

Phase:	Type:
Initial Site Investigation	Technical Report



LAW

ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

INITIAL SITE INVESTIGATION

**APPLEGATE APARTMENTS
98 ORCHARD ROAD
BENNINGTON, VERMONT**

SMS SITE # 97-2188

Prepared For:

**W. EDWIN WALLACE & ASSOCIATES
7400 Baymeadows Way, Suite 105
Jacksonville, Florida 32256**

Prepared By:

**Law Engineering and Environmental Services, Inc.
3901 Carmichael Avenue
Jacksonville, Florida 32207**

November 5, 1997

LAW Project No. 40544-7-7966



LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

3901 CARMICHAEL AVENUE • JACKSONVILLE, FL 32207

Telephone: (904) 396-5173 / Facsimile: (904) 399-3176

LETTER OF TRANSMITTAL

TO:

Vermont Department of Environmental Conservation

103 South Main Street, West Building

Waterbury, Vermont 05671-0404

Project No.:

40544-7-7966

DATE: 11-6-97

ATTN: Matt Moran

RE: Applegate Apartments

GENTLEMEN:

- WE ARE SENDING YOU: Attached Under separate cover via _____ the following:
- Letter Prints Plans Samples Specifications
- Change order Copy of report Contractor Submittals Electronic data Invoice
- Contract Photographs Draft Plans Database Printout O&M Program

NUMBER OF COPIES: 1

THESE ARE TRANSMITTED AS CHECKED BELOW:

- For approval As requested For your file(s)
- For your use For review and comment For your information

REMARKS:

Please attach the enclosed drawing to the Initial Site Investigation for the Applegate Apartments, Bennington, Vermont. SMS Site # 97-2188.

COPY TO: File

SIGNED:

Mary P. Shumway (p.p.)
Mary P. Shumway

November 5, 1997



LAW

ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Mr. Edwin Wallace
W. Edwin Wallace & Associates
7400 Baymeadows Way, Suite 105
Jacksonville, Florida 32256

Subject: **Initial Site Investigation**
Applegate Apartments
98 Orchard Road
Bennington, Vermont
LAW Project No. 40544-7-7966

68910
10 23 AM '97

Dear Mr. Wallace:

Law Engineering and Environmental Services, Inc. (LAW) has completed an Initial Site Investigation for the subject property in general accordance with LAW Proposal No. 97-4856E dated July 29, 1997. The purpose of our services was to help identify the potential for adverse environmental impacts to the subject property. Written authorization to proceed was provided by Mr. Wallace via the Proposal Authorization Sheet.

This report is intended for the exclusive use of W. Edwin Wallace & Associates, the United States Department of Housing and Urban Development (HUD), and the Vermont Department of Environmental Conservation (VDEC), under the terms and conditions of our proposal. The consent of LAW to reliance and use by others is contingent upon acceptance of the attached Agreement for Secondary Client. Use of this report for purposes beyond those reasonably intended by W. Edwin Wallace & Associates, HUD, VDEC, and LAW will be at the sole risk of the user.

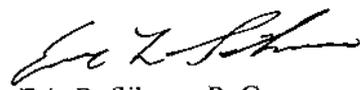
The findings and recommendations contained herein are based on the data which was reviewed and documented in this report along with our experience on similar projects. The discovery of any additional information concerning the environmental conditions at the site should be reported to us for our review so that we can reassess potential environmental impacts and modify our recommendations, if necessary.

We appreciate the opportunity to have been of assistance to you in this matter and look forward to serving as your environmental consultant in the future. If you have any questions or wish to discuss our findings in further detail, please contact us.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.


Mary P. Shumway
Project Scientist


Eric R. Silvers, P. G.
Principal Geologist

MPS/ERS:ph

Distribution: W. Edwin Wallace & Associates (3)
State of Vermont Department of Environmental Conservation (1)
File (1)

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1.0 EXECUTIVE SUMMARY

Law Engineering and Environmental Services, Inc. (LAW) has completed an Initial Site Investigation of the Applegate Apartments located at 98 Orchard Road in Bennington, Vermont, in general accordance with LAW Proposal No. 97-4856E dated July 29, 1997. Our services were authorized by Mr. Edwin Wallace of W. Edwin Wallace & Associates on July 29, 1997. Background information has been provided to LAW by Mr. Wallace on July 29, 1997. Additional background information on the tank removals from the site is contained in LAW report, Fuel Oil Underground Storage Tanks Removal Report, LAW Project No. 40583-6-2248.03, dated June 13, 1997.

The Initial Site Investigation was requested after the removal of 25 Underground Fuel Oil Storage Tanks (USTs) from the site on June 13, 1997. PID readings from the soil screening analysis conducted at the time of the tank removal detected organic vapors from 16 to 580 ppm. Subsequent soil screening conducted during initial site investigation detected a significant reduction in organic vapor readings in the soil samples. Organic Vapor Monitoring (OVM) detected between 40 and 105 ppm in soils from 6 sampling locations and between 0 and 37 ppm for the remaining 57 sample locations. The reduction in detected organic vapors suggests that petroleum product in the soil may have volatilized during the disturbance of the surrounding soil matrix during the tank removal process. *if the excavated + stored oil tank is properly disposed*

The Vermont State Agency of Natural Resources Waste Management Division's "Agency Guidelines for Petroleum Contaminated Soil and Debris" states that soil with PID readings from 40 to 400 ppm for fuel oil contaminated soils requires treatment on site. Contaminated soils detected on site during the initial site investigation did not have readings above 105 ppm. Therefore, it is recommended that the contaminated soils remain in place since sufficient groundwater data indicates that the impacted soil material will not be an active or future source of groundwater contamination. If contaminated soils are disturbed, all such materials must be disposed of in accordance with applicable state and federal guidelines and policies and can not be redistributed on-site.

A total of 42 groundwater monitoring wells were installed at the Applegate Apartment site with at least one well installed in the vicinity of each UST excavation pit. Monitoring wells installed at excavation pits 1, 2, and 18 did not produce groundwater. Thirty-five groundwater samples were submitted to the laboratory for analysis for aromatic volatile organic compounds (BTEX) by EPA Method 602. Trace levels of analytes were detected in six of the submitted samples. One sample at location 4-1, had reported levels of benzene at 6.26 ug/L which is above the Vermont Groundwater Enforcement Standard of 5 ug/L for benzene. *By what method? regulated in state of VT*

Based on the aforementioned information it is our opinion that a low potential for adverse impact to groundwater quality exists at the subject property. It appears from the decrease in detected organic vapors of screened soils that excavation activities performed at the time of tank removal substantially volatilized petroleum vapors. Additional soil treatment is not recommended at this time. Furthermore, monitoring at groundwater monitoring well # 4-1 for aromatic volatile organic compounds by EPA Method 602 is recommended as the level of benzene was detected at 6.26 ug/L which is above the Vermont Groundwater Enforcement Standard for benzene.¹

¹ This executive summary is provided for convenience and should not be relied upon in place of the complete report.

2.0 BACKGROUND INFORMATION

Law Engineering and Environmental Services, Inc. (LAW) has completed an Initial Site Investigation of the Applegate Apartments located at 98 Orchard Road in Bennington, Vermont, in general accordance with LAW Proposal No. 97-4856E dated July 29, 1997. Our services were authorized by Mr. Edwin Wallace of W. Edwin Wallace & Associates on August 16, 1997. Background information has also been provided to LAW by Mr. Wallace on July 29, 1997. The initial site investigation was requested after the removal of 25 underground fuel oil tanks from the site on June 13, 1997. The Fuel Oil Underground Storage Tank Removal Report was completed by LAW on June 13, 1997, as documented under LAW Project No. 40583-6-2248.03.

LAW subcontracted Stevens and Associates Engineering, Inc. (SAE), a Vermont based engineering firm, to supervise the on-site activities. T & K Drilling Inc. installed the groundwater monitoring wells, and Eastern Analytical, Inc. conducted on site Geo-probe® soil screening activities.

Qualifications of the LAW and SAE environmental professionals involved in the Initial Site Investigation are included in Appendix C.

2.1 Site Location and Description

The subject property is located at 98 Orchard Road in Bennington, Vermont. The site consists of twenty-eight frame constructed, apartment buildings and adjacent parking and landscaped areas. Furnace Brook is adjacent to the south of the property. A Site Plan is attached in Appendix A.

Based on the information reported by LAW in the Fuel Oil Underground Storage Tank Removal Report, 25 underground storage tanks were excavated and removed from the site. Note that tanks No. 7 and 8 were located in the same excavation pit thus, there were a total of 24 excavation pits. The excavation numbers were chosen to correspond to the nearest apartment building number. Twelve 500 gallon tanks and thirteen 1,000 gallon tanks were removed from the site. Organic vapor analysis with PID of soil samples conducted at the time of the UST removal resulted in readings from 16 parts per million (ppm) to 580 ppm. Table 1 summarizes the number of the underground storage tanks (USTs), the corresponding excavation number, and the tank size.

2.2 Site History and Project Description

The objective of this Initial Site Investigation was to help determine the presence of adverse groundwater and soil impacts as a result of historical use of 25 underground fuel oil storage tanks (USTs) on site. To help assess possible petroleum product contamination, the following assessment tasks were performed:

- At least one groundwater monitoring well was installed to a depth of approximately 15 feet below land surface at each tank excavation site. Selected soil samples obtained from the well borings were collected for organic vapor analysis using a Gastech Organic Vapor Monitoring (OVM) flame ionization detector. Additional groundwater monitoring wells were installed in locations to help determine the extent of contamination in the vicinity of the former USTs.

- A total of 35 groundwater samples were collected and analyzed by LAW Engineering and Environmental Services National Laboratories for aromatic volatile organic compounds by EPA Method 602.
- Additional soil screening was conducted using a Geo-probe® system and boring to a depth of 15 feet below ground surface. Boring locations were chosen to help determine the extent of soil contamination in the vicinity of the former USTs.
- In accordance with VDEC requirements, a survey was performed of nearby receptors such as groundwater wells, lakes, streams, and wetlands. Water levels were also recorded for each groundwater monitoring well.

3.0 PHYSICAL SETTING

3.1 Receptors

A Survey of local receptors found that the Town of Bennington Public Water Supply is located 1.7 miles to the southeast. Also, according to the records of the State of Vermont, Water Supply Division, there are no private water wells within 0.5 miles of the site. Furnace Brook is adjacent to the property along the southern border of the site. There was no visual evidence of impact to Furnace Brook.

3.2 Contaminant

Twenty five underground storage tanks with No. 2 heating oil were removed from the site. Limited information was available on the exact contents of the tanks as they had been out of service for approximately 15 years. Product was present in all of the tanks prior to removal. Free product was not observed in the tank excavations.

3.3 Geologic and Hydrogeologic Information

Two distinct soil horizons were encountered. The first, or shallower, was a ubiquitous olive-brown silty clay or clayey silt, often with distinct silty varves. These horizons are interpreted to be lacustrine sediments deposited in the ice dammed post glacial Lake Vermont. Below this horizon were sediments which included coarse gravel strata, a horizon of light brown fine grained sand, and dark gray basal till stratum. These are interpreted to be late glacial sediments. The gravel and fine sand were presumably deposited as outwash plain sediments in the delta formed at the mouth of the glacial valley on Searsburg Mountain which contained the glacial equivalent of the Wallomasac River. In general, the gravel was found in the eastern end of the Applegate site, the sand was found in the center, and the dense basal till was found on the western end.

Although the silty clay often appeared to be water saturated, wells completed in this horizon did not produce groundwater. Groundwater was found in lower horizons consisting of either sand or gravel. Well number 8-1 was completed in a silt layer in the basal till. Generally, the basal till was dry.

