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1.0 PROJECT INFORMATION

The site is located on Salem Avenue in Winston-Salem, North Carolina (Figure 1). The property is approximately 1.5 acres in size and is developed as an auto supply retail store and warehouse. Four underground storage tanks (UST) were located on the site (Figure 2).

Two USTs were located between Salem Avenue and the Auto Supply Building: (1) One 6,000 gallon Diesel UST, and (2) One 12,000 gallon Diesel UST. One 1000 gallon waste oil UST was located to the south of the diesel USTs, and one 1000 gallon waste oil UST was located adjacent to the Auto Supply Building. Environmental Contractors, Inc. contracted Law Engineering to perform the environmental sampling activities associated with the removal of the USTs.

2.0 CONTRACTED SCOPE OF SERVICES

The scope of services to be performed by Law Engineering on this project includes the following:

- o Collect up to two soil samples beneath the former location of the 6,000 gallon diesel UST and have each analyzed for semi-volatile total petroleum hydrocarbons (TPH) using EPA method 3550, followed by Flame Ionization Detection (FID).
- o Collect up to three soil samples beneath the former location of the 12,000 gallon UST and have each analyzed for semi-volatile TPH using EPA method 3550-FID.
- o Collect up to one soil sample beneath the former location of each 1,000 waste oil UST and have each sample analyzed for oil and grease using EPA Method 9071 and metals (using Toxic Characteristic leaching procedure [TCLP]).
- o Collect up to one soil sample from each UST excavation stockpile and have each analyzed for semi-volatile TPH using EPA method 3550-FID.
- o Prepare a written report describing our field activities, presenting the analytical results, and providing our conclusions and recommendations.

3.0 SITE AND SUBSURFACE CONDITIONS

The site was developed as an auto retail supply and warehouse. The ground surface was predominantly concrete about four inches thick.

The sequence of materials encountered during the excavation activities was as follows:

1) Approximately 4 inches of concrete; 2) Approximately 4 inches crushed stone; 3) Fill material characterized as gray, green to brown medium sandy silt and 4) A concrete slab located beneath the 6000 gallon and 12,000 gallon USTs. Residuum soil was not encountered due to the presence of the concrete slabs.

4.0 SOIL SAMPLE COLLECTION

Representative soil samples were collected at an approximate depth of 1.5 feet below each UST. Each sample was manually collected from the bucket of the on-site trackhoe using clean, vinyl gloves. Three samples were collected from beneath the 12,000 diesel UST, two from beneath the 6,000 gallon diesel UST, one each from the two waste oil USTs, and one each from the diesel UST stockpiles. Immediately upon removal of each sample from the excavation, a representative portion of the sample was placed into a four-ounce capacity wipe-mouth jar equipped with a teflon-lined screw cap.

The sample jaws were tightly packed with sample to minimize available headspace. The sample jaws were approximately labeled, placed into a cooler containing ice, and shipped to Law Engineering National Laboratories, Inc. (LENL) in Kennesaw, Georgia. The samples were analyzed for semi-volatile (TPH) using EPA method 3550-FID (diesel), or oil and grease (EPA Method 9071 and TCLP metals [waste oil]).

Two soil samples (S-1 and S-2) were collected from the material from the bottom of the 6,000 gallon diesel UST excavation adjacent to the underlying concrete slab. Three soil samples (S-4, S-5, and S-6) were collected at each end and in the middle of the 12,000 gallon diesel UST excavation. One soil sample each was collected at the three waste oil sites.

Appropriate chain of custody was maintained, as documented in the Appendix.

5.0 LABORATORY ANALYTICAL RESULTS

5.1 6,000 Gallon Diesel UST

No concentrations of semi-volatile TPH equal to or exceeding the detection limit of 10 ppm were detected (Table 1). Analysis of the composite sample of excavated soil at the 6,000 diesel UST indicated 200 ppm for semi-volatile TPH.

5.2 12,000 Gallon Diesel UST

Reported TPH concentrations were 14 ppm (S-5), 30 ppm (S-4), and 4700 ppm (S-6). The detection limit of the analysis was 10 ppm. Similar analysis of the 12,000 gallon diesel excavated soil indicated 670 ppm for semi-volatile TPH.

