to the discovery of the leaking pipe at the dispenser in October, 1993.

III. INVESTIGATIVE PROCEDURES

A. Monitoring Well Installation

On December 23, 1993, three groundwater monitoring wells (MW-1, MW-2, and MW-3) were installed to determine the extent of subsurface contamination at the Sheldon Mini-Mart. The locations of these wells are displayed on the site map in Appendix B. The wells were installed by Green Mountain Boring of Barre, Vermont with the use of a 4.25 inch hollow stem auger drill under the direct supervision of a Griffin hydrogeologist. The soils from each boring were classified and screened with an HNu HW-101 photoionization device (PID) for the presence of volatile organic compounds (VOC) at varying depths. Each well was constructed with ten feet of screened two inch diameter PVC pipe with a slot size of 0.010 inch, positioned approximately five feet above the water table and five feet below the water table. The wells were completed with a two inch diameter PVC riser to just below the ground surface. The annulus between the well screen and the borehole was filled in with silica sand to approximately two feet above the well screen where it was sealed with a two foot thick bentonite clay plug. The remainder of the annulus was filled in with native material from the boring. A water-tight cap was placed at the top of each well and a manhole cover installed for protection. All wells were installed in accordance to Griffin protocols which comply with state and industry standards.

MW-1 is located 7.5 feet west of the pump island and drilled to a depth of thirteen feet below grade. The soils in this location consisted primarily of fine to medium sand that increased in moisture beginning at three to four feet below grade. Soils from grade to over seven feet below the surface, the approximate water table depth, were saturated with gasoline and exhibited very

strong gasoline odors. PID screening results revealed VOC concentrations in the soils from 22 parts per million (ppm) at ten to twelve feet below grade to 280 ppm at five to seven feet.

MW-2 is located to the east of the pump island in the general vicinity of the USTs. The water table in this well was at a depth of approximately seven feet below grade at the time of well installation. The well extends to 13 feet below the surface. Soils encountered were primarily brown fine to medium sand. VOC concentrations were non-detect at one to two feet, 100 ppm at five to seven feet, and 25 ppm at seven to nine feet as measured with a PID.

The location of MW-3 is in the grass due west of MW-1, almost directly in line with MW-1 and MW-2. The location of the well was influenced by numerous underground and overhead utilities located at the site and the desire to obtain data in the assumed direction of groundwater flow from the site, which is generally to the northwest. The boring for MW-3 was extended to a depth of twelve feet below the surface and water was encountered at approximately five feet. Soils consisted of fine to medium sand. PID readings were non-detect throughout the boring.

B. Groundwater Sampling and Analysis

On December 29, 1993, approximately one week after well installation, samples of the groundwater were collected from all three monitoring wells. All samples were analyzed for BTEX (benzene, toluene, ethylbenzene, and xylenes) and MTBE (methyl tert butyl ether), common constituents found in petroleum products, per EPA Method 602. Results of the laboratory analysis for those wells sampled on this date are summarized in Appendix C.

According to the results of the laboratory analyses, all of the samples collected from the wells contain contaminants in concentrations that are above the Vermont Drinking Water Standards. At the time of sampling, a petroleum sheen was observed floating on the surface of water removed from MW-1 and MW-2. The high concentrations observed in MW-1, near the pump island, and the relatively low concentrations in the other two wells indicate that the source of contamination is at the pumps. Also, the low concentrations detected in the sample collected from MW-3 indicates that the extent of the contamination plume is limited.

All samples were collected according to Griffin's groundwater sampling protocol which complies with industry and state standards. Results from the analyses of the duplicate, trip blank and equipment blank samples indicate that adequate quality assurance and control (QA/QC) were maintained during sample collection and analyses.

C. Determination of Groundwater Flow

Just before water sample collection, groundwater elevation data was collected from the three on-site monitoring wells. For each well the depth to water and approximate total well depth were measured in feet with the use of a Keck interface probe. The water table elevations were determined relative to sea level. Monitoring well casing elevations were provided by Steven M. Brooks, Vermont registered land surveyor. From this data, the groundwater contours were

interpolated onto the site map and the groundwater direction and gradient estimated. From the water level measurements summarized in Appendix D and the groundwater contour map displayed in Appendix B, the calculated groundwater flow for December 29, 1993 is estimated to be to the north at a gradient of approximately 26.7%. Due to the configuration of the monitoring wells, however, it is difficult to obtain an accurate indication of the groundwater flow. Using knowledge of the area topography and soil conditions in conjunction with the groundwater level data, it is likely that the groundwater at the site flows approximately to the north or north northeast. The seemingly steep gradient of the water table is likely due to the varied sand and clay deposits in that region.

E. Sensitive Receptor Assessment

During site visits, research was conducted in order to determine what potential receptors in the area may be at risk from petroleum contamination in the subsurface. A visual inspection of the area was conducted. The results of the inspection identified only the Sheldon Mini-Mart building and a home located approximately 300 feet to the west along Route 105 as potentially at risk from the contamination. Interviews with local residents indicated the existence of a shallow well located in the basement of the home. The detected presence of contaminants in the water sample collected from MW-3, the monitoring well located on the western edge of the site, indicates that the shallow well may be at risk of impact by petroleum contaminants in the ground. However, it is difficult to determine the severity of the risk to the supply well, if any, as the behavior of the groundwater flow cannot be determined exactly.

The water supply line that services the Mini-Mart and five houses located on Sweet Hollow Road is located along the south side of Route 105, in front of the Sheldon Mini-Mart, approximately 25 feet from the gasoline dispensers. This is the area of most concentrated contamination, according to the groundwater sampling results. This water line was discovered to contain petroleum contamination after repair operations on the pipe that took place in October of 1993. Since then, low levels of petroleum contamination continue to exist in the water from that line (sample results are located in Appendix F). It is not known if the water line is in some way damaged, allowing the contaminants to enter the pipe, or if the PVC construction is allowing some constituents of gasoline to permeate through the wall of the pipe. The American Water Works Association (AWWA) contends that solvents and some petroleum products may be permeable to PVC (ANSI/AWWA C900-89, Sec 2.5). In order to remedy this situation, work is currently being conducted to relocate the water line from a different water main extension on School Street, to the homes on Sweet Hollow Road and the Mini-Mart through property located behind the Mini-Mart building. This location will distance the new pipe at least 460 feet upgradient of groundwater flow from the apparent source of the contamination.

The Missisquoi River is located approximately one quarter mile to the north of the site. Due to the relatively large distance the river is from the site and the levels of contamination detected in groundwater samples, it is not likely to be a potential receptor of petroleum contamination present at Sheldon Mini-Mart.

The Sheldon Mini Mart is the only building in the area of the site that appears to be at risk of vapor impact as a result of the on-site contamination. All other buildings are located at such a proximity from the source of contamination that it is unlikely that the level of contamination detected could impact other buildings. The Sheldon Mini-Mart does not appear to be impacted by petroleum vapors based on multiple screening in the building for VOCs with a PID and because the building is built on a concrete slab.

IV. TANK PRECISION TESTING

On December 21, 1994, NDE Environmental Corporation of Torrance, California performed a "Sure Test" pressure test of the USTs and associated piping at Sheldon Mini-Mart. The results of the test indicate a passing result for all three tanks and piping. The results of the test are included in Appendix G of this report. The passing result for the systems are further indication that the release of gasoline into the ground is most likely the result of the coupling leak at the dispenser which had been repaired more than two months before conducting the pressure test on the UST system.

V. CONCLUSIONS

Based on the data collected from Sheldon Mini-Mart and surrounding areas from the period of October 14, 1993 to January 26, 1994, the following conclusions can be made.

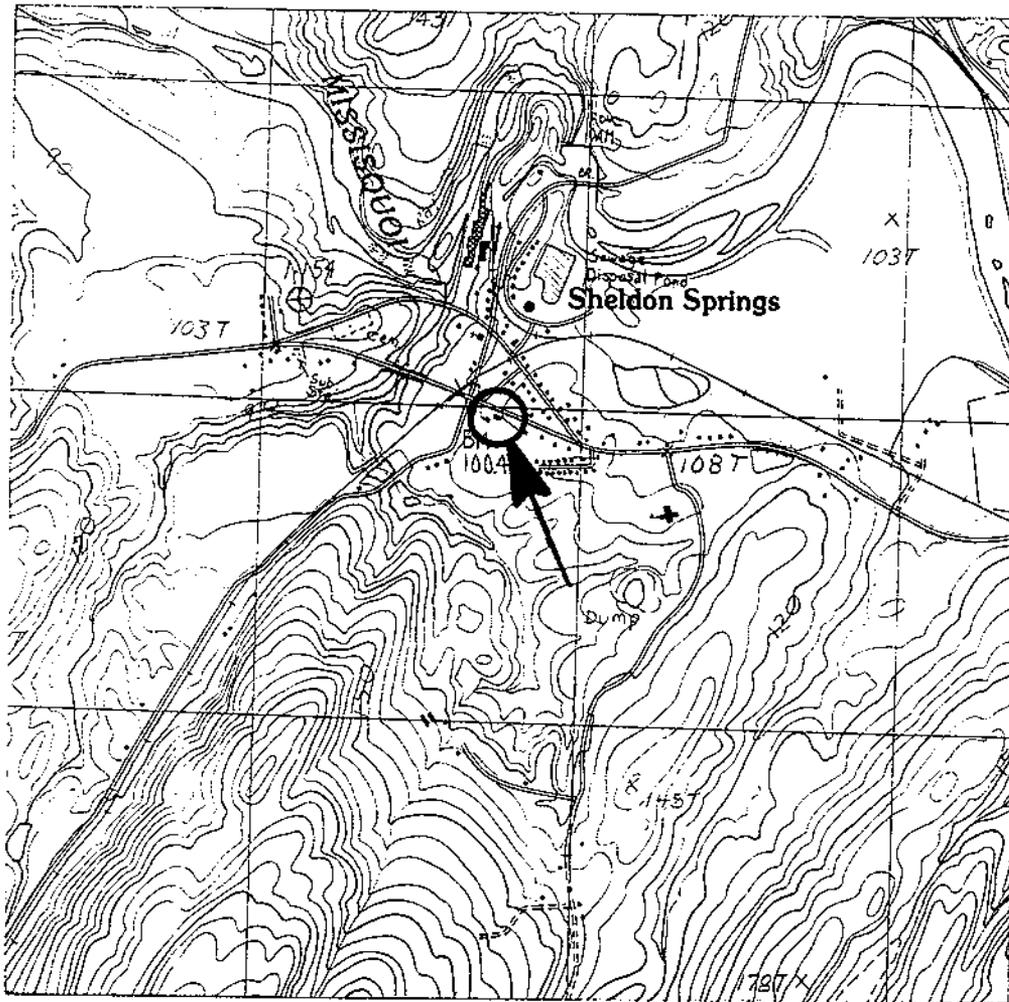
- 1) Petroleum contamination exists underground at the Sheldon Mini-Mart in Sheldon Springs, Vermont, both in the adsorbed (soil) and dissolved (groundwater) phases. The contamination is most likely residual contamination from a gasoline leak at one of the dispensers of the UST system, which has now been repaired. The amount and duration of the release are unknown. There does not appear to be an active leak at the site now.
- 2) The extent of the contamination appears to be limited based on relatively low concentrations of contaminants detected in the samples collected from MW-2 and MW-3.
- 3) Potential receptors of impact from the petroleum contamination at the Mini-Mart include the shallow supply well located in the basement of a house approximately 300 feet west of the site and the water supply pipe servicing the Mini-Mart and five residences on Sweet Hollow Road. Risk to the supply well appears to be low due to the limited extent of contamination. The Missisquoi River does not appear to be at risk of impact.
- 4) Based on water sample analysis results, petroleum contamination exists in the water servicing the Mini-Mart and four houses, supplied by the Sheldon Springs Water System, at levels that are below EPA Maximum Contaminant Levels. The Mini-Mart and residences are currently receiving bottled water and work is being conducted to replace the current water pipe. This should eliminate the continued contamination to the water supply.
- 5) Because the source of the contamination has been eliminated, over time, natural processes of dilution, dispersion, and biodegradation will act to reduce the contamination concentration to below detection limits.