4.0 FIELD ACTIVITIES

4.1 Groundwater Monitoring Well Installation

On August 25, 1997 SAE personnel proceeded to the site. A drill rig mounted split spoon was advanced to a depth of approximately fifteen feet below ground surface at the locations depicted on the attached Site Plan. Each well was installed so as to intercept at least three feet of the upper Surficial Aquifer and consisted of 2 inch diameter Schedule 40 PVC pipe with 0.01 inch screen slots. A medium gradation of silica sand was used as a filter pack and was installed between the outside of the well screen and the inside of the 10.5 inch diameter borehole annulus. This filter sand filled the borehole annulus to approximately one foot above the screened interval. The remaining annular space was filled with approximately two feet of bentonite chips and cement grouted to the surface. Protective flush-mount metal covers and locking caps were provided for each well. Approximately three casing volumes of groundwater were purged from the wells prior to sample collection.

4.2 Soil Screening

Continuous soil samples were visually observed in the field for uncharacteristic staining. Soil samples collected from the split spoon at regular intervals were placed in one quart Mason jars to a level of approximately one-half full. The soil samples in the Mason jars were then sealed using aluminum foil and the provided metal bands. Potential organic compounds in the samples were allowed to volatilize in the jars and reach equilibrium in the head space above the samples for a period of approximately ten minutes. The Gastech OVM probe was then inserted through the foil into the head space above the soil sample in each jar. The instrument response to the head space vapor concentration was then recorded in parts per million.

The procedure was repeated using a charcoal filter assembly on those samples with a response above 10 parts per million (ppm). The concentration of the volatile non-methane fraction was then obtained by subtracting the filtered response reading from the total (unfiltered) reading.

A total of 42 monitoring wells were installed. OVM readings for soil screening were generally 0 ppm. OVM readings from 10 of the monitoring well installations were higher than 0 ppm with the highest reading at 105 ppm. OVM soil screening results are summarized in Table 2, Summary of Groundwater Monitoring Well Installation, in Appendix A.

In addition to screening soils during the monitoring well installation, 23 Geo-probe® samples were taken. Each Geo-probe® boring was advanced to between 8 and 10 feet below ground surface. OVM monitoring did not detect organic vapor in these samples. The results of the Geo-probe® screening are summarized in Table 4, Summary of Geo-probe® Soil Sampling. Locations of the Geo-probe® borings are marked on the attached Site Plan.

4.3 Plume Definition

Free product and dispersed groundwater contamination was not detected at this site. Therefore, plume definition is not applicable to this site.

4.4 Contaminant Fate and Transport

The contaminant distribution in the subsurface appears to be limited to the soil that is very near the tank pits. Evidence supporting the migration of fuel oil from these tanks pits was not observed. Soil screening during groundwater monitoring well installation did not detect organic vapors above 40 ppm in 34 of the well locations. Six of the groundwater well locations had organic vapors detected in soil samples from 45 to 105 ppm. Additional Geo-probe® sampling in 23 locations did not detect organic vapors in the soil samples. Likewise, groundwater samples tested in the laboratory did not detect analytes in 29 of the 35 submitted samples. Five of the groundwater samples had trace levels of xylenes detected. One groundwater sample from well location 4-1 had detected levels of benzene at 6.26 ug/L which is above the State of Vermont Drinking Water Regulatory Action Limit of 5 ug/L for benzene. However, soil screening conducted at the time of tank closures did detect organic vapors in the tank excavation pits ranging from 16 ppm to 580 ppm. Thus, it appears that contaminant transport has been limited to the immediate vicinity of the former tanks.

4.5 Sampling

Groundwater samples were collected using polypropylene bailers. Each groundwater monitoring well was bailed approximately ten times prior to sample collection. Sample jars were provided by the laboratory. The samples were packed on ice and shipped by overnight courier to Law Engineering and Environmental Services National Laboratories in Pensacola, Florida. Sample collection activities were performed in accordance with our Comprehensive Quality Assurance Plan.

5.0 ANALYTICAL LABORATORY RESULTS

5.1 Laboratory Results

A total of 35 groundwater samples were submitted to the laboratory for analysis of aromatic volatile organic compounds by EPA Method 602. Six of the samples had detected analyte concentrations above the method limit of detection. The remaining 29 samples exhibited no detected analytes above the method detection limit. Results are summarized in Table 3, Summary of Analytical Groundwater Test Results, in Appendix A. Individual laboratory reports for each sample are attached in Appendix B.

5.2 Interpretation of Results

Petroleum product detected during tank removal as indicated by the PID readings above 40 ppm is likely to have substantially volatilized during the disturbance of the surrounding soil matrix at the time of tank removal. Moreover, subsequent soil vapor screening and groundwater laboratory analysis results do not indicate the presence of petroleum product constituents beyond the tank excavations. One groundwater sample from monitoring well # 4-1 had one detected analyte, benzene at 6.26 ug/L, above the Vermont Drinking Water Regulatory Action Limit for benzene of 5 ug/L. All other former tank sites do not appear to contain excessively contaminated soil or groundwater.

6.0 FINDINGS AND CONCLUSIONS

Law Engineering and Environmental Services, Inc. (LAW) has completed an Initial Site Investigation of the Applegate Apartments property located at 98 Orchard Road in Bennington, Vermont, in general accordance with Vermont State Agency of Natural Resources Waste Management Division, "Site Investigation Guidance", dated August 1996.

The Initial Site Investigation was requested after the removal of 25 Underground Fuel Oil Storage Tanks (USTs) from the site on June 13, 1997. PID readings from the soil screening analysis conducted at the time of the tank removal detected organic vapors from 16 to 580 ppm. Subsequent soil screening conducted during initial site investigation detected a significant reduction in organic vapor readings in the soil samples. Organic Vapor Monitoring (OVM) detected between 40 and 105 ppm in soils from 6 sampling locations and between 0 and 37 ppm for the remaining 57 sample locations. The reduction in detected organic vapors suggests that petroleum product in the soil may have volatilized during the disturbance of the surrounding soil matrix during the tank removal process.

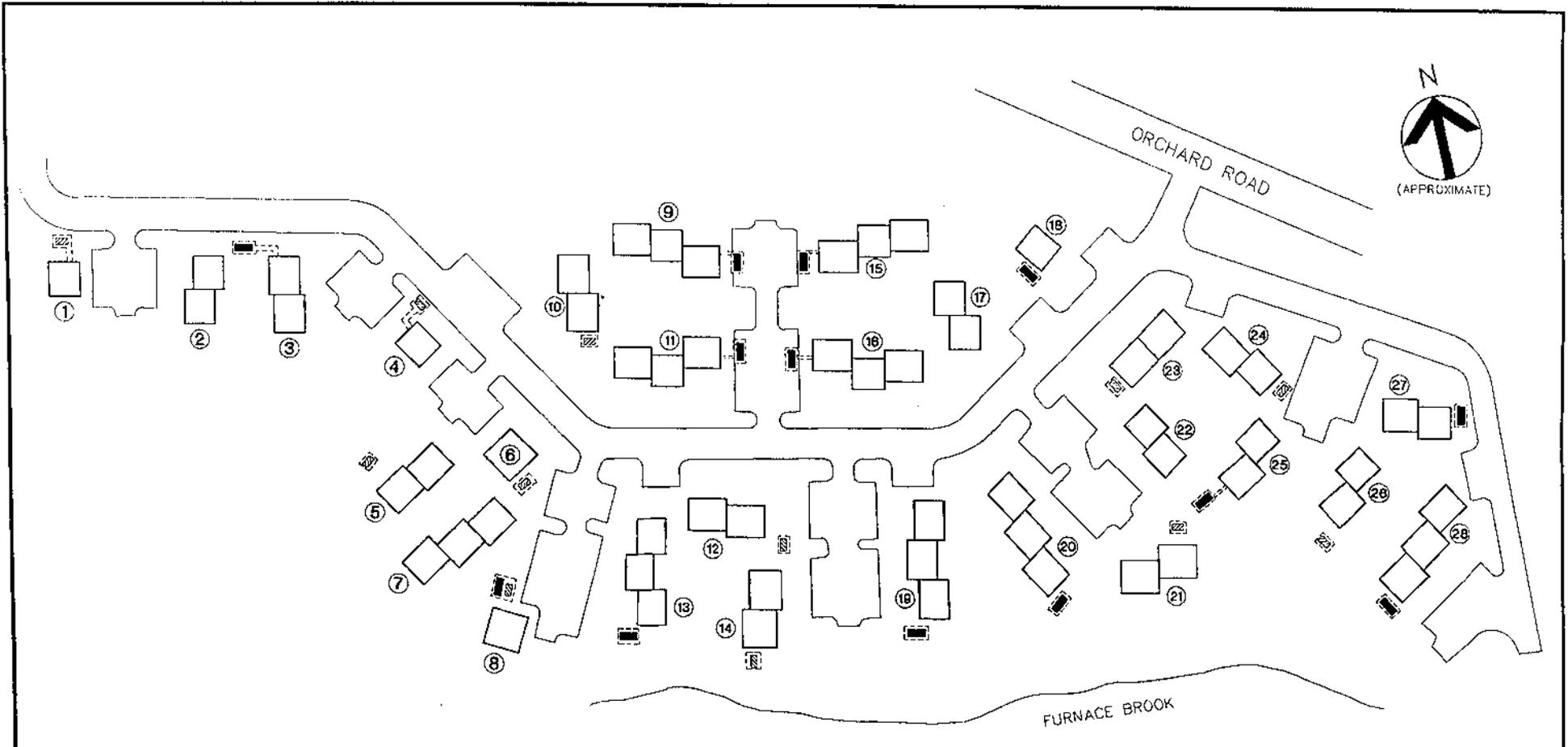
The Vermont State Agency of Natural Resources Waste Management Division's "Agency Guidelines for Petroleum Contaminated Soil and Debris" states that soil with PID readings from 40 to 400 ppm for fuel oil contaminated soils requires treatment on site. Contaminated soils detected on site during the initial site investigation did not have readings above 105 ppm. Therefore, it is recommended that the contaminated soils remain in place since sufficient groundwater data indicates that the impacted soil material will not be an active or future source of groundwater contamination. If contaminated soils are disturbed, all such materials must be disposed of in accordance with applicable state and federal guidelines and policies and can not be redistributed on-site.

A total of 42 groundwater monitoring wells were installed at the Applegate Apartment site with at least one well installed in the vicinity of each UST excavation pit. Monitoring wells installed at excavation pits 1, 2, and 18 did not produce groundwater. Thirty-five groundwater samples were submitted to the laboratory for analysis for aromatic volatile organic compounds (BTEX) by EPA Method 602. Trace levels of analytes were detected in six of the submitted samples. One sample at location 4-1, had reported levels of benzene at 6.26 ug/L which is above the Vermont Groundwater Enforcement Standard of 5 ug/L for benzene.

Based on the aforementioned information it is our opinion that a low potential for adverse impact to groundwater quality exists at the subject property. It appears from the decrease in detected OVM readings

of screened soils that excavation activities performed at the time of tank removal substantially volatilized petroleum vapors. Additional soil treatment is not recommended at this time. Furthermore, monitoring at groundwater monitoring well # 4-1 for aromatic volatile organic compounds by EPA Method 602 is recommended as the level of benzene was detected at 6.26 ug/L which is above the Vermont Groundwater Enforcement Standard for benzene.