5.3 Two 1,000 Gallon Waste Oil USTS

Reported oil and grease concentrations were 630 ppm (S-3), 1600 ppm (S-7), and 340 (S-8). The detection limit of the analysis was 100 ppm.

The reported analytical results for the eight metals indicated a concentration of 0.6 ppm for barium. No concentrations of arsenic, cadmium, chromium, lead, mercury, selenium, or silver equal to or exceeding the respective detection limits were detected in the sample (Table 3).

The laboratory data sheets are included in the Appendix.

6.0 CONCLUSIONS

Guidelines for remediation of soil contaminated with petroleum hydrocarbons have been established by the North Carolina Department of Environment, Health and Natural Resources, Division of Environmental Management. These guidelines require further investigation or remedial action if detected TPH concentrations exceed 10 ppm. Soils with TPH concentrations equal to or greater than 85 ppm must be treated in-situ or removed.

Based on the excavation analysis at the 12,000 gallon diesel UST, soils located below the UST indicated TPH concentrations exceeding the State of North Carolina remediation level of 10 ppm and the State mandatory action level of 85 ppm.

The soils beneath the 6,000 gallon diesel UST did not contain TPH concentrations exceeding the detection limit of 10 ppm.

Based on the composite sample analysis, soils located above and around the sides of the 6,000 gallon diesel UST and the 12,000 gallon diesel UST exhibited TPH concentrations exceeding the State Action Level of 85 ppm (200 ppm and 670 ppm, respectively).

Soils sampled for oil and grease beneath each 1,000 gallon waste oil UST exhibited concentrations exceeding the State action level of 100 ppm.

The reported concentration of barium (0.6 ppm) did not exceed the State standard for this parameter.

7.0 RECOMMENDATIONS

Law Engineering recommends that contaminated soils at the project site be removed and/or treated in accordance with North Carolina Department of Environment, Health and Natural Resources, Division of Environmental Management Guidelines. When the depth of the excavation reaches the undisturbed soils located under each former UST, these soils should be excavated and identified as requiring treatment.

Excavation should continue until each lower concrete pad is reached. Confirmation samples should be collected from the sides of the 6,000 gallon and 12,000 gallon diesel UST excavations. Additional confirmation samples shall be collected below the depth of the concrete pads. These confirmation samples should be analyzed for semi-volatile TPH using EPA Method 3550-FID.

Confirmation soil samples should be collected at each waste oil UST site as described for the diesel USTs and analyzed for oil and grease using EPA method 9071. This will provide verification that clean-up criteria has been met.

Based on the contaminants of concern, thermal treatment would be an effective technology to reduce soil contaminant levels. The NCDEHNR Winston-Salem Regional office should be contacted prior to soil treatment.

8.0 QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments and waste-management projects of this type. Our evaluation of site conditions has been based on our understanding of the site and project information, and the data obtained during the underground storage tank removal and soil sampling activities.

The primary objective of this project was to excavate and remove the UST, and to perform sufficient work to determine if petroleum hydrocarbons exist in the soil in the immediate vicinity of the UST after its removal from the site.

TABLES

Table 1

Summary of Laboratory Analysis
 Auto Supply
 Winston-Salem, North Carolina
 Law Job No. GB-1389

SAMPLE NO.	SAMPLE LOCATION	SAMPLE TYPE	TPH PPM	EPA METHOD
S-1	6000 Gal Diesel UST	Grab	ND	3550
S-2	6000 Gal Diesel UST	Grab	ND	3550
S-3	Waste Oil UST	Grab	630	9071
S-4	12000 Gal Diesel UST	Grab	30	3550
S-5	12000 Gal Diesel UST	Grab	14	3550
S-6	12000 Gal Diesel UST	Grab	4700	3550
S-7	Excavation (No UST)	Grab	1600	9071
S-8	Waste Oil UST	Grab	ND 340	3550 9071
	12000 Gal Diesel Stockpile	Composite	670	3550
	6000 Gal Diesel Stockpile	Composite	200	3550