VI. RECOMMENDATIONS

Based on the above conclusions, Griffin recommends the following action concerning petroleum contamination at Sheldon Mini-Mart in Sheldon Springs, Vermont.

- 1) In order to document the expected decrease of petroleum contamination at the site, groundwater samples from the three on-site monitoring wells should be sampled for laboratory analysis on a quarterly basis for a period of one year. The samples should be analyzed for BTEX and MTBE per EPA Method 602.
- 2) The shallow supply well in the house to the west of the site should be sampled and analyzed for VOCs per EPA Method 524.2 immediately to determine whether it is being impacted by gasoline contamination from Sheldon Mini-Mart.
- 3) Plans to replace the public water supply pipe in a different location should be implemented in the Spring of 1994 after the ground thaws.
- 4) Water samples should be collected for laboratory analysis from the Mini-Mart water supply and the four inhabited residences that receive water from the Town of Sheldon on a monthly basis until the water line is replaced. One additional round of samples should be collected after the new water line is installed. The samples should be analyzed for VOCs per EPA Method 524.2.

APPENDIX A
SITE LOCATION MAP



JOB #: 11934456
 SOURCE: USGS, SHELDON SPRINGS QUADRANGLE



SHELDON MINI MART

SHELDON SPRINGS, VERMONT

SITE LOCATION MAP

DATE: 1/5/94

DWG.#1

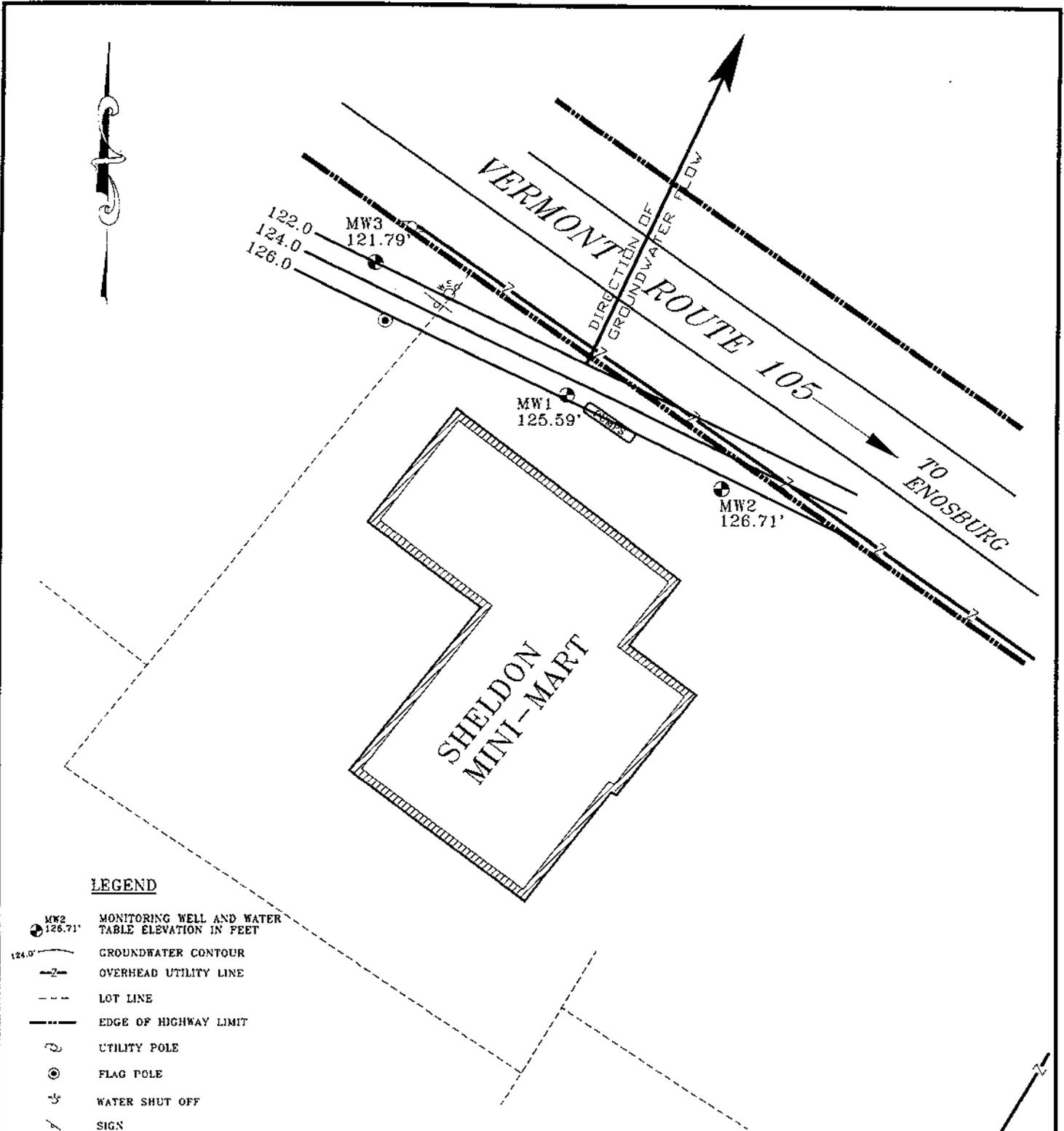
SCALE: 1:24000

DRN: SB

APP. KM

APPENDIX B

SITE MAPS



LEGEND

- MW2 126.71' MONITORING WELL AND WATER TABLE ELEVATION IN FEET
- 124.0' GROUNDWATER CONTOUR
- OVERHEAD UTILITY LINE
- LOT LINE
- EDGE OF HIGHWAY LIMIT
- UTILITY POLE
- FLAG POLE
- WATER SHUT OFF
- SIGN

DATE MEASURED: 12/29/93

SITE PLAN TAKEN FROM SURVEY PLAN DRAWN BY BROOKS LAND SURVEYING INC., DATED 1/12/94

JOB #: 11934456



SHELDON MINI MART

SHELDON SPRINGS,

VERMONT

GROUNDWATER CONTOUR MAP

DATE: 1/5/94

DWG.#: 3

SCALE: 1"=50'

DRN.: SB

APP.: ES

APPENDIX C

GROUNDWATER QUALITY SUMMARY DATA

1/27/94

**Groundwater Quality Summary
Sheldon Mini-Mart
Sheldon Springs, Vermont**

Monitoring Well 1

PARAMETER	Date of Sample Collection			Vermont Drinking Water Standards
	12/29/93			
Benzene	5,820.			5.0*
Chlorobenzene	ND			100*
1,2-DCB	ND			600*
1,3-DCB	ND			600**
1,4-DCB	ND			75*
Ethylbenzene	1,400.			700*
Toluene	19,500.			1000*
Xylenes	10,300.			10000*
Total BTEX	37,020.			-
MTBE	ND			40**
BTEX+MTBE	37,020.			-

Monitoring Well 2

PARAMETER	Date of Sample Collection			Vermont Drinking Water Standards
	12/29/93			
Benzene	6.1			5.0*
Chlorobenzene	ND			100*
1,2-DCB	ND			600*
1,3-DCB	ND			600**
1,4-DCB	ND			75*
Ethylbenzene	ND			700*
Toluene	5.1			1000*
Xylenes	ND			10000*
Total BTEX	11.2			-
MTBE	ND			40**
BTEX+MTBE	11.2			-

Monitoring Well 3

PARAMETER	Date of Sample Collection			Vermont Drinking Water Standards
	12/29/93			
Benzene	53.8			5.0*
Chlorobenzene	ND			100*
1,2-DCB	ND			600*
1,3-DCB	ND			600**
1,4-DCB	ND			75*
Ethylbenzene	3.6			700*
Toluene	3.4			1000*
Xylenes	TBQ			10000*
Total BTEX	60.8			-
MTBE	249.0			40**
BTEX+MTBE	309.8			-

All values reported in ug/L (ppb)

ND - None Detected

TBQ - Trace below quantitation Limits

* - EPA Established Maximum Contaminant Level

** - Vermont Health Advisory Level

1/27/94

**Groundwater Quality Summary
Sheldon Mini-Mart
Sheldon Springs, Vermont**

**Vermont Drinking Water Standards and
Quality Assurance and Control Samples**

Sample Date: December 29, 1993

PARAMETER	Equipment Blank	Trip Blank	Duplicate (MW1)	Vermont Drinking Water Standards
Benzene	ND	ND	5,340.	5.0*
Chlorobenzene	ND	ND	ND	100*
1,2-DCB	ND	ND	ND	600*
1,3-DCB	ND	ND	ND	600**
1,4-DCB	ND	ND	ND	75*
Ethylbenzene	ND	ND	ND	700*
Toluene	ND	ND	1,220.	1000*
Xylenes	ND	ND	17,800.	10000*
Total BTEX	ND	ND	24,360.	
MTBE	ND	ND	9,150.	40**
BTEX+MTBE	ND	ND	33,510.	