APPENDIX A
FIGURES and TABLES



- LEGEND
- APPROXIMATE LIMITS OF EXCAVATION
 - 1000 GALLON UST
 - 500 GALLON UST
 - 5 BUILDING AND UST NUMBER

REFERENCE: Photocopy of Site Plan
 Provided by North Country Environmental Services
 on June 2, 1997
 (Provided Site Plan did not have a date, reference,
 scale or north arrow)

LAW ENGINEERING		
JACKSONVILLE, FLORIDA		
<u>SITE PLAN</u>		
Applegate Apartments 98 Orchard Road Bennington, Vermont		
DRAWN: JP	DATE: 6/11/97	SCALE: N.T.S.
CHECKED: REF	PROJ. NO. 40583-6-2248-03	

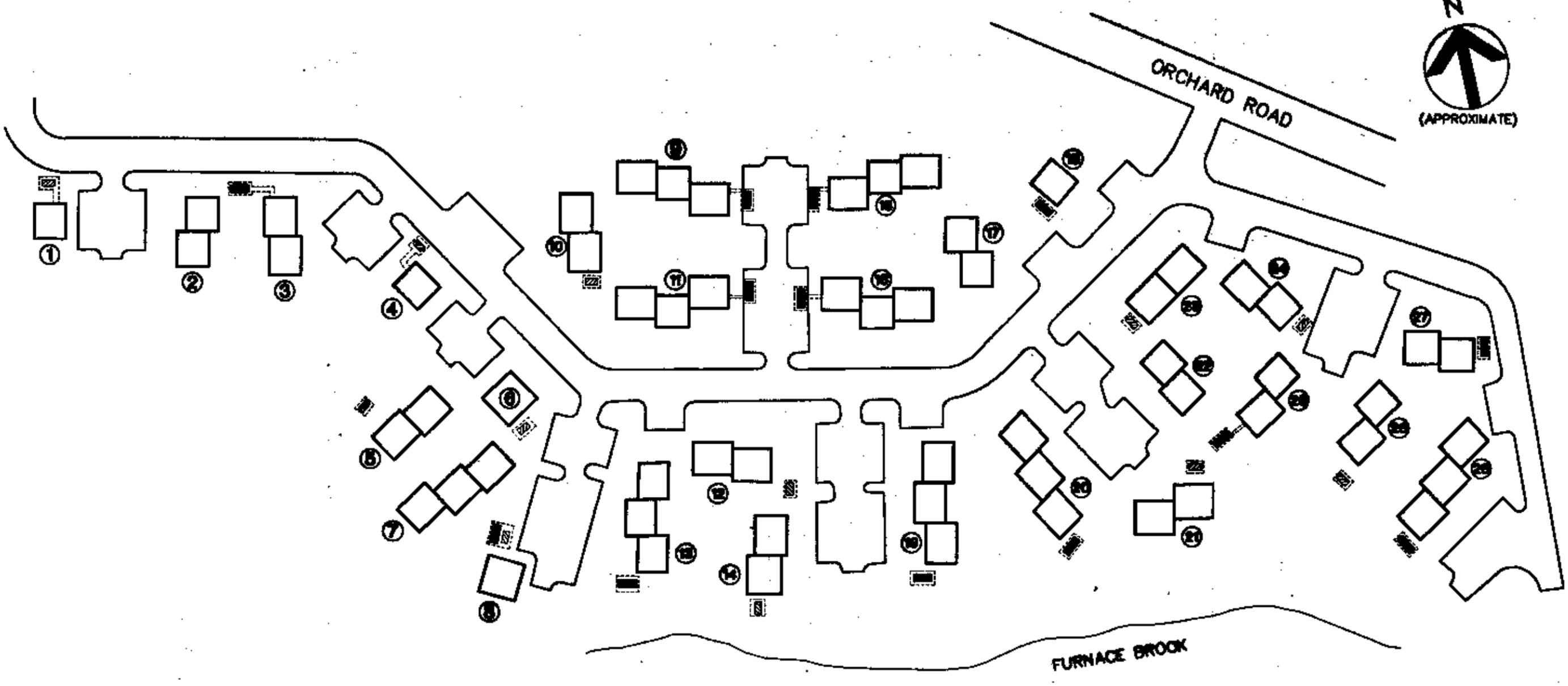


FIGURE 1

REFERENCE: Photocopy of Site Plan
 Provided by North Country Environmental Services
 on June 2, 1997
 (Provided Site Plan did not have a date, reference,
 scale or north arrow)

- LEGEND**
- APPROXIMATE LIMITS OF EXCAVATION
 - 1000 GALLON UST
 - ▨ 500 GALLON UST
 - ⑤ BUILDING AND UST NUMBER

 LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.		
SITE PLAN Applegate Apartments 98 Orchard Road Bennington, Vermont		
DRAWN: JP	DATE: 11/6/97	SCALE: N.T.S.
CHECKED: MS	PROJ. NO. 40544-7-7966-04	

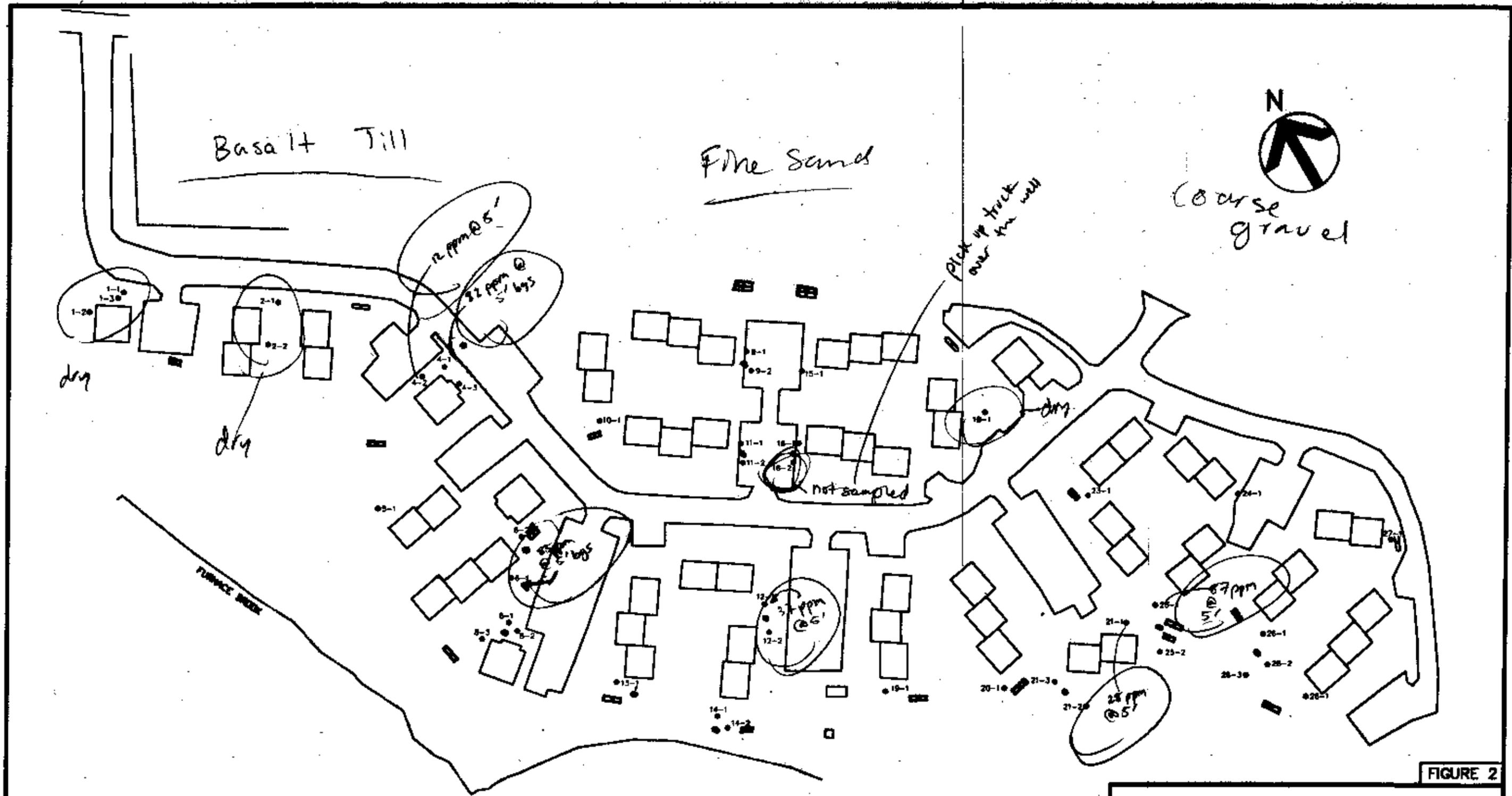


FIGURE 2

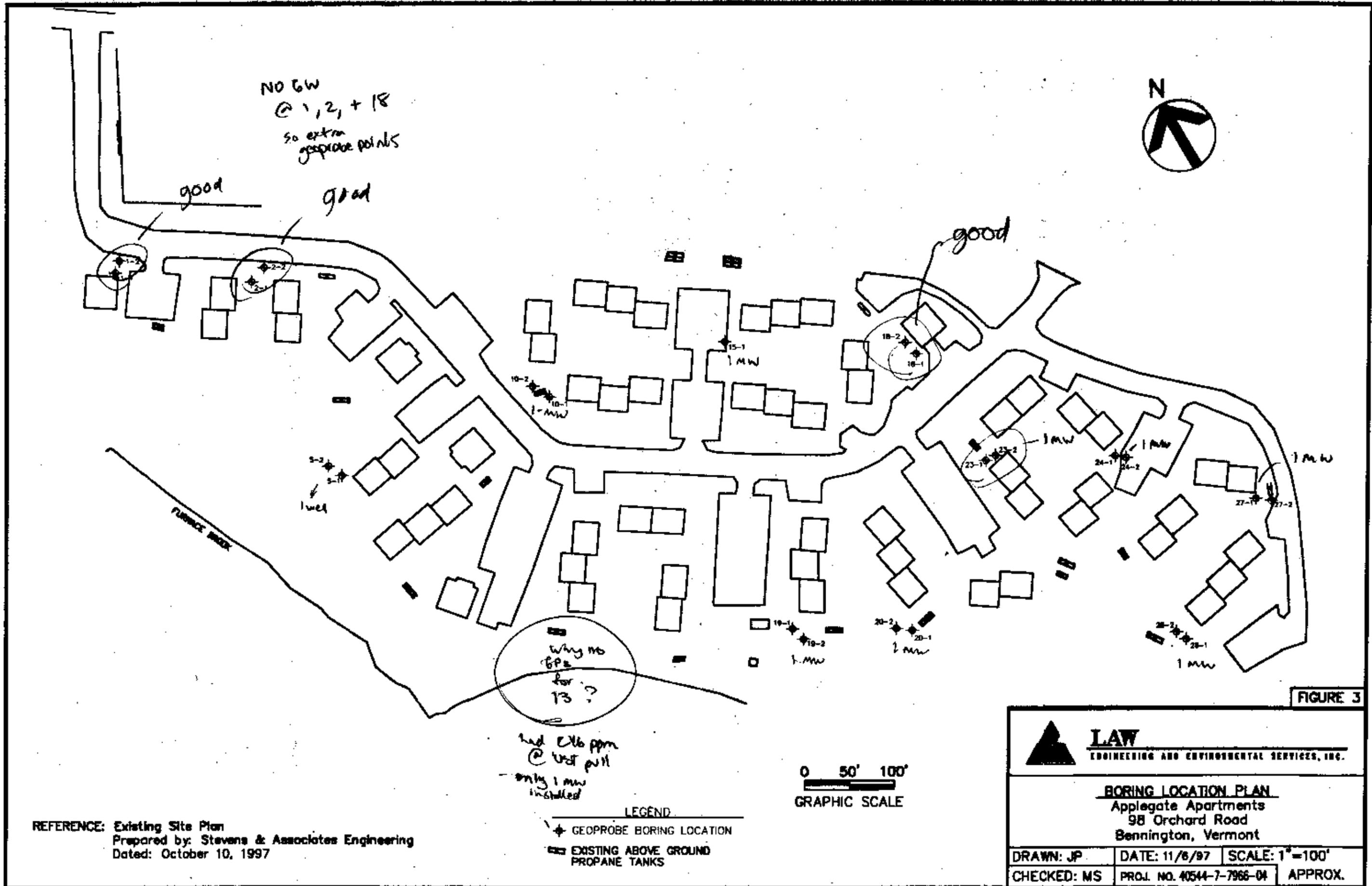
REFERENCE: Existing Site Plan
 Prepared by: Stevens & Associates Engineering
 Dated: October 10, 1997

- LEGEND
- MONITORING WELL LOCATION
 - EXISTING ABOVE GROUND PROPANE TANKS



MONITORING WELL LOCATION PLAN
 Applegate Apartments
 98 Orchard Road
 Bennington, Vermont

DRAWN: JF	DATE: 11/6/97	SCALE: 1"=100'
CHECKED: MS	PROJ. NO. 40544-7-7966-04	APPROX.