PPM - parts per million
 TPH - total petroleum hydrocarbons
 ND - not detected

TABLE 2

Summary of Laboratory Analyses - Metals
 Auto Supply Store
 Winston-Salem, North Carolina
 Law Job No. GB-1389

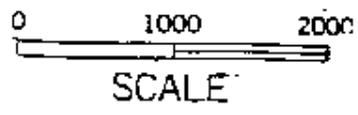
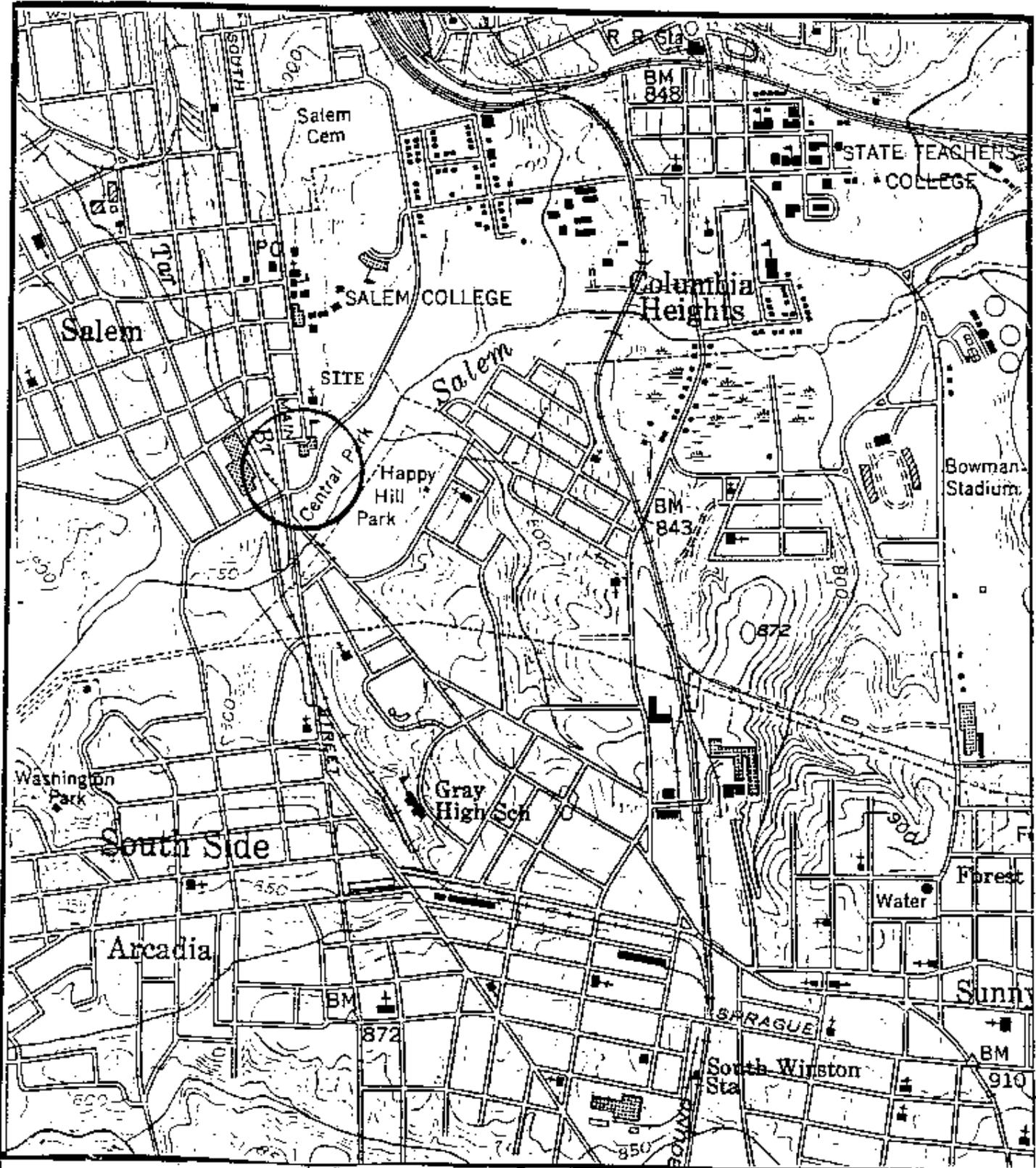
<u>Sample Location</u>	<u>Sample Type</u>	<u>Parameter</u>	<u>Results (ppm)</u>
S-3	Composite	Arsenic, TCLP	ND
		Barium TCLP	0.5
		Cadmium, TCLP	ND
		Chromium, TCLP	ND
		Lead, TCLP	ND
		Mercury, TCLP	ND
		Selenium, TCLP	ND
		Silver, TCLP	ND
S-7	Composite	Arsenic, TCLP	ND
		Barium, TCLP	1.2
		Cadmium, TCLP	ND
		Chromium, TCLP	ND
		Lead, TCLP	ND
		Mercury, TCLP	ND
		Selenium, TCLP	ND
		Silver, TCLP	ND