ND - None Detected

All Values Reported in ug/L (ppb)

TBQ - Trace Below Quantitation Limits

APPENDIX D
GROUNDWATER LEVEL DATA

1/27/94

**Liquid Level Monitoring Data
Sheldon Mini-Mart
Sheldon Springs, Vermont**

**Monitoring Date:
December 29, 1993**

Well I.D.	Well Depth	Top of Casing Elevation	Depth to Product	Depth to Water	Product Thickness	Specific Gravity of Product	Hydro Equivalent	Corrected Depth to Water	Corrected Water Table Elevation
MW-1	13.0	132.42	-	6.83	-	-	-	6.83	125.59
MW-2	13.0	133.15	-	6.44	-	-	-	6.44	126.71
MW-3	12.0	127.50	-	5.71	-	-	-	5.71	121.79

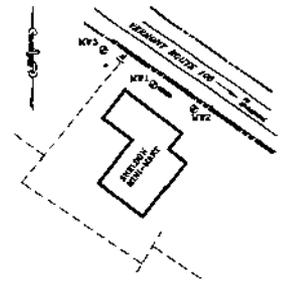
Notes: All values reported in feet.
Petroleum sheen observed in MW-1 and MW-2

APPENDIX E
MONITORING WELL LOGS

PROJECT SHELDON MINI MART
 LOCATION SHELDON, VERMONT
 DATE DRILLED 12/23/93 TOTAL DEPTH OF HOLE 13'
 DIAMETER 4.25"
 SCREEN DIA. 2" LENGTH 10' SLOT SIZE 0.010"
 CASING DIA. 2" LENGTH 2.5' TYPE SCH. 40 PVC
 DRILLING CO. GMB DRILLING METHOD HSA
 DRILLER M. McGINLEY LOG BY K. MCGRAW

WELL NUMBER MW1

Site Sketch

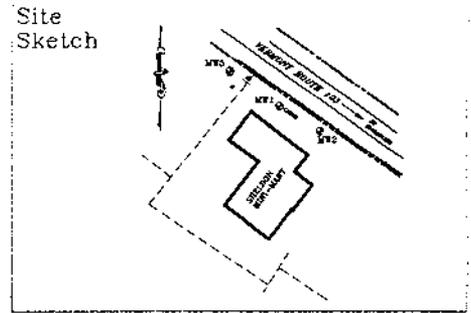


GRIFFIN INTERNATIONAL, INC.

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0	ROAD BOX	LOCKING WELL CAP		Pavement	0
1	CONCRETE		0'-0.3'	Gray fine to medium SAND, some gravel, moderate odor, dry	1
2	BENTONITE		0.3'-1'		2
3	WELL RISER				3
4					4
5	SAND PACK				5
6			5'-7'- 7,11,10,15	Light brown fine to medium SAND, very moist (capillary fringe), strong odor	6
7			280 ppm	7.0' WATER TABLE	7
8	WELL SCREEN				8
9					9
10					10
11			10'-12'- 5,5,10,11	Light brown fine SAND, trace gravel, slight odor, saturated	11
12	BOTTOM CAP		22 ppm		12
13	UNDISTURBED NATIVE SOIL			BASE OF WELL AT 13'	13
14				END OF EXPLORATION AT 13'	14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT SHELDON MINI MART
 LOCATION SHELDON, VERMONT
 DATE DRILLED 12/23/93 TOTAL DEPTH OF HOLE 13'
 DIAMETER 4.25"
 SCREEN DIA. 2" LENGTH 10' SLOT SIZE 0.010"
 CASING DIA. 2" LENGTH 2.5' TYPE SCH. 40 PVC
 DRILLING CO. GMB DRILLING METHOD HSA
 DRILLER M. McGINLEY LOG BY K. MCGRAW

WELL NUMBER MW2

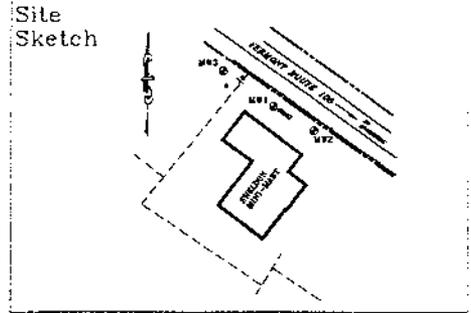


GRIFFIN INTERNATIONAL, INC.

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0		ROAD BOX			0
0		LOCKING WELL CAP		Pavement	0
1		CONCRETE	0'-0.3'		1
1		BENTONITE	0.3'-1'	Brown fine SAND, dry, no odor	1
2			0 ppm		2
3		WELL RISER			3
4					4
5					5
6			5'-7'- 5,7,9,13	Brown fine to medium SAND, very moist at tip, some odor	6
7		SAND PACK	100 ppm	7.0' WATER TABLE	7
8			7'-9'	Brown fine to medium SAND, saturated, some odor	8
9		WELL SCREEN	25 ppm		9
10					10
11					11
12		BOTTOM CAP			12
13		UNDISTURBED NATIVE SOIL		BASE OF WELL AT 13'	13
14				END OF EXPLORATION AT 13'	14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT SHELDON MINI MART
 LOCATION SHELDON, VERMONT
 DATE DRILLED 12/23/93 TOTAL DEPTH OF HOLE 13'
 DIAMETER 4.25"
 SCREEN DIA. 2" LENGTH 10' SLOT SIZE 0.010"
 CASING DIA. 2" LENGTH 1.5' TYPE SCH. 40 PVC
 DRILLING CO. GMB DRILLING METHOD HSA
 DRILLER M. McGINLEY LOG BY K. MCGRAW

WELL NUMBER MW3



GRIFFIN INTERNATIONAL, INC.

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0	ROAD BOX LOCKING WELL CAP NATIVE BACKFILL				0
1	BENTONITE		1'-2'	Dark brown fine SAND, damp, no odor	1
2	WELL RISER		0 ppm		2
3					3
4					4
5	SAND PACK			5.0' WATER TABLE	5
6	WELL SCREEN		5'-7'- 7.9,10.9 0 ppm	Fine to medium SAND, some oxidation staining, saturated, no odor	6
7					7
8					8
9			7'-12'	Gray clay with little fine to medium sand	9
10					10
11	BOTTOM CAP				11
12	UNDISTURBED NATIVE SOIL			BASE OF WELL AT 12' END OF EXPLORATION AT 12'	12
13					13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

APPENDIX F

WATER SUPPLY QUALITY SUMMARY DATA

2/7/94

**Water Supply Quality Summary Data
Sheldon Mini-Mart and Sweet Hollow Road
Sheldon Springs, Vermont**

Head Start DayCare / Sheldon Mini-Mart

PARAMETER	Date of Sample Collection		Vermont Drinking Water Standards
	11/30/94	1/26/94	
Benzene	ND	0.6	1.0**, 5.0*
1,3,5-Trimethylbenzene	0.7	ND	4.0**
1,2,4-Trimethylbenzene	0.7	0.9	5.0**
Ethylbenzene	0.6	0.8	700*
Toluene	4.6	7.0	1000*
m+p-Xylene	2.8	4.2	10,000 Total Xylene*
o-Xylene	1.1	1.8	10,000 Total Xylene*
Total BTEX	9.1	14.4	-
MTBE	ND	ND	40**
BTEX+MTBE	9.1	14.4	-

Head Start Mobile Library

PARAMETER	Date of Sample Collection		Vermont Drinking Water Standards
	11/30/93		
Benzene	ND		1.0**, 5.0*
1,3,5-Trimethylbenzene	0.8		4.0**
1,2,4-Trimethylbenzene	0.7	No	5.0**
Ethylbenzene	0.7	Sample	700*
Toluene	5.4	Collected	1000*
m+p-Xylene	3.1		10,000 Total Xylene*
o-Xylene	1.3		10,000 Total Xylene*
Total BTEX	10.5		-
MTBE	ND		40**
BTEX+MTBE	10.5		-

Lowell Residence

PARAMETER	Date of Sample Collection		Vermont Drinking Water Standards
	11/30/93	1/26/94	
Benzene	0.7	1.5	1.0**, 5.0*
1,3,5-Trimethylbenzene	1.0	0.8	4.0**
1,2,4-Trimethylbenzene	ND	2.5	5.0**
Ethylbenzene	1.0	2.2	700*
Toluene	7.7	17.4	1000*
m+p-Xylene	4.3	9.9	10,000 Total Xylene*
o-Xylene	1.8	4.2	10,000 Total Xylene*
Total BTEX	15.5	35.2	-
MTBE	ND	ND	40**
BTEX+MTBE	15.5	35.2	-

All values reported in ug/L (ppb)

ND - None Detected

TBQ - Trace below quantitation Limits

* - EPA Established Maximum Contaminant Level

** - Vermont Health Advisory Level

**Water Supply Quality Summary Data
Sheldon Mini-Mart and Sweet Hollow Road
Sheldon Springs, Vermont**

Trayah Residence

PARAMETER	Date of Sample Collection		Vermont Drinking Water Standards
	11/30/94	2/2/94	
Benzene	1.2		1.0**, 5.0*
1,3,5-Trimethylbenzene	1.8	Data	4.0**
1,2,4-Trimethylbenzene	1.7	Not	5.0**
Ethylbenzene	1.7	Recieved	700*
Toluene	12.7		1000*
m+p-Xylene	7.1		10,000 Total Xylene*
o-Xylene	3.0		10,000 Total Xylene*
Total BTEX	24.5		-
MTBE	ND		40**
BTEX+MTBE	24.5		-

Wells Residence

PARAMETER	Date of Sample Collection		Vermont Drinking Water Standards
	11/30/93	1/26/94	
Benzene	0.7	1.4	1.0**, 5.0*
1,3,5-Trimethylbenzene	1.5	0.7	4.0**
1,2,4-Trimethylbenzene	1.3	2.1	5.0**
Ethylbenzene	1.1	1.9	700*
Toluene	8.1	15.7	1000*
m+p-Xylene	4.9	9.8	10,000 Total Xylene*
o-Xylene	2.1	3.7	10,000 Total Xylene*
Total BTEX	16.2	32.5	-
MTBE	ND	ND	40**
BTEX+MTBE	16.2	32.5	-

Prim and Babbie Residences

PARAMETER	Date of Sample Collection		Vermont Drinking Water Standards
	11/30/93	1/26/94	
Benzene	1.6	2.0	1.0**, 5.0*
Chlorobenzene	ND	ND	4.0**
1,3,5-Trimethylbenzene	2.4	0.9	5.0**
1,2,4-Trimethylbenzene	2.2	2.6	700*
Ethylbenzene	2.3	2.8	1000*
Toluene	16.7	22.6	10,000 Total Xylene*
m+p-Xylene	9.6	12.7	10,000 Total Xylene*
o-Xylene	4.0	5.4	10000*
Total BTEX	34.2	45.5	-
MTBE	ND	ND	40**
BTEX+MTBE	34.2	45.5	-

All values reported in ug/L (ppb)

ND - None Detected

TBQ - Trace below quantitation Limits

* - EPA Established Maximum Contaminant Level

** - Vermont Health Advisory Level

APPENDIX G
UST PRECISION TEST RESULTS

CERTIFICATE OF UNDERGROUND STORAGE TANK SYSTEM TESTING

NDE ENVIRONMENTAL CORPORATION
20000 MARINER AVENUE, SUITE 500
TORRANCE, CALIFORNIA 90503
(310) 542-4342
FAX (310) 542-6657



TEST RESULT SITE SUMMARY REPORT

TEST TYPE: **SURE TEST**

TEST DATE: **December 21, 1993**

WORK ORDER NUMBER: **622042**

INVOICE DATE:

INVOICE NUMBER:

CLIENT: **SHELDON SPRINGS MINI MART
BOX 45
SHELDON SPRINGS, VT 05485**

SITE: **SHELDON SPRINGS MINI MART
BOX 425
SHELDON SPRINGS, VT 05485**

ATTN: **homer**

The following tests were conducted at the site above in accordance with all applicable portions of Federal, NFPA and local regulations.