NO GW
@ 1, 2, + 18
so extra
geoprobe points

good

good

good

FURNACE BOX

why no
GPs
for
13?

had 216 ppm
@ test pull
only 1 mw
installed

LEGEND

- ◆ GEOPROBE BORING LOCATION
- EXISTING ABOVE GROUND PROPANE TANKS

0 50' 100'
GRAPHIC SCALE



FIGURE 3

<p>LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.</p>		
<p>BORING LOCATION PLAN Applegate Apartments 98 Orchard Road Bennington, Vermont</p>		
DRAWN: JP	DATE: 11/6/97	SCALE: 1"=100'
CHECKED: MS	PROJ. NO. 4054-7-7966-04	APPROX.

REFERENCE: Existing Site Plan
Prepared by: Stevens & Associates Engineering
Dated: October 10, 1997

Table 1
Summary of Fuel Oil UST Closure, June 13, 1997

UST #	Excavation #	Size (gallons)	Peak OVA Reading at time of tank removal (ppm)
1	1	500	199
2/3	2	1000	184
4	4	500	286
5	5	500	172
6	6	500	185
7	8	1000	181
8	8	500	181
9	9	1000	192
10	10	500	360
11	11	1000	300
12	12	500	209
13	13	1000	246
14	14	500	252
15	15	1000	174
16	16	1000	74
18	18	1000	317
19	19	1000	279
20	20	1000	290
21	21	500	580
23	23	500	205
24	24	500	19
25/22	25	1000	377
26	26	500	18
27	27	1000	16
28	28	1000	104

Total number of tanks removed = 25.

Total excavation sites = 24. (Tank 7 and tank 8 removed from one excavation site.)

Vermont State Agency of Natural Resources Waste Management Division soil guideline threshold limit is from 40-400 ppm by PID reading for fuel oils.

MWS Dry
 - 1-1, 1-2, 1-3
 - 2-1, 2-2
 - 18-1

not sampled
 16-2

November 5, 1997

Table 2
 Summary of Groundwater Monitoring Well Installation

• - indicates
 Gw sample
 collected

123 samples

Excavation #	Monitoring Well #	Depth of well (feet)	Groundwater Present	Depth to water (feet)	OVM Reading of soil at 5 ft. intervals from well borings (ppm)
1	1-1	20	No	NA	① 25, 84, 0, 0, 0
	1-2	25	No	NA	0, 0
	1-3	27	No	NA	not sampled
2	2-1	20	No	NA	② 0, 62, 0, 0
	2-2	20	No	NA	0, 0, 0, 0
4	4-1	20	Yes		③ 82, 105, 32, 0
	4-2	20	Yes	18.36	④ 12, 0, 0, 0
	4-3	20	Yes	17.10	0, 0, 0
5	5-1	15	Yes		0, 0, 0
6	6-1	15	Yes	9	⑤ 85, 21, 0
	6-2	15	Yes	9.82	0, 0, 0
8	8-1	13	Yes		⑥ 0, 32, 0
	8-2	15	Yes	7.5	not sampled
	8-3	15	Yes	5.85	0, 0, 0
9	9-1	15	Yes		0, 0, 0
	9-2	15	Yes	8.05	0, 0
10	10-1	20	Yes	17.5	⑦ 45, 0, 0
11	11-1	15	Yes		0, 0, 0
	11-2	15	Yes	8.6	0, 0
12	12-1	15	Yes	9	⑧ 37, 0, 0
	12-2	15	Yes	5.71	0, 0
13	13-1	15	Yes		0, 4, 0
14	14-1	15	Yes	8	0, 0
	14-2	15	Yes	7.81	0, 8
15	15-1	15	Yes		0, 8, 0
16	16-1	15	Yes		0, 0, 0
	16-2	15	Yes	9	0, 0
18	18-1	15	No	NA	0, 0, 0, 0
19	19-1	15	Yes	9	0, 0, 0
20	20-1	20	Yes	15	0, 0, 0, 0
21	21-1	23	Yes	15.1	⑨ 28, 16, 0
	21-2	15	Yes	15.25	0, 0, 0
	21-3	15	Yes	14.43	0, 0, 0
23	23-1	15	Yes		0, 0, 0, 0
24	24-1	15	Yes	23.6	0, 0, 0, 0
25	25-1	25	Yes	16.3	⑩ 87, 37, 0
	25-2	15	Yes	14.9	0, 0, 0
26	26-1	22	Yes	14.0	0, 0, 0
	26-2	15	Yes	12.65	0, 0, 0
	26-3	15	Yes	12.40	0
27	27-1	22.5	Yes	15.8	0, 0, 0, 0
28	28-1	17.5	Yes	11.7	0, 0, 0

15-1, 15-2, 15-3

• - No Gw Sample collected

Table 3
Summary of Analytical Groundwater Test Results

Monitoring Well #	Parameter	Result
4-1	Benzene	6.26 ug/L
	Ethylbenzene	4.30 ug/L
	Total Xylenes	17.4 ug/L
4-2	Ethylbenzene	2.36 ug/L
	Total Xylenes	6.39 ug/L
4-3	Methyl tert-butyl ether	0.947 ug/L
5-1		None Detected
6-1		None Detected
6-2		None Detected
8-1		None Detected
8-2		None Detected
8-3		None Detected
9-1		None Detected
9-2		None Detected
10-1		None Detected
11-1		None Detected
11-2		None Detected
12-1		None Detected
12-2		None Detected
13-1		None Detected
14-1	Total Xylenes	3.71 ug/L
14-2		None Detected
15-1		None Detected
16-1		None Detected
19-1		None Detected
20-1		None Detected
21-1		None Detected
21-2		None Detected
21-3		None Detected
23-1		None Detected
24-1		None Detected
25-1	Total Xylenes	4.20 ug/L
25-2		None Detected
26-1	Total Xylenes	2.92 ug/L
26-2		None Detected
26-3		None Detected
27-1		None Detected
28-1		None Detected

Table 4
Summary of Geo-Probe Soil Sampling

Excavation #	Soil Boring #	Depth of boring (feet)	OVM Reading of soil from borings (ppm)
1	SB1-1	10	None Detected
	SB1-2	10	None Detected
2	SB2-1	10	None Detected
	SB2-2	10	None Detected
5	SB5-1	8	None Detected
	SB5-2	8	None Detected
10	SB10-1	8	None Detected
	SB10-2	8	None Detected
15	SB15-1	8	None Detected
18	SB18-1	10	None Detected
	SB18-2	10	None Detected
19	SB19-1	8	None Detected
	SB19-2	8	None Detected
20	SB20-1	8	None Detected
	SB20-2	8	None Detected
23	SB23-1	8	None Detected
	SB23-2	8	None Detected
24	SB24-1	8	None Detected
	SB24-2	8	None Detected
27	SB27-1	8	None Detected
	SB27-2	8	None Detected
28	SB28-1	8	None Detected
	SB28-2	8	None Detected

- continuous sampling ?

- (2) 4' samples

→ surface, 4', 8' samples

APPENDIX B
LABORATORY RESULTS

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/08/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

Station ID: SITE 4, MW 4-1
 Lab ID: AB28451
 Collector: S. BRACKETT

--- Sample Information ---

Date Sampled: 09/02/97
 Time Sampled: 08:30
 Log In Date: 09/03/97
 Log In Time: 10:16

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water	ug/L	SW8020			09/05/97	AG
Benzene	ug/L	SW8020	1.00	6.26	09/05/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Ethylbenzene	ug/L	SW8020	2.00	4.30	09/05/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	17.4	09/05/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/05/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	87	09/05/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	87	09/05/97	AG

Remarks:

Signed: Keith R. Greene
 for
 Keith R. Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/08/97

--- Project Information ---

Page 1

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
3901 Carmichael Avenue
Jacksonville, FL 32207

Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: SITE 5, MW 5-1
Lab ID: AB28452
Collector: S. BRACKETT

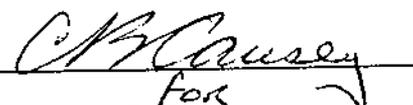
Date Sampled: 09/02/97
Time Sampled: 08:30
Log In Date: 09/03/97
Log In Time: 10:16

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles water ug/L	ug/L	SW8020			09/05/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/05/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/05/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	91	09/05/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	91	09/05/97	AG

Remarks:

Signed: 
for
Keith R. Greene
Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/08/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: SITE 8, MW 8-1
 Lab ID: AB28453
 Collector: S. BRACKETT

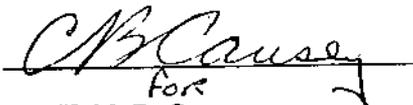
Date Sampled: 09/02/97
 Time Sampled: 08:30
 Log In Date: 09/03/97
 Log In Time: 10:16

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water	ug/L	SW8020			09/06/97	NC
Benzene	ug/L	SW8020	1.00	Not Det	09/06/97	NC
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/06/97	NC
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/06/97	NC
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/06/97	NC
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/06/97	NC
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/06/97	NC
Toluene	ug/L	SW8020	2.00	Not Det	09/06/97	NC
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/06/97	NC
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/06/97	NC
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	92	09/06/97	NC
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	92	09/06/97	NC

Remarks:

Signed: 
 for
 Keith R. Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/08/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1

Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: SITE 9, MW 9-1
 Lab ID: AB28455
 Collector: S. BRACKETT

Date Sampled: 09/02/97
 Time Sampled: 08:30
 Log In Date: 09/03/97
 Log In Time: 10:16

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water	ug/L	SW8020			09/05/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/05/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/05/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	92	09/05/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	93	09/05/97	AG

Remarks:

Signed:



Keith R. Greene

Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/08/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 7901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1

Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: SITE 11, MW 11-1
 Lab ID: AB28456
 Collector: S. BRACKETT

Date Sampled: 09/02/97
 Time Sampled: 08:30
 Log In Date: 09/03/97
 Log In Time: 10:16

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water ug/L	ug/L	SW8020			09/06/97	NC
Benzene	ug/L	SW8020	1.00	Not Det	09/06/97	NC
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/06/97	NC
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/06/97	NC
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/06/97	NC
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/06/97	NC
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/06/97	NC
Toluene	ug/L	SW8020	2.00	Not Det	09/06/97	NC
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/06/97	NC
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/06/97	NC
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	95	09/06/97	NC
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	98	09/06/97	NC

Remarks:

Signed: Keith R. Greene
 for
 Keith R. Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/08/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1

Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: SITE 13, MW 13-1
 Lab ID: AB28454
 Collector: S. BRACKETT

Date Sampled: 09/02/97
 Time Sampled: 08:30
 Log In Date: 09/03/97
 Log In Time: 10:16

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water	ug/L	SW8020			09/05/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/05/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/05/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	91	09/05/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	92	09/05/97	AG

Remarks:

Signed: *Keith R. Greene*
 for
 Keith R. Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/08/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 1901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: SITE 15, MW 15-1
 Lab ID: AB28459
 Collector: S. BRACKETT

Date Sampled: 09/02/97
 Time Sampled: 08:30
 Log In Date: 09/03/97
 Log In Time: 10:16

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water	ug/L	SW8020			09/05/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/05/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/05/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	80	09/05/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	83	09/05/97	AG

Remarks:

Signed: *Keith R. Greene*
 for
 Keith R. Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/08/97

--- Project Information ---

Page 1

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
3901 Carmichael Avenue
Jacksonville, FL 32207

Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: SITE 16, MW 16-1
Lab ID: AB28457
Collector: S. BRACKETT

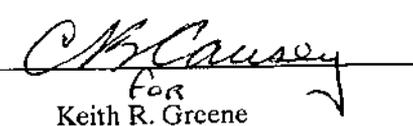
Date Sampled: 09/02/97
Time Sampled: 08:30
Log In Date: 09/03/97
Log In Time: 10:16

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water ug/L	ug/L	SW8020			09/05/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/05/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/05/97	AG
sur-Fluorobenzene IR 44-165	ug/L	SW8020	0	91	09/05/97	AG
sur-4Bromofluorobenzene IR 48-138	ug/L	SW8020	0	93	09/05/97	AG

Remarks:

Signed: 
for
Keith R. Greene
Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/08/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: SITE 23, MW 23-1
 Lab ID: AB28458
 Collector: S. BRACKETT

Date Sampled: 09/02/97
 Time Sampled: 08:30
 Log In Date: 09/03/97
 Log In Time: 10:16

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water	ug/L	SW8020			09/05/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/05/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/05/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	92	09/05/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	91	09/05/97	AG

Remarks:

Signed: *Keith R. Greene*
 for
 Keith R. Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/08/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: SITE 24, MW 24-1
 Lab ID: AB28450
 Collector: S. BRACKETT

Date Sampled: 09/02/97
 Time Sampled: 08:30
 Log In Date: 09/03/97
 Log In Time: 10:16

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water	ug/L	SW8020			09/05/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/05/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/05/97	AG
o-Chloro-Fluorobenzene %R 44-165	ug/L	SW8020	0	92	09/05/97	AG
o-Chloro-4-Bromofluorobenzene %R 48-138	ug/L	SW8020	0	93	09/05/97	AG

Remarks:

Signed: *Keith R. Greene*
 FOR
 Keith R. Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/09/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: TRIP BLANK
 Lab ID: AB28460
 Collector: S. BRACKETT

Date Sampled: 09/02/97
 Time Sampled: 00:00
 Log In Date: 09/04/97
 Log In Time: 10:19

--- Test Information ---

Parameter	Units	Method	Det Lim	Result	Analysis	
					Date	Tech
622-8020 Volatiles Water ug/L	ug/L	SW8020			09/05/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/05/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/05/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/05/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	90	09/05/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	91	09/05/97	AG

Remarks:

Signed:

CR Causey
 for
 Keith R. Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/16/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1

Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: MW 6-1
 Lab ID: AB28738
 Collector: LISTED ON COC

Date Sampled: 09/04/97
 Time Sampled: 16:50
 Log In Date: 09/06/97
 Log In Time: 14:19

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water ug/L	ug/L	SW8020			09/16/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/16/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/16/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/16/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	95	09/16/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	94	09/16/97	AG

Remarks:

Signed:

Keith R. Greene
 Keith R. Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

09/16/97

--- Project Information ---

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
3901 Carmichael Avenue
Jacksonville, FL 32207

Page 1
Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: MW 10-1
Lab ID: AB28737
Collector: LISTED ON COC

Date Sampled: 09/04/97
Time Sampled: 17:10
Log In Date: 09/06/97
Log In Time: 14:19

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water ug/L	ug/L	SW8020			09/16/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/16/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/16/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/16/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	85	09/16/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	86	09/16/97	AG

Remarks:

Signed: Keith R. Greene
for
Keith R. Greene
Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/16/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

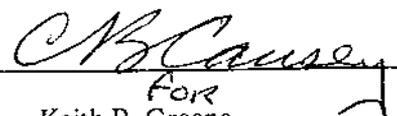
Station ID: MW 12-1
 Lab ID: AB28736
 Collector: LISTED ON COC

Date Sampled: 09/04/97
 Time Sampled: 16:30
 Log In Date: 09/06/97
 Log In Time: 14:19

--- Test Information ---

Parameter	Units	Method	Det Lim	Result	Analysis	
					Date	Tech
622-8020 Volatiles Water ug/L	ug/L	SW8020			09/16/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/16/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/16/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/16/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/16/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	89	09/16/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	92	09/16/97	AG

Remarks:

Signed: 
 For
 Keith R. Greenc
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

09/16/97

--- Project Information ---

Page 1

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
901 Carmichael Avenue
Jacksonville, FL 32207

Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: MW 14-1
Lab ID: AB28735
Collector: LISTED ON COC

Date Sampled: 09/04/97
Time Sampled: 16:20
Log In Date: 09/06/97
Log In Time: 14:19

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water ug/L	ug/L	SW8020			09/15/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/15/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	3.71	09/15/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/15/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	92	09/15/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	90	09/15/97	AG

Remarks:

Signed:

Keith R. Greene
FOR

Keith R. Greene

Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

09/16/97

--- Project Information ---

Page 1

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
901 Carmichael Avenue
Jacksonville, FL 32207

Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: MW 19-1
Lab ID: AB28734
Collector: LISTED ON COC

Date Sampled: 09/04/97
Time Sampled: 16:05
Log In Date: 09/06/97
Log In Time: 14:19

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water	ug/L	SW8020			09/15/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/15/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/15/97	AG
Sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	85	09/15/97	AG
Sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	84	09/15/97	AG

Remarks:

Signed:

Keith R. Greene
FOR
Keith R. Greene

Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

09/16/97

--- Project Information ---

Page 1

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
901 Carmichael Avenue
Jacksonville, FL 32207

Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: MW 20-1
Lab ID: AB28733
Collector: LISTED ON COC

Date Sampled: 09/04/97
Time Sampled: 15:20
Log In Date: 09/06/97
Log In Time: 14:19

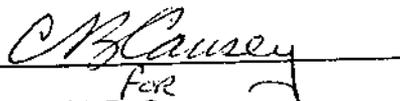
--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water ug/L	ug/L	SW8020			09/15/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/15/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/15/97	AG
sur-Fluorobenzene &R 44-165	ug/L	SW8020	0	87	09/15/97	AG
sur-4Bromofluorobenzene &R 48-138	ug/L	SW8020	0	87	09/15/97	AG

Remarks:

Signed:



Keith R. Greene

Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/16/97

--- Project Information ---

Page 1

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 901 Carmichael Avenue
 Jacksonville, FL 32207

Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: MW 21-1
 Lab ID: AB28732
 Collector: LISTED ON COC

Date Sampled: 09/04/97
 Time Sampled: 15:10
 Log In Date: 09/06/97
 Log In Time: 14:19

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water	ug/L	SW8020			09/15/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/15/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/15/97	AG
Sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	89	09/15/97	AG
Sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	90	09/15/97	AG

Remarks:

Signed: CB Causey
 FOR
 Keith R. Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

09/16/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: MW 25-1
 Lab ID: AB28731
 Collector: LISTED ON COC

Date Sampled: 09/04/97
 Time Sampled: 14:50
 Log In Date: 09/06/97
 Log In Time: 14:19

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water	ug/L	SW8020			09/15/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/15/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	4.20	09/15/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/15/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	84	09/15/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	85	09/15/97	AG

Remarks:

Signed: CB Causey
 FOR
 Keith R. Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

09/16/97

--- Project Information ---

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
901 Carmichael Avenue
Jacksonville, FL 32207

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Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: MW 26-1
Lab ID: AB28730
Collector: LISTED ON COC

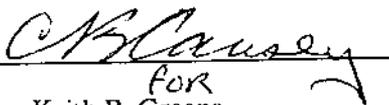
Date Sampled: 09/04/97
Time Sampled: 14:04
Log In Date: 09/06/97
Log In Time: 14:19

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water ug/L	ug/L	SW8020			09/15/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/15/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	2.92	09/15/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/15/97	AG
Sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	82	09/15/97	AG
Sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	81	09/15/97	AG

Remarks:

Signed: 
FOR
Keith R. Greene
Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

09/16/97

--- Project Information ---

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
901 Carmichael Avenue
Jacksonville, FL 32207

Page 1
Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: MW 27-1
Lab ID: AB28728
Collector: LISTED ON COC

Date Sampled: 09/04/97
Time Sampled: 13:49
Log In Date: 09/06/97
Log In Time: 14:19

--- Test Information ---

Parameter	Units	Method	Det Lim	Result	Analysis	
					Date	Tech
622-8020 Volatiles Water ug/L	ug/L	SW8020			09/15/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	09/15/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	09/15/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	09/15/97	AG
Sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	92	09/15/97	AG
Sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	93	09/15/97	AG

Remarks:

Signed: Keith R. Greene
for
Keith R. Greene
Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

09/16/97

--- Project Information ---

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
3901 Carmichael Avenue
Jacksonville, FL 32207

Page 1
Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: MW 28-1
Lab ID: AB28729
Collector: LISTED ON COC

Date Sampled: 09/04/97
Time Sampled: 14:30
Log In Date: 09/06/97
Log In Time: 14:19

--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
622-8020 Volatiles Water	ug/L	SW8020			08/15/97	AG
Benzene	ug/L	SW8020	1.00	Not Det	08/15/97	AG
Chlorobenzene	ug/L	SW8020	2.00	Not Det	08/15/97	AG
1,2-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	08/15/97	AG
1,3-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	08/15/97	AG
1,4-Dichlorobenzene	ug/L	SW8020	2.00	Not Det	08/15/97	AG
Ethylbenzene	ug/L	SW8020	2.00	Not Det	08/15/97	AG
Toluene	ug/L	SW8020	2.00	Not Det	08/15/97	AG
Xylenes (Total)	ug/L	SW8020	2.00	Not Det	08/15/97	AG
Methyl tert-butyl ether	ug/L	SW8020	0.500	Not Det	08/15/97	AG
sur-Fluorobenzene %R 44-165	ug/L	SW8020	0	91	08/15/97	AG
sur-4Bromofluorobenzene %R 48-138	ug/L	SW8020	0	90	08/15/97	AG

Remarks:

Signed:

CB Clousey

For
Keith R. Greene

Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
3901 Carmichael Avenue
Jacksonville, FL 32207

Page 1
Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 4-2-1
Lab ID: AB31958
Collector: LISTED ON COC

Date Sampled: 10/02/97
Time Sampled: 11:55
Log In Date: 10/04/97
Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		<u>TITLE</u>	10/08/97	AG
Benzene	ug/L	EPA 602	1.00	Not Det	10/08/97	AG
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Ethylbenzene	ug/L	EPA 602	2.00	2.36	10/08/97	AG
Toluene	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Xylenes (total)	ug/L	EPA 602	2.00	6.39	10/08/97	AG
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/08/97	AG
sur-Fluorobenzene %R 44-165	ug/L	EPA 602	0	85	10/08/97	AG

Remarks:

Signed: CK Causey
for
Keith R Greene
Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 4-3-1
 Lab ID: AB31959
 Collector: LISTED ON COC

Date Sampled: 10/02/97
 Time Sampled: 12:10
 Log In Date: 10/04/97
 Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		<u>TITLE</u>	10/08/97	AG
Benzene	ug/L	EPA 602	1.00	Not Det	10/08/97	AG
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Toluene	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Methyl tert-butyl ether	ug/L	EPA 602	0.500	0.947	10/08/97	AG
sur-Fluorobenzene &R 44-165	ug/L	EPA 602	0	88	10/08/97	AG

Remarks:

Signed: CB Causey
 FOR
 Keith R Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 6-2-1
 Lab ID: AB31955
 Collector: LISTED ON COC

Date Sampled: 10/02/97
 Time Sampled: 11:29
 Log In Date: 10/04/97
 Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		_TITLE_	10/09/97	JW
Benzene	ug/L	EPA 602	1.00	Not Det	10/09/97	JW
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Toluene	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/09/97	JW
sur-Fluorobenzene %R 44-165	ug/L	EPA 602	0	98	10/09/97	JW

Remarks:

Signed: *CB Causey*
 For
 Keith R Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 8-2-1
 Lab ID: AB31956
 Collector: LISTED ON COC

Date Sampled: 10/02/97
 Time Sampled: 11:33
 Log In Date: 10/04/97
 Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		<u> TITLE </u>	10/09/97	JW
Benzene	ug/L	EPA 602	1.00	Not Det	10/09/97	JW
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Toluene	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/09/97	JW
sur-Fluorobenzene 3R 44-165	ug/L	EPA 602	0	86	10/09/97	JW

Remarks:

Signed: *CB Causey*
 FOR
 Keith R Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

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--- Project Information ---

Page 1

Ms. Mary Shumway

Project Name: APPLE

Law Eng & Envir Services, Inc.