Tank Tests

TANK NUMBER	PRODUCT	TANK CAPACITY (Gallons)	TANK DIAMETER (Inches)	TANK RESULT	VOLUME CHANGE (gph)	ULLAGE RESULT
1	UNLEADED	6,000	72.00	PASS	0.005	PASS
2	SUPER	4,000	64.00	PASS	0.019	PASS
3	PLUS	4,000	64.00	PASS	0.027	PASS

Line and Leak Detector Tests

TANK NUMBER	PRODUCT	VOLUME CHANGE (gph)	LINE RESULT	LEAK DETECTOR PRESENT	LEAK DETECTOR RESULT
1	UNLEADED	0.015	PASS	NO	
2	SUPER	0.008	PASS	NO	
3	PLUS	0.001	PASS		

NDE appreciates the opportunity to serve you, and looks forward to working with you in the future. Please call any time, day or night, when you need us.

NDE Customer Service Representative:

BOB FAL

Reviewed:

Test conducted by:

MILT CHATTOO

Technician Certification Number:

INDIVIDUAL TANK/LINE/LEAK DETECTOR TEST REPORT



NDE ENVIRONMENTAL CORPORATION

TEST DATE: December 21, 1993

WORK ORDER NUMBER: 622042

CLIENT: SHELDON SPRINGS MINI MART

SITE: SHELDON SPRINGS MINI MART

TANK INFORMATION			
Tank:	1		
Product:	UNLEADED		
Capacity:	6,000	(gal)	
Diameter:	72.00	(in)	
Length:	346	(in)	
Material:	STEEL		
Tank:	NO		Bottom to top fill: 110.5 (in)
Manifolded:	NO		Bottom to grade fill: 115.0 (in)
Vent:	NO		Fill pipe length: 39.0 (in)
V/R:	NO		Fill pipe diameter: 4.0 (in)
COMMENTS			

TANK TEST RESULTS	
Fuel level:	36.50 (in)
Fuel volume:	3,085 (gal)
Water level:	0.00 (in)
Test time:	23:45-05:45
Specific gravity:	0.732
Water table depth:	0.00 (in)
Determined by (method):	survey
Volume change:	0.005 (gal)
RESULT: PASS	
COMMENTS	

LEAK DETECTOR RESULTS		
	New/passed detector	Failed/replaced detector
Make:	<list>	
Model:	<list>	
S/N:		
Calibrated leak:	0.00	
(gph)		
RESULT:		
COMMENTS		

ULLAGE TEST RESULTS	
Test time:	12:50-13:35
Ullage volume:	3,139 (gal)
Ullage pressure:	1.30 (psi)
RESULT: PASS	
COMMENTS	

LINE TEST RESULTS				
Pump type:	SUCTION			
Pump make:	GILBARCO			
LINE	A	B	C	D
Material:	STEEL			
Diameter:	2.0 (in)			
Test pres:	15	0	0	0 (psi)
Vol change:	0.015	0.000	0.000	0.000 (gph)
RESULT: PASS				
COMMENTS				

INDIVIDUAL TANK/LINE/LEAK DETECTOR TEST REPORT



NDE ENVIRONMENTAL CORPORATION

TEST DATE: December 21, 1993

WORK ORDER NUMBER: 622042

CLIENT: SHELDON SPRINGS MINI MART

SITE: SHELDON SPRINGS MINI MART

TANK INFORMATION

Tank:	2		
Product:	SUPER		
Capacity:	4,000	(gal)	
Diameter:	64.00	(in)	Bottom to top fill: 93.5 (in)
Length:	288	(in)	Bottom to grade fill: 30.5 (in)
Material:	STEEL		Fill pipe length: 98.0 (in)
	Tank: NO		Fill pipe diameter: 4.0 (in)
Manifolded	Vent: NO		
	V/R: NO		

COMMENTS

TANK TEST RESULTS

Fuel level:	33.00	(in)
Fuel volume:	2,085	(gal)
Water level:	0.00	(in)
Test time:	23:55-05:55	
Specific gravity:	0.751	
Water table depth:	0.00	(in)
Determined by (method):	Survey	
Volume change:	0.019	(gal)
RESULT:	PASS	

COMMENTS

LEAK DETECTOR RESULTS

	New/passed detector	Failed/replaced detector
Make:	<list>	
Model:	<list>	
S/N:		
Calibrated leak:	0.00	
(gph)		
RESULT:		

COMMENTS

ULLAGE TEST RESULTS

Test time:	12:53-13:40
Ullage volume:	1,393 (gal)
Ullage pressure:	1.30 (psi)
RESULT:	PASS

COMMENTS

LINE TEST RESULTS

Pump type:	SUCTION	Pump make:	GILBARCO	
LINE	A	B	C	D
Material:	STEEL			
Diameter:	2.0			(in)
Test pres:	15	0	0	0 (psi)
Vol change:	0.008	0.000	0.000	0.000 (gph)
RESULT:	PASS			

COMMENTS

INDIVIDUAL TANK/LINE/LEAK DETECTOR TEST REPORT



NDE ENVIRONMENTAL CORPORATION

TEST DATE: **December 21, 1993**

WORK ORDER NUMBER: **622042**

CLIENT: **SHELDON SPRINGS MINI MART**

SITE: **SHELDON SPRINGS MINI MART**

TANK INFORMATION			
Tank:	3		
Product:	PLUS		
Capacity:	4,000	(gal)	
Diameter:	64.00	(in)	
Length:	288	(in)	
Material:	STEEL		
Tank:	NO		
Manifolded Vent:	NO		
V/R:	NO		
Bottom to top fill:	92.5	(in)	
Bottom to grade fill:	96.0	(in)	
Fill pipe length:	29.0	(in)	
Fill pipe diameter:	4.0	(in)	
COMMENTS			

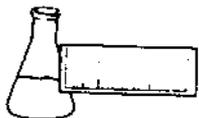
TANK TEST RESULTS	
Fuel level:	39.75 (in)
Fuel volume:	2,617 (gal)
Water level:	0.00 (in)
Test time:	00:10-06:10
Specific gravity:	0.746
Water table depth:	0.00 (in)
Determined by (method):	Survey
Volume change:	0.027 (gal)
RESULT:	PASS
COMMENTS	

LEAK DETECTOR RESULTS		
	New/passed detector	Failed/replaced detector
Make:	<list>	
Model:	<list>	
S/N:		
Calibrated leak:	0.00	
(gph)		
RESULT:		
COMMENTS		

ULLAGE TEST RESULTS	
Test time:	14:55-15:40
Ullage volume:	3,139 (gal)
Ullage pressure:	1.30 (psi)
RESULT:	PASS
COMMENTS	

LINE TEST RESULTS				
Pump type:	SUCTION			
Pump make:	GILBARCO			
LINE	A	B	C	D
Material:	STEEL			
Diameter:	2.0			(in)
Test pres:	15	0	0	0 (psi)
Vol change:	0.001	0.000	0.000	0.000 (gph)
RESULT:	PASS			
COMMENTS				

APPENDIX H
LABORATORY ANALYSIS RESULTS



ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Griffin International
PROJECT NAME: Sheldon Mini-Mart
REPORT DATE: January 7, 1994
DATE SAMPLED: December 29, 1993

PROJECT CODE: GISM1675
REF.#: 55,582 - 55,587

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Chain of custody indicated samples were preserved with HCl.

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times. All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method. Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures



Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Sheldon Mini-Mart
REPORT DATE: January 7, 1994
DATE SAMPLED: December 29, 1993
DATE RECEIVED: December 29, 1993
ANALYSIS DATE: January 5, 1994

PROJECT CODE: GISM1675
REF.#: 55,582
STATION: Trip Blank
TIME SAMPLED: 7:55
SAMPLER: Becca Schuyler

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	ND ¹
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	ND
MTBE	10	ND

Bromobenzene Surrogate Recovery: 117%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected



Laboratory Services

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(802) 879-4333
FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Sheldon Mini-Mart
REPORT DATE: January 7, 1994
DATE SAMPLED: December 29, 1993
DATE RECEIVED: December 29, 1993
ANALYSIS DATE: January 6, 1994

PROJECT CODE: GISM1675
REF.#: 55,584
STATION: MW1
TIME SAMPLED: 10:40
SAMPLER: Becca Schuyler

<u>Parameter</u>	<u>Detection Limit (ug/L)¹</u>	<u>Concentration (ug/L)</u>
Benzene	200	5,820.
Chlorobenzene	200	ND ²
1,2-Dichlorobenzene	200	ND
1,3-Dichlorobenzene	200	ND
1,4-Dichlorobenzene	200	ND
Ethylbenzene	200	1,400.
Toluene	200	19,500.
Xylenes	200	10,300.
MTBE	2000	ND

Bromobenzene Surrogate Recovery: 107%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 7

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at 0.5% dilution.
- 2 None detected



Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Sheldon Mini-Mart
REPORT DATE: January 7, 1994
DATE SAMPLED: December 29, 1993
DATE RECEIVED: December 29, 1993
ANALYSIS DATE: January 5, 1994

PROJECT CODE: GISM1675
REF.#: 55,585
STATION: MW2
TIME SAMPLED: 11:10
SAMPLER: Becca Schuyler

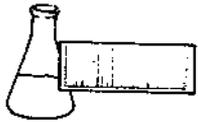
<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	6.1
Chlorobenzene	1	ND ¹
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	5.1
Xylenes	1	ND
MTBE	10	ND

Bromobenzene Surrogate Recovery: 106%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 5

NOTES:

1 None detected



ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Sheldon Mini-Mart
REPORT DATE: January 7, 1994
DATE SAMPLED: December 29, 1993
DATE RECEIVED: December 29, 1993
ANALYSIS DATE: January 5, 1994

PROJECT CODE: GISM1675
REF.#: 55,583
STATION: MW3
TIME SAMPLED: 10:25
SAMPLER: Becca Schuyler

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	53.8
Chlorobenzene	1	ND ¹
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	3.6
Toluene	1	3.4
Xylenes	1	TBQ ²
MTBE	10	249.