Applegate Apts. 40544-7-7966

3901 Carmichael Avenue

Jacksonville, FL 32207

--- Sample Information ---

Date Sampled: 10/02/97

Station ID: 8-3-1

Time Sampled: 11:40

Lab ID: AB31957

Log In Date: 10/04/97

Collector: LISTED ON COC

Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		_TITLE_	10/09/97	JW
Benzene	ug/L	EPA 602	1.00	Not Det	10/09/97	JW
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Toluene	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/09/97	JW
sur-Fluorobenzene %R 44-165	ug/L	EPA 602	0	92	10/09/97	JW

Remarks:

Signed: CB Causey
 FOR
 Keith R Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 9-2-1
 Lab ID: AB31953
 Collector: LISTED ON COC

Date Sampled: 10/02/97
 Time Sampled: 00:00
 Log In Date: 10/04/97
 Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		<u> TITLE </u>	10/09/97	JW
Benzene	ug/L	EPA 602	1.00	Not Det	10/09/97	JW
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Toluene	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/09/97	JW
sur-Fluorobenzene %R 44-165	ug/L	EPA 602	0	87	10/09/97	JW

Remarks:

Signed: CK Clousey
 for
 Keith R Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1

Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 11-2-1
 Lab ID: AB31954
 Collector: LISTED ON COC

Date Sampled: 10/02/97
 Time Sampled: 00:00
 Log In Date: 10/04/97
 Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC	ug/L	EPA 602		<u>TITLE</u>	10/09/97	JW
Benzene	ug/L	EPA 602	1.00	Not Det	10/09/97	JW
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Toluene	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/09/97	JW
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/09/97	JW
sur-Fluorobenzene %R 44-165	ug/L	EPA 602	0	81	10/09/97	JW

Remarks:

Signed: CB Causey
 for
 Keith R Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 12-2-1
 Lab ID: AB31951
 Collector: LISTED ON COC

Date Sampled: 10/02/97
 Time Sampled: 10:56
 Log In Date: 10/04/97
 Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		<u> TITLE </u>	10/08/97	JW
Benzene	ug/L	EPA 602	1.00	Not Det	10/08/97	JW
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Toluene	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/08/97	JW
sur-Fluorobenzene %R 44-165	ug/L	EPA 602	0	95	10/08/97	JW

Remarks:

Signed: CB Clausey
 FOR
 Keith R Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
3901 Carmichael Avenue
Jacksonville, FL 32207

Page 1

Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 14-2-1
Lab ID: AB31952
Collector: LISTED ON COC

Date Sampled: 10/02/97
Time Sampled: 11:10
Log In Date: 10/04/97
Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		<u>TITLE</u>	10/08/97	JW
Benzene	ug/L	EPA 602	1.00	Not Det	10/08/97	JW
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Toluene	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/08/97	JW
sur-Fluorobenzene R 44-165	ug/L	EPA 602	0	95	10/08/97	JW

Remarks:

Signed: Keith R Greene
For
Keith R Greene
Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1

Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 21-2-1
 Lab ID: AB31960
 Collector: LISTED ON COC

Date Sampled: 10/02/97
 Time Sampled: 10:26
 Log In Date: 10/04/97
 Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		<u> </u> _TITLE_	10/08/97	AG
Benzene	ug/L	EPA 602	1.00	Not Det	10/08/97	AG
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Toluene	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/08/97	AG
sur-Fluorobenzene %R 44-165	ug/L	EPA 602	0	84	10/08/97	AG

Remarks:

Signed: *CR* *Greene*
 for
 Keith R Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 21-3-1
 Lab ID: AB31961
 Collector: LISTED ON COC

Date Sampled: 10/02/97
 Time Sampled: 10:31
 Log In Date: 10/04/97
 Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		_TITLE_	10/08/97	AG
Benzene	ug/L	EPA 602	1.00	Not Det	10/08/97	AG
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Toluene	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/08/97	AG
sur-Fluorobenzene %R 44-165	ug/L	EPA 602	0	86	10/08/97	AG

Remarks:

Signed: CR Greaney
 for
 Keith R Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
3901 Carmichael Avenue
Jacksonville, FL 32207

Page 1
Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 25-2-1
Lab ID: AB31950
Collector: LISTED ON COC

Date Sampled: 10/02/97
Time Sampled: 10:09
Log In Date: 10/04/97
Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		<u>TITLE</u>	10/08/97	JW
Benzene	ug/L	EPA 602	1.00	Not Det	10/08/97	JW
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Toluene	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/08/97	JW
sur-Fluorobenzene &R 44-165	ug/L	EPA 602	0	89	10/08/97	JW

Remarks:

Signed: Keith R Greene
for
Keith R Greene
Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
3901 Carmichael Avenue
Jacksonville, FL 32207

Page 1

Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 26-2-1
Lab ID: AB31948
Collector: LISTED ON COC

Date Sampled: 10/02/97
Time Sampled: 09:56
Log In Date: 10/04/97
Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		<u> TITLE </u>	10/08/97	JW
Benzene	ug/L	EPA 602	1.00	Not Det	10/08/97	JW
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Toluene	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/08/97	JW
sur-Fluorobenzene %R 44-165	ug/L	EPA 602	0	89	10/08/97	JW

Remarks:

Signed: K R Causey
 for
 Keith R Greene
 Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
Law Eng & Envir Services, Inc.
3901 Carmichael Avenue
Jacksonville, FL 32207

Page 1

Project Name: APPLE
Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: 26-3-1
Lab ID: AB31949
Collector: LISTED ON COC

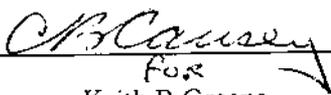
Date Sampled: 10/02/97
Time Sampled: 10:02
Log In Date: 10/04/97
Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		<u>TITLE</u>	10/08/97	JW
Benzene	ug/L	EPA 602	1.00	Not Det	10/08/97	JW
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Toluene	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/08/97	JW
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/08/97	JW
sur-Fluorobenzene %R 44-165	ug/L	EPA 602	0	92	10/08/97	JW

Remarks:

Signed: 
For
Keith R Greene
Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

10/10/97

--- Project Information ---

Ms. Mary Shumway
 Law Eng & Envir Services, Inc.
 3901 Carmichael Avenue
 Jacksonville, FL 32207

Page 1
 Project Name: APPLE
 Applegate Apts. 40544-7-7966

--- Sample Information ---

Station ID: TRIP BLANK
 Lab ID: AB31963
 Collector: LISTED ON COC

Date Sampled: 10/02/97
 Time Sampled: 00:00
 Log In Date: 10/04/97
 Log In Time: 09:48

--- Test Information ---

Analysis

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-602 VOA by GC ug/L	ug/L	EPA 602		<u> TITLE </u>	10/08/97	AG
Benzene	ug/L	EPA 602	1.00	Not Det	10/08/97	AG
Isopropylether	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Ethylbenzene	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Toluene	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Xylenes (total)	ug/L	EPA 602	2.00	Not Det	10/08/97	AG
Methyl tert-butyl ether	ug/L	EPA 602	0.500	Not Det	10/08/97	AG
sur-Fluorobenzene %R 44-165	ug/L	EPA 602	0	88	10/08/97	AG

Remarks:

Signed: CB Causey
 FOR
 Keith R Greene
 Quality Control Manager



PROJECT NAME: Apple Gate PROJECT NO.: 40544-7-9966 PHASE NO.: _____ TASK NO.: _____

PROJECT MANAGER: Daryl Setser TAT: (2WK) _____ HC LAB TAT: (1 WK) _____ RUSH _____ (INCURS RUSH FEE)

SAMPLE I.D.: _____ COC NO.: 12852

TOTAL		DISSOLVED
METALS	ICP/FLAME	AA-GF
ELEMENT		
ALUMINUM	6010	----
ANTIMONY	6010	7041
ARSENIC	6010	7060
BARIUM	6010	----
BERYLLIUM	6010/7090	7091
CADMIUM	6010/7130	7131
CALCIUM	6010	----
CHROMIUM	6010/7190	7191
COBALT	6010	7201
COPPER	6010/7210	----
LEAD	6010/7420	7421
MAGNESIUM	6010	----
MANGANESE	6010/7480	----
MERCURY	7470/7471	AA Cold Vapor
MOLYBDENUM	6010	----
NICKEL	6010/7520	7521
POTASSIUM	6010	----
SILVER	6010/7760	7761
SELENIUM	6010	7740
SODIUM	6010	----
STRONTIUM	6010	----
THALLIUM	6010	7841
TIN	6010	----
TITANIUM	6010	----
VANADIUM	6010	7911
ZINC	6010/7950	----

GC/MS	WATER	SOIL
VOLATILE ORGANICS	8240/624	8240
VOLATILE ORGANICS	8260	8260
BASE NEUTRAL EXTRACTABLES	8270/625	8270
ACID EXTRACTABLES	8270/625	8270

GC	WATER	SOIL
HALOGENATED VOLATILE ORGANICS	8010/601	8010
AROMATIC VOLATILE ORGANICS	8020/602	8020
HALOGENATED & AROMATIC VOLATILE	8021	8021
PHENOLS	8040/604	8040
PESTICIDES AND/OR PCB'S	8080/608	8080
POLYNUCLEAR AROMATIC HYDROCARBONS	8100/610	8100
HERBICIDES (2,4-D & 2, 4, 5-TP)	8150	8150
ETHYLENE DIBROMIDE (EDB)	8011/504	8011

RCRA HAZARDOUS WASTE ID	
TCLP METALS	IGNITABILITY
TCLP HERBICIDES	CORROSIVITY (PH)
TCLP PESTICIDES	REACTIVITY (HCN, H2S)
TCLP ACID EXTRACTABLES	PAINT FILTER
TCLP BASE NEUTRALS EXTRACTABLES	
TCLP VOLATILES	

INORGANICS (PLEASE COMPLETE BELOW):

HYDROCARBON (UST)	WATER	SOIL
BTEX/MTBE/PE	8020/602	8020
PETROLEUM HYDROCARBONS-IR	418.1	418.1
OIL & GREASE (GRAVIMETRIC)	9070	9071
PETROLEUM OIL & GREASE (W/SILICA GEL)	9070	9071

TPH-SEMI-VOLATILE	TPH-VOLATILE
CAL/DHS	CAL/DHS
3550/8015	5030/8015
3550/SFB	5030/SFB
DRO-TENN/3550	GRO-TENN/5030
WTPH-D/WA	WTPH-G/WA
IOWA/3550	IOWA/5030
GAS/DIESEL-8015/VA	

REGULATORY GROUPS	
PRIORITY POLLUTANT SCAN	APPENDIX IX (FEDERAL)
PRIORITY POLLUTANT INORGANICS	APPENDIX IX (STATE OF GEORGIA)
PRIORITY POLLUTANT ORGANICS	APPENDIX I (MSWLF)
TARGET COMPOUND LIST (TCL)	APPENDIX II (MSWLF)
TARGET ANALYTE LIST (TAL)	

REMARKS: _____

COMPLETED BY: _____

DATE: _____



LAW

ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

TENNIS REQUEST FOR ANALYSIS

LENL QUOTE # _____

PROJECT NAME: Applegate PROJECT NO.: 40544-7-7966 PHASE NO.: _____ TASK NO.: _____

PROJECT MANAGER: Daryl Setser TAT: (2WK) _____ HC LAB TAT: (1 WK) _____ RUSH _____ (INCURS RUSH FEE)

SAMPLE I.D.: _____ COC NO.: 12744

TOTAL _____ DISSOLVED _____

METALS		
ELEMENT	ICP/FLAME	AA-GF
ALUMINUM	6010	_____
ANTIMONY	6010	7041
ARSENIC	6010	7060
BARIUM	6010	_____
BERYLLIUM	6010/7090	7091
CADMIUM	6010/7130	7131
CALCIUM	6010	_____
CHROMIUM	6010/7190	7191
COBALT	6010	7201
COPPER	6010/7210	_____
LEAD	6010/7420	7421
MAGNESIUM	6010	_____
MANGANESE	6010/7480	_____
MERCURY	7470/7471	AA Cold Vapor
MOLYBDENUM	6010	_____
NICKEL	6010/7520	7521
POTASSIUM	6010	_____
SILVER	6010/7760	7761
SELENIUM	6010	7740
SODIUM	6010	_____
STRONTIUM	6010	_____
THALLIUM	6010	7841
TIN	6010	_____
TITANIUM	6010	_____
VANADIUM	6010	7911
ZINC	6010/7950	_____

GC/MS	WATER	SOIL
VOLATILE ORGANICS	8240/624	8240
VOLATILE ORGANICS	8260	8260
BASE NEUTRAL EXTRACTABLES	8270/625	8270
ACID EXTRACTABLES	8270/625	8270

GC	WATER	SOIL
HALOGENATED VOLATILE ORGANICS	8010/601	8010
AROMATIC VOLATILE ORGANICS	8020/602	8020
HALOGENATED & AROMATIC VOLATILE	8021	8021
PHENOLS	8040/604	8040
PESTICIDES AND/OR PCB'S	8080/608	8080
POLYNUCLEAR AROMATIC HYDROCARBONS	8100/610	8100
HERBICIDES (2,4-D & 2, 4, 5-TP)	8150	8150
ETHYLENE DIBROMIDE (EDB)	8011/504	8011

RCRA HAZARDOUS WASTE ID	
TCLP METALS	IGNITABILITY
TCLP HERBICIDES	CORROSIVITY (PH)
TCLP PESTICIDES	REACTIVITY (HCN, H2S)
TCLP ACID EXTRACTABLES	PAINT FILTER
TCLP BASE NEUTRALS EXTRACTABLES	
TCLP VOLATILES	

INORGANICS (PLEASE COMPLETE BELOW):

HYDROCARBON (UST)	WATER	SOIL
BTEX/MTBE/PE	8030/602	8020
PETROLEUM HYDROCARBONS IR	418.1	418.1
OIL & GREASE (GRAVIMETRIC)	9070	9071
PETROLEUM OIL & GREASE (W/SILICA GEL)	9070	9071

TPH-SEMI-VOLATILE	TPH-VOLATILE
CAL/DHS	CAL/DHS
3550/8015	5030/8015
3550/SFB	5030/SFB
DRO-TENN/3550	GRO-TENN/5030
WTPH-DWA	WTPH-GWA
IOWA/3550	IOWA/5030
GAS/DIESEL-8015/VA	

REGULATORY GROUPS	
PRIORITY POLLUTANT SCAN	APPENDIX IX (FEDERAL)
PRIORITY POLLUTANT INORGANICS	APPENDIX IX (STATE OF GEORGIA)
PRIORITY POLLUTANT ORGANICS	APPENDIX I (MSWLF)
TARGET COMPOUND LIST (TCL)	APPENDIX II (MSWLF)
TARGET ANALYTE LIST (TAL)	

REMARKS: _____

COMPLETED BY: _____

DATE: _____

APPENDIX C
WELL AND BORING LOGS

in 8-1 water bearing zone encountered @ 10-13'. Below 13' to 15' is a dry fill. Clearly water is traveling in some horizontal zones of higher permeability. 7/31/88

FIELD DATA LOG

Client: Law Eng.
 Project: Asbestos
 Date: 8/22/97

Project # 40544-4-7766

SAMPLE #	LOCATION	DESCRIPTION	
8-1-1	Site # 8 5'-7'	1, 3, 4, 3 brown loam w/ asphalt and metal debris	0 ppm
8-1-2	10'-12'	18, 17, 15, 11 smelly; as above	32 ppm
8-1-3	15'-17'	5, 14, 20, 18 dry fill w/ no	0 ppm
8-2-1	5'-7' 2, 3, 8, 14	gray silty clayey sandy fill no smell	
8-2-2	10'-12'	as above	
8-2-3	15'-17' 6, 12, 17, 13	dark grey basal fill; dense no smell	

COMMENTS: _____

Submitted By: _____ Reviewed By: _____

FIELD DATA LOG

40544-4-7966

Client: Law Engineering
 Project: gradesite
 Date: 8/27/97

Site #9

8/27/97

SAMPLE #	LOCATION	DESCRIPTION
9-1-1	4.5'-6.5'	1, 1, 2, 4 clayey fill
9-1-2	9.5-11.5	2, 2, 3, 3 light brown H ₂ O medium sand
9-1-3	14.5-16.5'	8, 10, 13, 12 fine to u. fine silty light brown: no smell.

0 ppm
 saturated
 0 ppm
 0 ppm
 0 ppm

COMMENTS: Completed @ 20' benhoite 3-2 native .5-2.0
5' riser 10' screen

Submitted By: _____ Reviewed By: _____

FIELD DATA LOG

40544-4-7966

Client: Low Engineering
 Project: Aggregate
 Date: 8/28/97

8/28/97

Site 11

SAMPLE #	LOCATION		DESCRIPTION	
11-1-1	5'-7'	88,77	dense, olive/brown & clayey fill w/ no smell.	0 ppm
11-1-2	10'-12'	3,3,68	l. brown; fine silt w/ silt & phyllite cleats; no smell; etc.	0 ppm indicated
11-1-3	15'-17'	9,1230,25	dense, l. brown silty fill	0 ppm

COMMENTS: _____

Submitted By: _____ Reviewed By: _____

FIELD DATA LOG

40544-4-7966

Client: Law Engineering
Project: Adesite
Date: 8/27/97

8/27/97

SAMPLE #	LOCATION	DESCRIPTION
13-1-1	5'-7'	7, 12, 14, 15 brown loam
13-1-2	10'-12'	4, 3, 4, 7 ^{olive} silt
13-1-3	15'-17'	4, 5, 24, 26 light brown silty clay

0 ppm
4 ppm
0 ppm

COMMENTS: Completed 13-1 @ 13' w/ sand to 2.5'
be-brite 2.0-2.5. No live fill to .5 above 17.5'

Submitted By: _____ Reviewed By: _____

FIELD DATA LOG

40544-4-7966

Client: Law Engineering
 Project: Apple safe
 Date: 8/27/97

8/27/97

SAMPLE #	LOCATION	DESCRIPTION
15-1-1	5'-7' 4,2,3,4	olive clay no smell
15-2-2	10'-12' 1,1,2,2	olive clay; water saturated
15-1-3	15'-17' 6,2,5,8	l. brown s. l. sand no smell water saturated

0 ppm
 sli smell
 8 ppm
 0 ppm

COMMENTS: Completed @ 15' benzoite 3-2 redur. 5-20
5' Dser 10' screen

Submitted By: _____ Reviewed By: _____

FIELD DATA LOG

40544-4-7966

Client: Law Engineering
 Project: Apple site
 Date: Aug 27, 1997

Site 16

8/27/97

SAMPLE #	LOCATION	DESCRIPTION
16-1-1	5'-7'	8, 10, 14, 38 olive brown, clayey silt w/ quartz frag. no smell 0 ppm
16-1-2	10'-12'	1, 3, 5, 5 l. brown olive silty, v. fine sand; water saturated; no smell 0 ppm
16-1-3	15'-17'	7, 13, 15, 26 l. brown, olive silty, v. fine sand water saturated; no smell; 0 ppm

COMMENTS: Completed @ 15 w/ 5' riser; bentonite 3-2'
to huc 20-.05

Submitted By: _____ Reviewed By: _____

FIELD DATA LOG

40544-4-7966

Client: Law Engineering
 Project: Appellate
 Date: 8/28/97

8/28/97

Site 18

SAMPLE #	LOCATION		DESCRIPTION	
18-1-1	5'-7'	3,4,3,5	olive brown clayey silt; no smell	0 ppm
18-1-2	10'-12'	1,2,3	olive brown sandy silt; no smell	0 ppm
18-1-3	15'-17'	3,2,3,4	dark brown medium sand; no smell; damp.	0 ppm
18-1-4	20'-22'	9,12,10,8	dense, light gray fill	0 ppm

COMMENTS: _____

Submitted By: _____ Reviewed By: _____

LAW ENGINEERING

BORING ASSIGNMENT

Job Name Aggregate Apartments

Job. No. 40544-4-7966

Daily Reports to _____

Phone _____ At _____

Form Completed By Brachett

Date 8/28/97

DRILLER: DO NOT BEGIN DRILLING UNLESS UTILITIES QUESTION BELOW IS INITIALED:

Are boring locations cleared for utilities: **YES** _____ **NO** _____

(If **NO**, see No. **12** on reverse side for special instructions).

Boring No.	From Form	To	Sample Interval	Undisturbed Sample	Remarks
23-1-1			5'-7'	3"	2,3,2,4 0 ppm loamy clay w/ construction debris
23-1-2			10'-12'	18" ol. brown silt w/ mollusks	2,2,3,5 0 ppm
23-1-3			15'-17'	gray fine-med sand grading to dense fill	5/30, 32, 26
			20'-22'		10, 14, 14, 17 0 ppm
23-1-4			25-27'	5,3,3,8	0 ppm
<p>Fine gravel grading to silty fine sand similar to sand seen in 7, 11, 15, 16 area; have not seen this fine gravel before (gravel is immature, subangular)</p>					
			30-32		

- NOTE:**
1. Above depths are minimum. In soft soils (Less than 4 blows per foot) and in fills always drill until harder soils or virgin soils are reached.
 2. When drilling rock, always take blows with spoon following a run in which core recovery is less than 20 per cent. Continue until 5 ft of sound rock is reached.
 3. Always re-check groundwater after 24 hours.
 4. Have any borings been moved? If so what direction and how many feet?

LAW ENGINEERING

BORING ASSIGNMENT

Job Name Apple Gate 26-2 Job. No. 40544-4-7966

City Reports to _____

Phone _____ At _____

Form Completed By Brachett Date Sept 17, 1957

DRILLER: DO NOT BEGIN DRILLING UNLESS UTILITIES QUESTION BELOW IS INITIALED:

Are boring locations cleared for utilities: **YES** _____ **NO** _____

(If **NO**, see No. **12** on reverse side for special instructions).

Boring No.	Form	To	Sample Interval	Undisturbed Sample	Remarks
26-2-1			5'-7'	8, 8, 45	loamy fine sand to sandy loam no smell 0 ppm
26-2-2			no sample		
26-2-3				19, 19, 23, 53	brown coarse sandy gravel no smell 0 ppm
			well rd @ 17' (refused on a cobble)		
			water @ 12' 8"		
			12.65	10/2/57	RES

- NOTE:**
1. Above depths are minimum. In soft soils (Less than 4 blows per foot) and in fills always drill until harder soils or virgin soils are reached.
 2. When drilling rock, always take blows with spoon following a run in which core recovery is less than 20 per cent. Continue until 5 ft of sound rock is reached.
 3. Always re-check groundwater after 24 hours.
 4. Have any borings been moved? If so what direction and how many feet?

APPENDIX D
QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

STEVEN L. BRACKETT

Senior Geologist

From March of 1993 until July 1996 Steve was a geologist for Strategic Analytical Systems, Inc.. He joined Stevens and Associates Engineering in July of 1996 as Senior Geologist responsible for project management and for performing geologic studies for various types of projects including drinking water supply development, landfill closures, and hazardous waste site characterization and remediation.

Steve has been project manager on numerous water supply projects including new source development at the Windy Hill Mobil Home Park, Springfield, VT, and feasibility/design for upgrades to the Rolling Meadows Water System in Newfane, VT.

Education and Professional Development

- 1989 - 1993 CTY Exploration, Inc., Baton Rouge, LA - Geologist
- 1981-1989 Ethyl Corp., Baton Rouge, LA - Geologist
- 1980 - 1981 Mobil Oil, New Orleans, LA - Senior Geologist
- 1981 Brown University - Providence, RI : M. Sc. Geological Sciences
- 1978 Eastern Connecticut State University - Willimantic, CT: B.S.
Environmental Earth Science

Certifications

- Class 1A New Hampshire Water System Operator (certificate # 1921)
- Class III Vermont Water System Operator (certificate # 1973)

Affiliations

- New Hampshire Geological Society - member
- Vermont Geological Society - member
- New England Water Works Association - member
- Keene Water Distribution and Wastewater Collection Master Plan Committee member

MARY P. SHUMWAY
Project Scientist

Education

B.S., Chemistry, University of Wisconsin, 1984

Professional Memberships

American Chemical Society

Career Summary

Ms. Shumway joined Law Engineering and Environmental Services, Inc. (LAW) in 1997 as a Project Scientist for the Environmental Services Department. Prior to joining LAW, she was a Development Chemist for Georgia-Pacific Corporation. Ms. Shumway has presented seminars on product analysis and analytical techniques and she has participated on numerous committees to promote safety and quality in work procedures and processes.