Bromobenzene Surrogate Recovery: 112%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

- 1 None detected
- 2 Trace below quantitation limit



Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Sheldon Mini-Mart
REPORT DATE: January 7, 1994
DATE SAMPLED: December 29, 1993
DATE RECEIVED: December 29, 1993
ANALYSIS DATE: January 6, 1994

PROJECT CODE: GISM1675
REF.#: 55,586
STATION: Dup. of MW1
TIME SAMPLED: 10:40
SAMPLER: Becca Schuyler

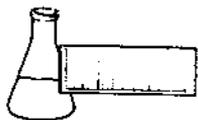
<u>Parameter</u>	<u>Detection Limit (ug/L)¹</u>	<u>Concentration (ug/L)</u>
Benzene	200	5,340.
Chlorobenzene	200	ND ²
1,2-Dichlorobenzene	200	ND
1,3-Dichlorobenzene	200	ND
1,4-Dichlorobenzene	200	ND
Ethylbenzene	200	1,220.
Toluene	200	17,800.
Xylenes	200	9,150.
MTBE	2000	ND

Bromobenzene Surrogate Recovery: 106%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 7

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at 0.5% dilution.
- 2 None detected



ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Sheldon Mini-Mart
REPORT DATE: January 7, 1994
DATE SAMPLED: December 29, 1993
DATE RECEIVED: December 29, 1993
ANALYSIS DATE: January 5, 1994

PROJECT CODE: GISM1675
REF.#: 55,587
STATION: Equip. Blank
TIME SAMPLED: 10:55
SAMPLER: Becca Schuyler

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	ND ¹
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	ND
MTBE	10	ND

Bromobenzene Surrogate Recovery: 101%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected

CHAIN-OF-CUSTODY RECORD

09351

Project Name: Sheldon Mini-Mart Site Location: Sheldon, VT	Reporting Address: Griffin	Billing Address: Griffin
Endyne Project Number: G15M1675	Company: Griffin Contact Name/Phone #: Kevin M. 279-7708	Sampler Name: Becca Schuyler Phone #: 279-7708

Lab #	Sample Location	Matrix	G R A B	C O M P	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
57522	Top Blank	H ₂ O	X		12-29-93 7:55	2	40ml		602	HCL	
57523	M.W.3	↓	↓		10:25	↓	↓				
57524	M.W.1	↓	↓		10:40	↓	↓	HOT			
57525	M.W.2	↓	↓		11:10	↓	↓	WATER			
57526	Dip. of MW1	↓	↓		10:40	↓	↓				
57527	Equip. Blank	✓	✓		10:55	✓	✓				

Relinquished by: Signature <i>Becca Schuyler</i>	Received by: Signature <i>Kevin M. 279-7708</i>	Date/Time 12/29/93 2:35pm
Relinquished by: Signature	Received by: Signature	Date/Time

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify)	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pest/PCB
4	Nitrite N	9	BOD ₅	14	Turbidity	19	BTEX	24	EPA 608 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (Specify):										

20

VERMONT DEPARTMENT OF HEALTH LABORATORY
195 COLCHESTER AVENUE, P.O. BOX 1125
BURLINGTON, VT 05402-1125
(800)660-9997 OR (802)863-7336

ANALYSIS OF WATER FOR VOLATILE ORGANIC COMPOUNDS
VDH KIT OA

LABORATORY RESULTS OF ANALYSIS

LABORATORY NUMBER: V94-0141

LABORATORY RESULTS: The laboratory test for volatile organic chemicals by E.P.A. Method 524.2, GC/MS has detected the presence of the following compounds:

COMPOUND(S) FOUND	CONCENTRATION ug/l (ppb)	Precision data ug/l (ppb)
Toluene	4.6	± 1.0
Ethyl Benzene	0.6	± 0.3
m+p-Xylene	2.8	± 0.4
o-Xylene	1.1	± 0.4
1,3,5-Trimethylbenzene	0.7	± 0.4
1,2,4-Trimethylbenzene	0.7	± 0.3

All other compounds tested for were not detected. A complete list of all volatile organic chemicals tested is on the attached sheet of this report.

LABORATORY NOTE: Detected is defined as greater than the method quantification limit.

Additional Laboratory Test Information:

Date Reported: DEC 07 1993

Reviewed by *[Signature]*

Please see other side for collection information.

DEC 1 1993



195 COLCHESTER AVENUE
 BURLINGTON, VERMONT 05402-0070
 863-7335 800-660-9997

V94-142

DATE RECEIVED: V94-142 (3)

WATER SAMPLE COLLECTION INFORMATION

REPORT TO BE SENT TO
 ENVIRONMENTAL HEALTH DIVISION
 108 CHERRY STREET
 BURLINGTON, VT 05401
 ATTN: Gail Center

NOV 30 11 44 AM '93

DATE OF COLLECTION	TIME OF COLLECTION	SAMPLE TAKEN IN TOWN OF	SAMPLER	DAY PHONE NO. (INCLUDE AREA CODE)
11 30 93 MO. DAY YR	9:34 (CIRCLE AM OR PM)	Sheldon Springs	Gail Center	X 7233

SUBMITTERS REMARKS
 Environmental Health Division
 Response Samples
 PROJECT 4
 Head Start Mobile Library

LABORATORY REMARKS
 Received 3 samples OK

NOTE: INCOMPLETE INFORMATION ON THIS REQUEST FORM
 MAY RESULT IN THE EXAMINATION BEING DELAYED OR
 THE SPECIMEN BEING REJECTED.

K#: 9319266
 P4
 OH: 8939 040593 (M)
 CH: /10916

SECTION BELOW FOR PUBLIC WATER USE ONLY

WATER SYSTEM NAME	SAMPLE LOCATION
5128 Sheldon Springs	Head Start Mobile Library

SAMPLER TITLE:
 OPERATOR HEALTH DEPT. HEALTH OFFICER STATE AGENCY OTHER

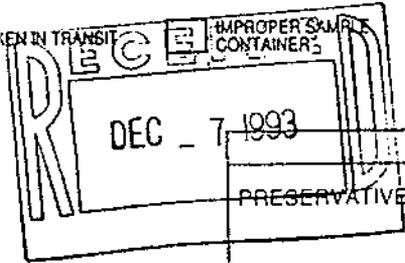
PURPOSE OF SAMPLE:
 TOTAL COLIFORM SAMPLE ROUTINE REPEAT REPLACEMENT OTHER Special Invest

OTHER SAMPLES:
 COMPLIANCE MONITORING REPEAT OTHER

TYPE OF SAMPLE:
 SOURCE DISTRIBUTION OTHER

FIELD DATA:
 CHLORINE RESIDUAL: _____ mg/l FREE Cl₂ _____ mg/l TOTAL Cl₂ NOT: CHLORINATED MEASURED
 TEMP: _____ ° F OR C (CIRCLE F OR C)

SAMPLE NOT ANALYZED BECAUSE:
 NO COLLECTION DATE INSUFFICIENT SAMPLE BROKEN IN TRANSIT IMPROPER SAMPLE CONTAINERS FEE REQUIRED FOR ANALYSIS WE WERE UNABLE TO COMPLETE TESTING OF THIS SAMPLE
 TOO OLD TO TEST



ENVIRONMENTAL HEALTH DIVISION
 108 CHERRY STREET
 BURLINGTON, VT 05401

FOR LABORATORY USE ONLY

PRESERVATIVE: NONE COOL < 4°C
 HCl HNO₃ H₂SO₄
 SODIUM THIOSULFATE HgCl₂ ASCORBIC ACID

4

VERMONT DEPARTMENT OF HEALTH LABORATORY
195 COLCHESTER AVENUE, P.O. BOX 1125
BURLINGTON, VT 05402-1125
(800)660-9997 OR (802)863-7336

ANALYSIS OF WATER FOR VOLATILE ORGANIC COMPOUNDS
VDH KIT OA

LABORATORY RESULTS OF ANALYSIS

LABORATORY NUMBER: V94-0142

LABORATORY RESULTS: The laboratory test for volatile organic chemicals by E.P.A. Method 524.2, GC/MS has detected the presence of the following compounds:

COMPOUND(S) FOUND	CONCENTRATION ug/l (ppb)	Precision data ug/l (ppb)
Toluene	5.4	± 1.0
Ethyl Benzene	0.7	± 0.3
m+p-Xylene	3.1	± 0.4
o-Xylene	1.3	± 0.4
1,3,5-Trimethylbenzene	0.8	± 0.4
1,2,4-Trimethylbenzene	0.7	± 0.3

All other compounds tested for were not detected. A complete list of all volatile organic chemicals tested is on the attached sheet of this report.

LABORATORY NOTE: Detected is defined as greater than the method quantification limit.

Additional Laboratory Test Information:

Date Reported: DEC 07 1993

Reviewed by *[Signature]*

Please see other side for collection information.



195 COLCHESTER AVENUE
 BURLINGTON, VERMONT 05402-0070
 863-7335 800-660-9997

V94-1143

DATE RECEIVED: V94-1143
 (3)

WATER SAMPLE COLLECTION INFORMATION

REPORT TO BE SENT TO
 ENVIRONMENTAL HEALTH DIVISION
 100 CHERRY STREET
 BURLINGTON, VT 05401
 ATTN: Gail Center

NOV 30 11 47 AM '93

COLLECTION TIME 11 30 93 ID. DAY YR	TIME OF COLLECTION 9:42 (CIRCLE AM OR PM) AM	SAMPLE TAKEN IN TOWN OF Sheldon Sprng	SAMPLER G. Center	DAY PHONE NO. (INCLUDE AREA CODE) X 7233
-------------------------------------------	-------------------------------------------------------	------------------------------------------	----------------------	---------------------------------------------

STAFFERS REMARKS
 Environmental Health Division
 Response Samples
 PROJECT 4
 MR. LOWELL

LABORATORY REMARKS
 received 3 samples - ok

NOTE: INCOMPLETE INFORMATION ON THIS REQUEST FORM
 MAY RESULT IN THE EXAMINATION BEING DELAYED OR
 THE SPECIMEN BEING REJECTED.

K#: 9319266
 P4
 OH: 8939 040593(M)
 CH: /10916

SECTION BELOW FOR PUBLIC WATER USE ONLY

WATER SYSTEM NAME 5128 Sheldon Sprng	SAMPLE LOCATION Mr. Lowell
-----------------------------------------	-------------------------------

SAMPLER TITLE:
 OPERATOR HEALTH DEPT. HEALTH OFFICER STATE AGENCY OTHER

PROPOSE OF SAMPLE:
 TOTAL COLIFORM SAMPLE ROUTINE REPEAT REPLACEMENT OTHER SP. invest.