Primary Area of Expertise

Ms. Shumway has conducted quantitative analysis on polymers utilizing HPLC, GPC, GC, AAS, and SEM. She has also conducted quality control testing for toxicology studies using HPLC, GC, and UV spectroscopy. Ms. Shumway has evaluated facilities and records for current Good Manufacturing Practices (cGMP) compliance and developed and conducted cGMP training programs. She has performed compliance audits of manufacturing and laboratory processes and systems and coordinated and accompanied state and federal investigators during inspections.

Secondary Area of Expertise

Ms. Shumway has performed quantitative analysis on pharmaceutical formulations utilizing HPLC, GC, and TLC. She has validated new analytical methods for FDA approval and prepared data for NDA submissions. Ms. Shumway has completed LAW's Phase I Environmental Assessment training.

Years in Profession: 12

ERIC R. SILVERS, P.G
Principal Environmental Geologist

Education

M.S., Geology, 1987, University of Nebraska
B.S., Geology, 1982, Indiana University

Professional Registrations/Certification

Professional Geologist, FL
40 Hour OSHA
8 Hour OSHA Supervisor

Professional Memberships & Associations

American Society for Testing and Materials
American Water Resources Association
Geological Society of America
National Ground Water Association

CAREER SUMMARY

Mr. Silvers joined LAW in 1991 as a Senior Geologist in the Environmental Services Program. He has extensive experience in soil, groundwater and surface water contamination assessment. Project involvement during the past five years has encompassed a broad range of environmental activities including site assessments, hydrocarbon and DNAPL corrective actions, solid waste management, waste water and stormwater management, water resource permitting, computer modeling, quality assurance, regulatory liaison and expert testimony. In 1994 he was designated Principal Geologist.

Prior to joining LAW, Mr. Silvers was with the Florida Department of Environmental Protection (FDEP). At the FDEP, Mr. Silvers served as Hydrogeologist for the Northeast District, providing oversight and technical review for all soil, groundwater and surface water contamination issues. As hydrogeologist for the Waste Management Program, he determined project compliance with RCRA, CERCLA, and Florida Administrative Code Regulations. Specific responsibilities routinely included permit and consent order negotiation, as well as corrective action compliance and enforcement determination.

Primary Area of Expertise

Mr. Silvers has performed numerous invasive site assessments, including PD&E studies, in fulfillment of due diligence requirements and regulatory requests to ascertain the potential of past or present land use activities to have adversely impact soil and groundwater quality. Mr. Silvers has executed and managed the full spectrum of LNAPL and DNAPL corrective actions ranging from facility closures, to contamination assessments, feasibility studies, and remedial action design and implementation. Mr. Silvers has also been instrumental in the review, design and, evaluation of groundwater monitoring systems designed to allow a predictive evaluation of leachate plumes emanating from solid and hazardous waste facilities.

Eric R. Silvers, P.G.

Page 2

In addition to a demonstrated proficiency with the LANDAP and MODRET models, Mr. Silvers is also familiar with MODFLOW, MOC and a series of related groundwater flow and contaminant transport models. Mr. Silvers is experienced with the State of Florida Water Resources Act Chapter 40C-1 Consumptive Use Permitting process enforced by the water management districts to regulate the withdrawal of groundwater. Mr. Silvers has conducted a number of wastewater reuse projects involving spray field application of secondary domestic effluent.

Secondary Area of Expertise

Mr. Silvers has also provided testimony as an expert in geology and hydrogeology for both Administrative and Circuit Court hearings. Mr. Silvers has testified concerning compliance with State environmental regulations and geologic interpretation issues.

Mr. Silvers also routinely services in a regulatory liaison capacity to facilitate permitting and enforcement negotiations between clients and various regulatory agencies.

Other Relevant Expertise

- Health and Safety Compliance
- Quality Assurance/Quality Control

Years in Profession: 18

Years with Law: 5

SECONDARY CLIENT AGREEMENT

This Agreement between _____ and Law _____ is being entered in consideration of _____, the promises and obligations herein and other good and valuable consideration, the adequacy of which is hereby acknowledged by the parties. At the express request of _____ ("Client") and with full disclosure to and approval from same, Law _____ ("LAW") through its subsidiaries, affiliates, branches, or divisions, as an independent consultant, agrees to provide _____, its corporate successors and assigns, (collectively "Secondary Client") for its additional benefit and use, copies of certain final reports prepared for Client by LAW. Secondary Client may rely on the contents of those reports as if those reports were expressly prepared for Secondary Client but only to the extent appropriate in light of any limitations placed on the scope, nature and type of LAW's services as stated in LAW's proposal and/or report and subject to these terms and conditions. The services provided have been performed for Client and our report may or may not be suitable for all purposes of Secondary Client.

STANDARD OF CARE AND WARRANTY. LAW warrants that it has performed its services with that degree of skill and care ordinarily exercised by reputable members of the environmental engineering and scientific profession of LAW in the same or similar locality. **NO OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE OR INTENDED.**

PROFESSIONAL LIABILITY. Secondary Client along with Client, agrees to limit LAW's aggregate liability to Client and Secondary Client due to any negligent professional acts, errors, omissions or breach of contract to fifty thousand dollars (\$50,000.00). This limitation shall not apply to the extent prohibited by law.

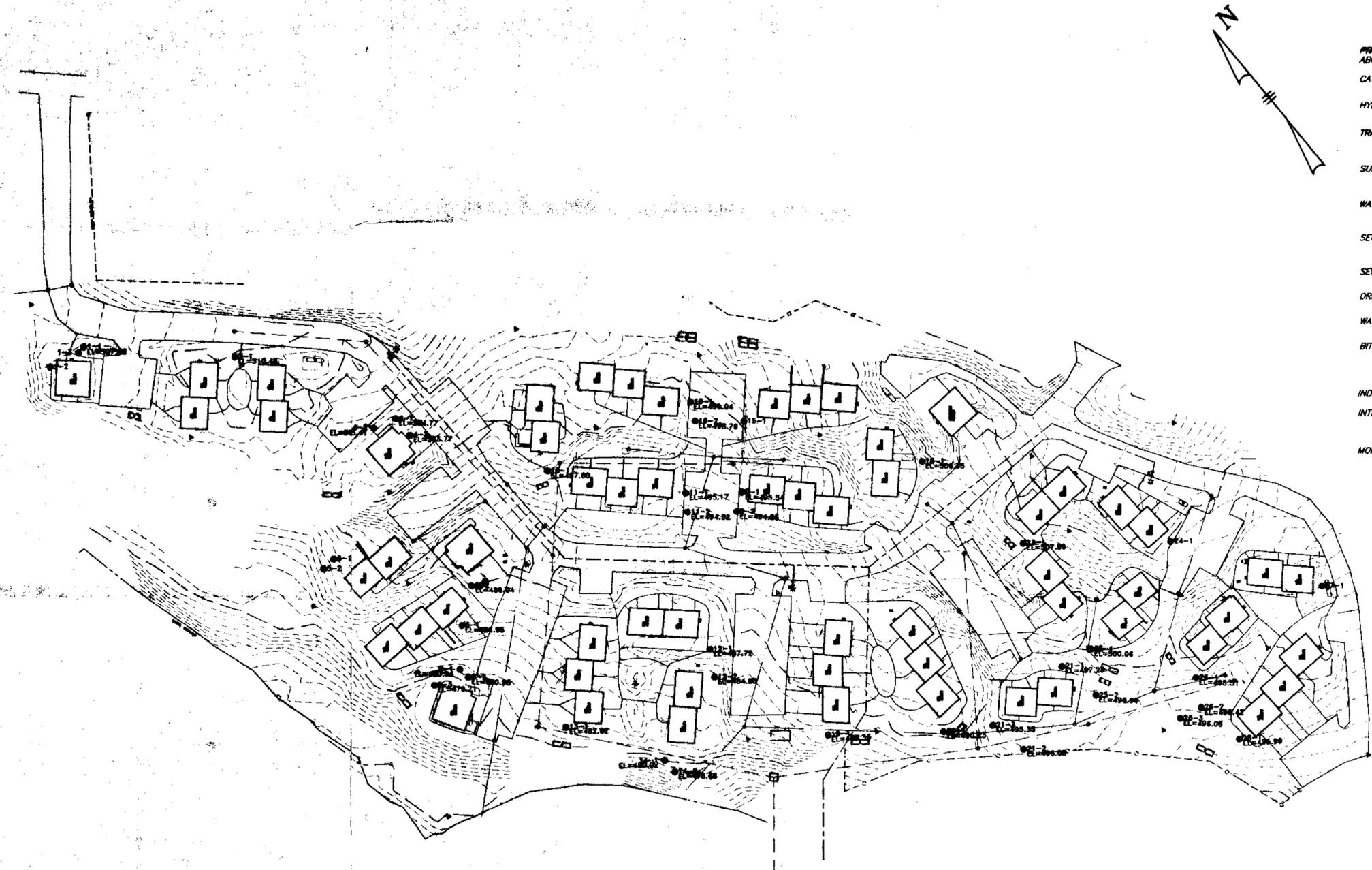
DOCUMENTS. Secondary Client agrees that LAW's report is intended for Client and Secondary Client's exclusive reliance and internal use, and is not for general distribution or publication. Without the prior consent of LAW, any unauthorized use or further distribution by Secondary Client shall be at Secondary Client's and recipient's sole risk and without liability to LAW.

CONFLICT OF INTEREST. By request and use of the referenced report, Secondary Client expressly agrees to waive all claims of existing or potential conflicts of interest that may now exist or hereafter arise by LAW's providing the requested report and acknowledges LAW's right to support Client if requested should any dispute arise between Client and Secondary Client.

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Signed: _____
Title: _____
Date: _____

(Secondary Client)
Signed: _____
Title: _____
Date: _____



LEGEND

	EXISTING	PROPOSED
PROPANE TANK, UNDERGROUND	○	○
ABOVEGROUND TANK(S) IF SURROUNDED BY FENCE	□	□
CATCH BASIN	□	□
HYDRANT	⊗	⊗
TRANSFORMER BOX	⊞	⊞
SURVEY POINT	△	△
WATER VALVE	⊗	⊗
SEWER MANHOLE	⊙	⊙
SEWER LINE	—	—
DRAIN LINE	—	—
WATER MAIN	—	—
BIT. CONC. SIDEWALK	—	—
INDEX CONTOURS	-95-	-95-
INTERMEDIATE CONTOURS	-99-	-99-
MONITORING WELL	●	●

**STEVENS & ASSOCIATES
ENGINEERING**
Consulting in Civil, Sanitary
& Structural Engineering

28 Birge Street, Brattleboro,
VT 05301 (802) 257-9329

APPLEGATE
BENNINGTON, VT

HOUSING VERMONT
ONE BURLINGTON SQUARE
BURLINGTON, VT

DATE:	REVISION:

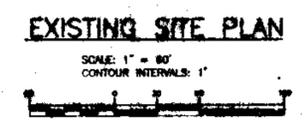
**EXISTING SITE
PLAN
INCLUDING
MONITORING WELL
LOCATIONS**

DES. BY	SLB
OWN. BY	TW
CHKD. BY	
SCALE	1" = 60'
DATE	10/10/97
PROJECT NO.	97-104
DWG. NO.	

C-1

GENERAL NOTES:

- ELEVATION DATUM WAS TAKEN FROM PLANS TITLED
APPLEGATE EXISTING CONDITIONS BENNINGTON, VT
PREPARED BY MSK ENGINEERING AND DESIGN, INC.,
DATED JULY 1, 1997.



C:\DWG\1997-10\APPLE13 Non Oct 13 06:41:57 1997