OTHER SAMPLES: COMPLIANCE MONITORING REPEAT OTHER

TYPE OF SAMPLE: SOURCE DISTRIBUTION OTHER

FIELD DATA:
 CHLORINE RESIDUAL: _____ mg/l FREE Cl₂ _____ mg/l TOTAL Cl₂ NOT: CHLORINATED MEASURED
 TEMP: _____ ° F OR C (CIRCLE F OR C)

SAMPLE NOT ANALYZED BECAUSE:
 NO COLLECTION DATE INSUFFICIENT SAMPLE BROKEN IN TRANSIT IMPROPER SAMPLE CONTAINER FEE REQUIRED FOR ANALYSIS WE WERE UNABLE TO COMPLETE TESTING OF THIS SAMPLE
 TOO OLD TO TEST

ENVIRONMENTAL HEALTH DIVISION
 100 CHERRY STREET
 BURLINGTON, VT 05401

RECEIVED
 DEC - 7 1993

FOR LABORATORY USE ONLY
 PRESERVATIVE: NONE COOL < 4°C
 HCl HNO₃ H₂SO₄
 SODIUM THIOSULFATE HgCl₂ ASCORBIC ACID

6

VERMONT DEPARTMENT OF HEALTH LABORATORY
195 COLCHESTER AVENUE, P.O. BOX 1125
BURLINGTON, VT 05402-1125
(800) 660-9997 OR (802) 863-7336

ANALYSIS OF WATER FOR VOLATILE ORGANIC COMPOUNDS
VDH KIT OA

LABORATORY RESULTS OF ANALYSIS

LABORATORY NUMBER: V94-0143

LABORATORY RESULTS: The laboratory test for volatile organic chemicals by E.P.A. Method 524.2, GC/MS has detected the presence of the following compounds:

COMPOUND(S) FOUND	CONCENTRATION ug/l (ppb)	Precision data ug/l (ppb)
Benzene	0.7	± 0.6
Toluene	7.7	± 0.3
Ethyl Benzene	1.0	± 0.3
m+p-Xylene	4.3	± 0.4
o-Xylene	1.8	± 0.4
1,3,5-Trimethylbenzene	1.0	± 0.4

All other compounds tested for were not detected. A complete list of all volatile organic chemicals tested is on the attached sheet of this report.

LABORATORY NOTE: Detected is defined as greater than the method quantification limit.

Additional Laboratory Test Information:

Date Reported: DEC 07 1993

Reviewed by

Please see other side for collection information.



195 COLCHESTER AVENUE
 BURLINGTON, VERMONT 05402-0070
 863-7335 800-660-9997

V94 144

DATE RECEIVED:

7

WATER SAMPLE COLLECTION INFORMATION

PORT TO BE SENT TO
 ENVIRONMENTAL HEALTH DIVISION
 100 CHERRY STREET
 BURLINGTON, VT 05401

ATTN: Gail Center

NOV 30 11 48 AM '93

DATE OF COLLECTION	TIME OF COLLECTION	SAMPLE TAKEN IN TOWN OF	SAMPLER	DAY PHONE NO. (INCLUDE AREA CODE)
11 30 93	9:52 AM	Sheldon Springs	G. Center	x 7233

ADDITIONAL REMARKS

Environmental Health Division
 Response Samples
 PROJECT 4

Sarah TRAYAH

LABORATORY REMARKS

received 3 samples - OK

NOTE: INCOMPLETE INFORMATION ON THIS REQUEST FORM
 MAY RESULT IN THE EXAMINATION BEING DELAYED OR
 THE SPECIMEN BEING REJECTED.

K#: 9319266
 P4
 O#: 8939 040593 (M)
 CH: /10916

SECTION BELOW FOR PUBLIC WATER USE ONLY

WATER SYSTEM NAME	SAMPLE LOCATION
5128 Sheldon Springs	TRAYAH home

SAMPLER TITLE:

OPERATOR HEALTH DEPT. HEALTH OFFICER STATE AGENCY OTHER

PURPOSE OF SAMPLE:

TOTAL COLIFORM SAMPLE ROUTINE REPEAT REPLACEMENT OTHER SP. INVEST.

OTHER SAMPLES COMPLIANCE MONITORING REPEAT OTHER

TYPE OF SAMPLE: SOURCE DISTRIBUTION OTHER

ELD DATA:

CHLORINE RESIDUAL: _____ mg/l FREE Cl₂ _____ mg/l TOTAL Cl₂ NOT: CHLORINATED MEASURED

TEMP: _____ ° F OR C (CIRCLE F OR C)

SAMPLE NOT ANALYZED BECAUSE:

NO COLLECTION DATE INSUFFICIENT SAMPLE BROKEN IN TRANSIT IMPROPER SAMPLE CONTAINER FEE REQUIRED FOR ANALYSIS WE WERE UNABLE TO COMPLETE TESTING OF THIS SAMPLE

TOO OLD TO TEST

RECEIVED
 DEC - 7 1993

ENVIRONMENTAL HEALTH DIVISION
 100 CHERRY STREET
 BURLINGTON, VT 05401

FOR LABORATORY USE ONLY

PRESERVATIVE: NONE COOL < 4°C

HCl HNO₃ H₂SO₄

SODIUM THIOSULFATE HgCl₂ ASCORBIC ACID

8

VERMONT DEPARTMENT OF HEALTH LABORATORY
195 COLCHESTER AVENUE, P.O. BOX 1125
BURLINGTON, VT 05402-1125
(800) 660-9997 OR (802) 863-7336

ANALYSIS OF WATER FOR VOLATILE ORGANIC COMPOUNDS
VDH KIT OA

LABORATORY RESULTS OF ANALYSIS

LABORATORY NUMBER: V94-0144

LABORATORY RESULTS: The laboratory test for volatile organic chemicals by E.P.A. Method 524.2, GC/MS has detected the presence of the following compounds:

COMPOUND(S) FOUND	CONCENTRATION ug/l (ppb)	Precision data ug/l (ppb)
Benzene	1.2	± 0.6
Toluene	12.7	± 0.3
Ethyl Benzene	1.7	± 0.3
m+p-Xylene	7.1	± 0.4
o-Xylene	3.0	± 0.4
1,3,5-Trimethylbenzene	1.8	± 0.4
1,2,4-Trimethylbenzene	1.7	± 0.3

All other compounds tested for were not detected. A complete list of all volatile organic chemicals tested is on the attached sheet of this report.

LABORATORY NOTE: Detected is defined as greater than the method quantification limit.

Additional Laboratory Test Information:

Date Reported: DEC 07 1993

Reviewed by *[Signature]*

Please see other side for collection information.



VERMONT DEPARTMENT OF HEALTH EDUCATION
 195 COLCHESTER AVENUE
 BURLINGTON, VERMONT 05402-0070
 863-7335 800-660-9997

V94-145

V94-145
 DATE RECEIVED: 9

WATER SAMPLE COLLECTION INFORMATION

TO BE SENT TO
 ENVIRONMENTAL HEALTH DIVISION
 108 CHERRY STREET
 BURLINGTON, VT 05401
 ATTN: Gail Center

NOV 23 11 51 AM '93

DATE OF COLLECTION	TIME OF COLLECTION	SAMPLE TAKEN IN TOWN OF	SAMPLER	DAY PHONE NO. (INCLUDE AREA CODE)
11 30 93	10:06 AM	Sheldon Sp.	G. Center	x 7233

EMITTERS REMARKS
 Environmental Health Division
 Response Samples
 PROJECT 4
 Wells

LABORATORY REMARKS
 Received 3 samples - 2 OK - 1 w/ anomalies

NOTE: INCOMPLETE INFORMATION ON THIS REQUEST FORM
 MAY RESULT IN THE EXAMINATION BEING DELAYED OR
 THE SPECIMEN BEING REJECTED.

K#: 9319266
 P4
 DN: 8939 040593 (M)
 CN: /10916

SECTION BELOW FOR PUBLIC WATER USE ONLY

WATER SYSTEM NAME	SAMPLE LOCATION
5128 Sheldon Springs	Wells home

SAMPLER TITLE:
 OPERATOR HEALTH DEPT. HEALTH OFFICER STATE AGENCY OTHER

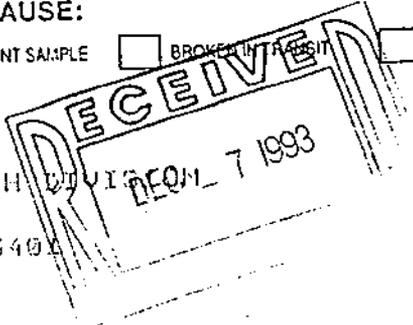
PROPOSE OF SAMPLE:
 TOTAL COLIFORM SAMPLE ROUTINE REPEAT REPLACEMENT OTHER SP INVEST.

ADDITIONAL OTHER SAMPLES COMPLIANCE MONITORING REPEAT OTHER

TYPE OF SAMPLE: SOURCE DISTRIBUTION OTHER

CLD DATA:
 CHLORINE RESIDUAL: _____ mg/l FREE Cl₂ _____ mg/l TOTAL Cl₂ NOT: CHLORINATED MEASURED
 TEMP: _____ ° F OR C (CIRCLE F OR C)

SAMPLE NOT ANALYZED BECAUSE:
 INC COLLECTION DATE INSUFFICIENT SAMPLE BROKEN IN TRANSIT IMPROPER SAMPLE CONTAINER FEE REQUIRED FOR ANALYSIS WE WERE UNABLE TO COMPLETE TESTING OF THIS SAMPLE
 TOO OLD TO TEST



ENVIRONMENTAL HEALTH DIVISION
 108 CHERRY STREET
 BURLINGTON, VT 05401

FOR LABORATORY USE ONLY					
PRESERVATIVE:	<input type="checkbox"/> NONE	<input type="checkbox"/> COOL < 4°C	<input checked="" type="checkbox"/> HCl	<input type="checkbox"/> HNO ₃	<input type="checkbox"/> H ₂ SO ₄
	<input type="checkbox"/> SODIUM THIOSULFATE	<input type="checkbox"/> HgCl ₂	<input type="checkbox"/> ASCORBIC ACID		

10

VERMONT DEPARTMENT OF HEALTH LABORATORY
195 COLCHESTER AVENUE, P.O. BOX 1125
BURLINGTON, VT 05402-1125
(800)660-9997 OR (802)863-7336

ANALYSIS OF WATER FOR VOLATILE ORGANIC COMPOUNDS
VDH KIT OA

LABORATORY RESULTS OF ANALYSIS

LABORATORY NUMBER: V94-0145

LABORATORY RESULTS: The laboratory test for volatile organic chemicals by E.P.A. Method 524.2, GC/MS has detected the presence of the following compounds:

COMPOUND(S) FOUND	CONCENTRATION ug/l (ppb)	Precision data ug/l (ppb)
Benzene	0.7	± 0.6
Toluene	8.1	± 0.3
Ethyl Benzene	1.1	± 0.3
m+p-Xylene	4.9	± 0.4
o-Xylene	2.1	± 0.4
1,3,5-Trimethylbenzene	1.5	± 0.4
1,2,4-Trimethylbenzene	1.3	± 0.3

All other compounds tested for were not detected. A complete list of all volatile organic chemicals tested is on the attached sheet of this report.

LABORATORY NOTE: Detected is defined as greater than the method quantification limit.

Additional Laboratory Test Information:

Date Reported: DEC 07 1993

Reviewed by *[Signature]*

Please see other side for collection information.



VERMONT DEPARTMENT OF HEALTH LABORATORY

195 COLCHESTER AVENUE
BURLINGTON, VERMONT 05402-0070
863-7335 800-660-9997

WATER SAMPLE COLLECTION INFORMATION

LABORATORY NO. V94-146
DATE RECEIVED: (X)

V94-146

11:30 11:52 AM '93

REPORT TO BE SENT TO
ENVIRONMENTAL HEALTH DIVISION
108 CHERRY STREET
BURLINGTON, VT 05401

ATTN: Gail Center

TIME OF COLLECTION	TIME OF COLLECTION	SAMPLE TAKEN IN TOWN OF	SAMPLER	DAY PHONE NO. (INCLUDE AREA CODE)
11:30 AM '93	10:16 AM	Sheldon Sp.	G. Center	x7233

LABORATORY REMARKS
Environmental Health Division
Response Samples
PROJECT 4
Prim

LABORATORY REMARKS
Received 3 samples - OK

NOTE: INCOMPLETE INFORMATION ON THIS REQUEST FORM
MAY RESULT IN THE EXAMINATION BEING DELAYED OR
THE SPECIMEN BEING REJECTED.

K#: 9319266
P4
DN: 8939 040593(M)
C#: /10916

SECTION BELOW FOR PUBLIC WATER USE ONLY

WATER SYSTEM NAME	SAMPLE LOCATION
5128 Sheldon Springs	Prim home

SAMPLER TITLE: OPERATOR HEALTH DEPT. HEALTH OFFICER STATE AGENCY OTHER

PURPOSE OF SAMPLE: TOTAL COLIFORM SAMPLE ROUTINE REPEAT REPLACEMENT OTHER sp. invest.

OTHER SAMPLES: COMPLIANCE MONITORING REPEAT OTHER

TYPE OF SAMPLE: SOURCE DISTRIBUTION OTHER

FIELD DATA:
CHLORINE RESIDUAL: _____ mg/l FREE Cl₂ _____ mg/l TOTAL Cl₂ NOT: CHLORINATED MEASURED
TEMP: _____ ° F OR C (CIRCLE F OR C)

SAMPLE NOT ANALYZED BECAUSE:
 NO COLLECTION DATE INSUFFICIENT SAMPLE BROKEN IN TRANSIT IMPROPER SAMPLE CONTAINER FEE REQUIRED FOR ANALYSIS WE WERE UNABLE TO COMPLETE TESTING OF THIS SAMPLE
 TOO OLD TO TEST

RECEIVED
DEC - 7 1993

ENVIRONMENTAL HEALTH DIVISION
108 CHERRY STREET
BURLINGTON, VT 05401

FOR LABORATORY USE ONLY

PRESERVATIVE: NONE COOL < 4°C
 HCl HNO₃ H₂SO₄
 SODIUM THIOSULFATE HgCl₂ ASCORBIC ACID

VERMONT DEPARTMENT OF HEALTH LABORATORY
195 COLCHESTER AVENUE, P.O. BOX 1125
BURLINGTON, VT 05402-1125
(800) 660-9997 OR (802) 863-7336

ANALYSIS OF WATER FOR VOLATILE ORGANIC COMPOUNDS
VDH KIT OA

LABORATORY RESULTS OF ANALYSIS

LABORATORY NUMBER: V94-0146

LABORATORY RESULTS: The laboratory test for volatile organic chemicals by E.P.A. Method 524.2, GC/MS has detected the presence of the following compounds:

COMPOUND(S) FOUND	CONCENTRATION ug/l (ppb)	Precision data ug/l (ppb)
Benzene	1.6	± 0.6
Toluene	16.7	± 0.3
Ethyl Benzene	2.3	± 0.3
m+p-Xylene	9.6	± 0.4
o-Xylene	4.0	± 0.4
1,3,5-Trimethylbenzene	2.4	± 0.4
1,2,4-Trimethylbenzene	2.2	± 0.3

All other compounds tested for were not detected. A complete list of all volatile organic chemicals tested is on the attached sheet of this report.

LABORATORY NOTE: Detected is defined as greater than the method quantification limit.

Additional Laboratory Test Information:

Date Reported: DEC 07 1993

Reviewed by 

Please see other side for collection information.



VERMONT DEPARTMENT OF HEALTH LABORATORY
 195 COLCHESTER AVENUE
 BURLINGTON, VERMONT 05402-0070
 863-7335 800-660-9997

V94 195

LAB NO: V001-195 (2)
 DATE RECEIVED:

WATER SAMPLE COLLECTION INFORMATION

REPORT TO BE SENT TO
 GRIFFEN INTERNATIONAL
 2 B DORSET LANE
 WILLISTON, VT 05495

RECEIVED

JAN 26 1 53 PM '94

JAN 28 1994
 Vermont Department of
 Health Laboratory

RECEIVED FEB 02 1994

DATE OF COLLECTION MO. 26 DAY 04 YR	TIME OF COLLECTION 1213 (CIRCLE AM OR PM) AM	SAMPLE TAKEN IN TOWN OF SHELDON SPRINGS	SAMPLER ERIK SANDBLOM	DAY PHONE NO. (INCLUDE AREA CODE) 802 879-7708
----------------------------------------	-------------------------------------------------------	-----------------------------------------------	--------------------------	------------------------------------------------------

SUBMITTERS REMARKS
 RUSH

LABORATORY REMARKS
 Kit for VOC - Public Water Supplies --
 EPA Method 824.2
 Received 3 samples - 1 rejected
 for air bubbles
 No trip blank

NOTE: INCOMPLETE INFORMATION ON THIS REQUEST FORM
 MAY RESULT IN THE EXAMINATION BEING DELAYED OR
 THE SPECIMEN BEING REJECTED.

K#: 9342985
 OA
 O#: 15343 012694(W)
 P#: 402543/17124

SECTION BELOW FOR PUBLIC WATER USE ONLY

WATER SYSTEM NAME Sheldon Springs	SAMPLE LOCATION Sheldon Mini-Mart
--------------------------------------	--------------------------------------

SAMPLER TITLE:
 OPERATOR HEALTH DEPT. HEALTH OFFICER STATE AGENCY OTHER Consultant

PURPOSE OF SAMPLE:
 TOTAL COLIFORM SAMPLE ROUTINE REPEAT REPLACEMENT OTHER

ALL OTHER SAMPLES
 COMPLIANCE MONITORING REPEAT OTHER Monitoring for VOCs

TYPE OF SAMPLE:
 SOURCE DISTRIBUTION OTHER

FIELD DATA:
 CHLORINE RESIDUAL: _____ mg/l FREE Cl₂ _____ mg/l TOTAL Cl₂ NOT: CHLORINATED MEASURED
 TEMP: _____ ° F OR C (CIRCLE F OR C)

SAMPLE NOT ANALYZED BECAUSE:
 NO COLLECTION DATE INSUFFICIENT SAMPLE BROKEN IN TRANSIT IMPROPER SAMPLE CONTAINER FEE REQUIRED FOR ANALYSIS WE WERE UNABLE TO COMPLETE TESTING OF THIS SAMPLE
 TOO OLD TO TEST

GRIFFEN INTERNATIONAL
 2 B DORSET LANE
 WILLISTON, VT 05495

FOR LABORATORY USE ONLY

PRESERVATIVE: <input type="checkbox"/> NONE <input type="checkbox"/> COOL < 4°C
<input checked="" type="checkbox"/> HCl <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄
<input type="checkbox"/> SODIUM THIOSULFATE <input type="checkbox"/> HgCl ₂ <input type="checkbox"/> ASCORBIC ACID

VERMONT DEPARTMENT OF HEALTH LABORATORY
195 COLCHESTER AVENUE, P.O. BOX 1125
BURLINGTON, VT 05402-1125
(800)660-9997 OR (802)863-7336

ANALYSIS OF WATER FOR VOLATILE ORGANIC COMPOUNDS
VDH KIT OA

LABORATORY RESULTS OF ANALYSIS

LABORATORY NUMBER: V94-0195

LABORATORY RESULTS: The laboratory test for volatile organic chemicals by E.P.A. Method 524.2, GC/MS has detected the presence of the following compounds:

COMPOUND(S) FOUND	CONCENTRATION ug/l (ppb)	Precision data ug/l (ppb)
Benzene	0.6	± 0.5
Toluene	7.0	± 0.3
Ethyl Benzene	0.8	± 0.3
m+p-Xylene	4.2	± 0.3
o-Xylene	1.8	± 0.3
1,2,4-Trimethylbenzene	0.9	± 0.3

All other compounds tested for were not detected. A complete list of all volatile organic chemicals tested is on the attached sheet of this report.

LABORATORY NOTE: Detected is defined as greater than the method quantification limit.

Additional Laboratory Test Information:

The test indicates other hydrocarbons present.

Date Reported: FEB 01 1994

Reviewed by *gje*

Please see other side for collection information.



VERMONT DEPARTMENT OF HEALTH LABORATORY

195 COLCHESTER AVENUE
BURLINGTON, VERMONT 05402-0070
863-7335 800-660-9997

LAB NO.: V 611-194 (A)
DATE RECEIVED:

V94-194

Griffin WATER SAMPLE COLLECTION INFORMATION

REPORT TO BE SENT TO
GRIFFIN INTERNATIONAL
2 B DORSET LANE
WILLISTON, VT 05495

RECEIVED
JAN 26 1994
Vermont Department of Health Laboratory

Form with fields: DATE OF COLLECTION (MO 1 DAY 26 YR 94), TIME OF COLLECTION (1114), SAMPLE TAKEN IN TOWN OF (SHELDON SPRINGS), SAMPLER (ERIK SANDBLOM), DAY PHONE NO. (802 879-7708)

SUBMITTERS REMARKS
Rusit

LABORATORY REMARKS
Kit for VOC - Public Water Supplies --
EPA, Method 524.2
received 3 samples - OK
trip blank - OK

NOTE: INCOMPLETE INFORMATION ON THIS REQUEST FORM
MAY RESULT IN THE EXAMINATION BEING DELAYED OR
THE SPECIMEN BEING REJECTED.

K#: 9342986
DA
D#: 15343 012694 (W)
P#: 402543/17124

SECTION BELOW FOR PUBLIC WATER USE ONLY

Form with fields: ID, WATER SYSTEM NAME (Sheldon Springs), SAMPLE LOCATION (Lowell)

AMPLER TITLE:
[] OPERATOR [] HEALTH DEPT. [] HEALTH OFFICER [] STATE AGENCY [X] OTHER Private Consultant

PURPOSE OF SAMPLE:
TOTAL COLIFORM SAMPLE [] ROUTINE [] REPEAT [] REPLACEMENT [] OTHER
ALL OTHER SAMPLES [] COMPLIANCE MONITORING [] REPEAT [X] OTHER Monitor for VOCs

TYPE OF SAMPLE:
[] SOURCE [X] DISTRIBUTION [] OTHER

FIELD DATA:
CHLORINE RESIDUAL: mg/l FREE Cl2 mg/l TOTAL Cl2 NOT: [] CHLORINATED [] MEASURED
TEMP: ° F OR C (CIRCLE F OR C)

AMPLE NOT ANALYZED BECAUSE:
[] NO COLLECTION DATE [] INSUFFICIENT SAMPLE [] BROKEN IN TRANSIT [] IMPROPER SAMPLE CONTAINER [] FEE REQUIRED FOR ANALYSIS [] WE WERE UNABLE TO COMPLETE TESTING OF THIS SAMPLE
[] TOO OLD TO TEST

GRIFFIN INTERNATIONAL
2 B DORSET LANE
WILLISTON, VT 05495

FOR LABORATORY USE ONLY
PRESERVATIVE: [] NONE [] COOL < 4°C
[X] HCl [] HNO3 [] H2SO4
[] SODIUM THIOSULFATE [] HgCl2 [] ASCORBIC ACID

VERMONT DEPARTMENT OF HEALTH LABORATORY
195 COLCHESTER AVENUE, P.O. BOX 1125
BURLINGTON, VT 05402-1125
(800) 660-9997 OR (802) 863-7336

ANALYSIS OF WATER FOR VOLATILE ORGANIC COMPOUNDS
VDH KIT OA

LABORATORY RESULTS OF ANALYSIS

LABORATORY NUMBER: V94-0194

LABORATORY RESULTS: The laboratory test for volatile organic chemicals by E.P.A. Method 524.2, GC/MS has detected the presence of the following compounds:

COMPOUND(S) FOUND	CONCENTRATION ug/l (ppb)	Precision data ug/l (ppb)
Benzene	1.5	± 0.5
Toluene	17.4	± 0.3
Ethyl Benzene	2.2	± 0.3
m+p-Xylene	9.9	± 0.3
o-Xylene	4.2	± 0.3
1,3,5-Trimethylbenzene	0.8	± 0.3
1,2,4-Trimethylbenzene	2.5	± 0.4

All other compounds tested for were not detected. A complete list of all volatile organic chemicals tested is on the attached sheet of this report.

LABORATORY NOTE: Detected is defined as greater than the method quantification limit.

Additional Laboratory Test Information:

The test indicates other hydrocarbons present.

Date Reported: FEB 01 1994

Reviewed by 

Please see other side for collection information.



VERMONT DEPARTMENT OF HEALTH LABORATORY

195 COLCHESTER AVENUE
BURLINGTON, VERMONT 05402-0070
863-7335 800-660-9997

V94-193

LAB NO.: V94-193
DATE RECEIVED:

6

WATER SAMPLE COLLECTION INFORMATION

REPORT TO BE SENT TO
GRIFFEN INTERNATIONAL
2 B DORSET LANE
WILLISTON, VT 05495

RECEIVED

JAN 26 1 53 PM '94

JAN 26 1994

Vermont Department of
Health Laboratory

DATE OF COLLECTION MO 26 DAY 94 YR	TIME OF COLLECTION 1156 (CIRCLE AM OR PM) <input checked="" type="radio"/> AM <input type="radio"/> PM	SAMPLE TAKEN IN TOWN OF SHELDON SPRINGS	SAMPLER ERIK SAND BLEM	DAY PHONE NO. (INCLUDE AREA CODE) 802 879-7708
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SUBMITTERS REMARKS
Rush

LABORATORY REMARKS
Kit for VOC - Public Water Supplies --
EPA Method 524.2
Received 3 samples - OK
No trip blank

NOTE: INCOMPLETE INFORMATION ON THIS REQUEST FORM
MAY RESULT IN THE EXAMINATION BEING DELAYED OR
THE SPECIMEN BEING REJECTED.

K#: 9342987
QA
Q#: 15343 012694 (W)
P#: 402543/17124

SECTION BELOW FOR PUBLIC WATER USE ONLY

WATER SYSTEM NAME SHELDON SPRINGS	SAMPLE LOCATION BABBIE
--------------------------------------	---------------------------

SAMPLER TITLE:
 OPERATOR HEALTH DEPT. HEALTH OFFICER STATE AGENCY OTHER Consultant

PURPOSE OF SAMPLE:
 TOTAL COLIFORM SAMPLE ROUTINE REPEAT REPLACEMENT OTHER

ALL OTHER SAMPLES
 COMPLIANCE MONITORING REPEAT OTHER VOC Monitoring

TYPE OF SAMPLE:
 SOURCE DISTRIBUTION OTHER

FIELD DATA:
CHLORINE RESIDUAL: _____ mg/l FREE Cl₂ _____ mg/l TOTAL Cl₂ NOT: CHLORINATED MEASURED
TEMP: _____ ° F OR C (CIRCLE F OR C)

SAMPLE NOT ANALYZED BECAUSE:
 NO COLLECTION DATE INSUFFICIENT SAMPLE BROKEN IN TRANSIT IMPROPER SAMPLE CONTAINER FEE REQUIRED FOR ANALYSIS WE WERE UNABLE TO COMPLETE TESTING OF THIS SAMPLE
 TOO OLD TO TEST

GRIFFEN INTERNATIONAL
2 B DORSET LANE
WILLISTON, VT 05495

FOR LABORATORY USE ONLY		
PRESERVATIVE: <input type="checkbox"/> NONE	<input type="checkbox"/> COOL < 4°C	
<input checked="" type="checkbox"/> HCl	<input type="checkbox"/> HNO ₃	<input type="checkbox"/> H ₂ SO ₄
<input type="checkbox"/> SODIUM THIOSULFATE	<input type="checkbox"/> HgCl ₂	<input type="checkbox"/> ASCORBIC ACID

(3)

VERMONT DEPARTMENT OF HEALTH LABORATORY
195 COLCHESTER AVENUE, P.O. BOX 1125
BURLINGTON, VT 05402-1125
(800)660-9997 OR (802)863-7336

ANALYSIS OF WATER FOR VOLATILE ORGANIC COMPOUNDS
VDH KIT OA

LABORATORY RESULTS OF ANALYSIS

LABORATORY NUMBER: V94-0193

LABORATORY RESULTS: The laboratory test for volatile organic chemicals by E.P.A. Method 524.2, GC/MS has detected the presence of the following compounds:

COMPOUND(S) FOUND	CONCENTRATION ug/l (ppb)	Precision data ug/l (ppb)
Benzene	2.0	± 0.5
Toluene	22.6	± 0.3
Ethyl Benzene	2.8	± 0.3
m+p-Xylene	12.7	± 0.3
o-Xylene	5.4	± 0.3
1,3,5-Trimethylbenzene	0.9	± 0.3
1,2,4-Trimethylbenzene	2.6	± 0.4

All other compounds tested for were not detected. A complete list of all volatile organic chemicals tested is on the attached sheet of this report.

LABORATORY NOTE: Detected is defined as greater than the method quantification limit.

Additional Laboratory Test Information:

The test indicates other hydrocarbons present.

Date Reported: FEB 01 1994

Reviewed by *[Signature]*

Please see other side for collection information.



VERMONT DEPARTMENT OF HEALTH LABORATORY

195 COLCHESTER AVENUE
BURLINGTON, VERMONT 05402-0001
863-7335 800-660-9997

V94-192

LAB NO.: V94-192 (8)

DATE RECEIVED:

WATER SAMPLE COLLECTION INFORMATION

REPORT TO BE SENT TO
GRIFFEN INTERNATIONAL
2 B DORSET LANE
WILLISTON, VT 05495

RECEIVED

JAN 26 1 52 PM '94

JAN 26 1994

Vermont Department of
Health Laboratory

DATE OF COLLECTION MO 1 DAY 26 YR 94	TIME OF COLLECTION 1134 (CIRCLE AM OR PM) AM	SAMPLE TAKEN IN TOWN OF SHELDON SPRINGS	SAMPLER ERIK SANDBLOM	DAY PHONE NO. (INCLUDE AREA CODE) 802 874-7708
-----------------------------------------	-------------------------------------------------------	--------------------------------------------	--------------------------	---------------------------------------------------

SUBMITTER'S REMARKS
RUSH

LABORATORY REMARKS
Kit for VOC - Public Water Supplies --
EPA Method 524.2
Received 3 samples - OK
No trip blank

NOTE: INCOMPLETE INFORMATION ON THIS REQUEST FORM
MAY RESULT IN THE EXAMINATION BEING DELAYED OR
THE SPECIMEN BEING REJECTED.

K#: 9342989
DA
D#: 15343 012694 (W)
P#: 402543/17124

SECTION BELOW FOR PUBLIC WATER USE ONLY

ID	WATER SYSTEM NAME Sheldon Springs	SAMPLE LOCATION Wells
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AMPLER TITLE:

- OPERATOR
- HEALTH DEPT.
- HEALTH OFFICER
- STATE AGENCY
- OTHER Consultant

PURPOSE OF SAMPLE:

- TOTAL COLIFORM SAMPLE ROUTINE
- REPEAT
- REPLACEMENT
- OTHER

ALL OTHER SAMPLES

- COMPLIANCE MONITORING
- REPEAT
- OTHER Monitor VOCs

TYPE OF SAMPLE:

- SOURCE
- DISTRIBUTION
- OTHER

FIELD DATA:

CHLORINE RESIDUAL: _____ mg/l FREE Cl₂ _____ mg/l TOTAL Cl₂ NOT: CHLORINATED MEASURED

TEMP: _____ ° F OR C (CIRCLE F OR C)

SAMPLE NOT ANALYZED BECAUSE:

- NO COLLECTION DATE
- INSUFFICIENT SAMPLE
- BROKEN IN TRANSIT
- IMPROPER SAMPLE CONTAINER
- FEE REQUIRED FOR ANALYSIS
- WE WERE UNABLE TO COMPLETE TESTING OF THIS SAMPLE
- TOO OLD TO TEST

GRIFFEN INTERNATIONAL
2 B DORSET LANE
WILLISTON, VT 05495

FOR LABORATORY USE ONLY

- PRESERVATIVE: NONE COOL < 4°C
- HCl HNO₃ H₂SO₄
- SODIUM THIOSULFATE HgCl₂ ASCORBIC ACID

VERMONT DEPARTMENT OF HEALTH LABORATORY
195 COLCHESTER AVENUE, P.O. BOX 1125
BURLINGTON, VT 05402-1125
(800)660-9997 OR (802)863-7336

ANALYSIS OF WATER FOR VOLATILE ORGANIC COMPOUNDS
VDH KIT OA

LABORATORY RESULTS OF ANALYSIS

LABORATORY NUMBER: V94-0192

LABORATORY RESULTS: The laboratory test for volatile organic chemicals by E.P.A. Method 524.2, GC/MS has detected the presence of the following compounds:

COMPOUND(S) FOUND	CONCENTRATION ug/l (ppb)	Precision data ug/l (ppb)
Benzene	1.4	± 0.5
Toluene	15.7	± 0.3
Ethyl Benzene	1.9	± 0.3
m+p-Xylene	9.8	± 0.3
o-Xylene	3.7	± 0.3
1,3,5-Trimethylbenzene	0.7	± 0.3
1,2,4-Trimethylbenzene	2.1	± 0.4

All other compounds tested for were not detected. A complete list of all volatile organic chemicals tested is on the attached sheet of this report.

LABORATORY NOTE: Detected is defined as greater than the method quantification limit.

Additional Laboratory Test Information:

The test indicates other hydrocarbons present.

Date Reported: FEB 01 1994

Reviewed by *nr*

Please see other side for collection information.