ppm - parts per million

ND - Not Detected

TCLP - Toxic Characteristic Leaching Procedure

FIGURES



Ref: USGS Topographic Map,
 Winston-Salem West
 Quadrangle, Dated 1950,
 Photorevised 1971.

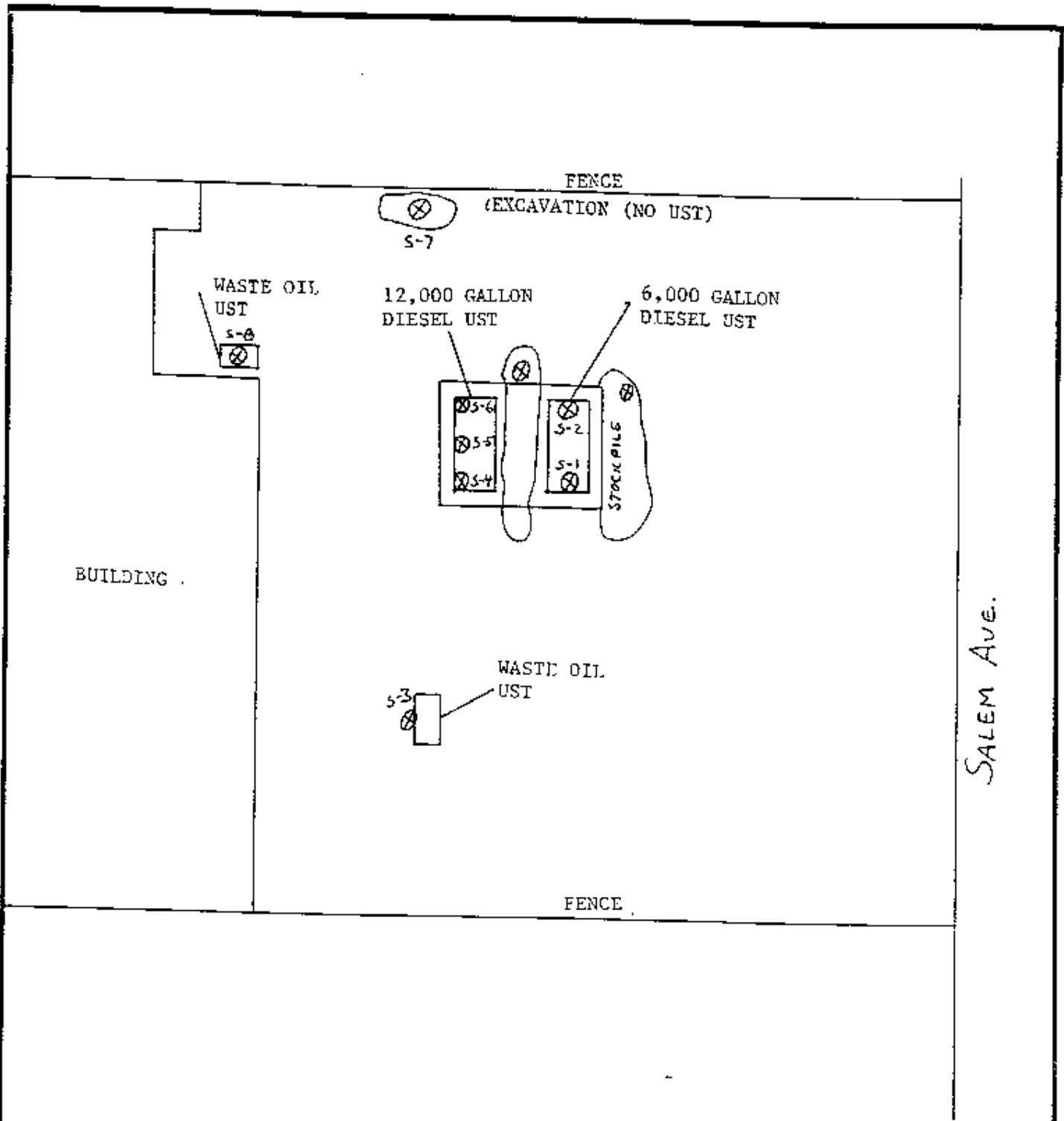


LAW ENGINEERING
GREENSBORO, NORTH CAROLINA

SITE LOCATION PLAN
 AUTO SUPPLY STORE
 WINSTON-SALEM, NORTH CAROLINA

JOB NO. CB-1389

FIGURE 1



⊗ - SOIL SAMPLE LOCATIONS

DRAWING NOT TO SCALE



Ref: Sketch from field notes
by Law Engineering
personnel



LAW ENGINEERING
GREENSBORO, NORTH CAROLINA

SITE LAYOUT
AUTO SUPPLY STORE
WINSTON-SALEM, NORTH CAROLINA

JOB NO. GB-1389

FIGURE 2

LABORATORY ANALYTICAL DATA

Date 12/17/90
Page 1

--- Project Information ---

Lab Number : 60-1630-02
Project No. : GB-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : S-1
Matrix : SO
Type : GRAB
Collector : JB

Sampled Date/Time : 12/06/90 12:30
Received Date/Time : 12/08/90 13:30
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 1

Remarks :

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analy
-- SAMPLE PREPARATION RESULTS --						
Ext/TPH Semi-Volatile/SO/Son	SF 3550			NA	12/11/90	SW
Moisture (Oven Dried @ 105 C)	EPA 160.3M	wt %	1	20	12/12/90	RO
--- SERIES 15000						
TPH, Semi-Volatile	SF Bay	mg/kg	10	ND	12/12/90	PDG

Signed



LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

Date 12/17/90
Page 1

--- Project Information ---

Lab Number : 60-1630-03
Project No. : GE-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : S-2
Matrix : SO
Type : GRAB
Collector : JB

Sampled Date/Time : 12/06/90 12:30
Received Date/Time : 12/08/90 13:20
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 1

Remarks :

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analy
-- SAMPLE PREPARATION RESULTS --						
Ext/TPH Semi-Volatile/SO/Son	SF 3550			NA	12/11/90	SM
Moisture (Oven Dried @ 105 C)	EPA 160.3M wt %	1		17	12/12/90	RO
--- SERIES 15000						
TPH, Semi-Volatile	SF 8ay	mg/kg	10	ND	12/12/90	PDC

Signed

James P. ...

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

Date 12/17/90
Page 1

--- Project Information ---

Lab Number : 60-1630-01
Project No. : GB-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : S-3
Matrix : SO
Type : GRAB
Collector : JB

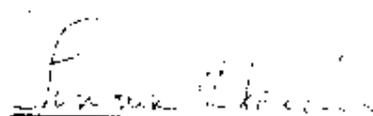
Sampled Date/Time : 12/06/90 12:00
Received Date/Time : 12/08/90 13:20
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 1

Remarks :

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analyst
-- SAMPLE PREPARATION RESULTS --						
Ext/TPRH/So/Sox	9071-C-DHS			NA	12/11/90	PC
Moisture (Oven Dried @ 105 C)	EPA 160.3M wt %	1		21	12/12/90	RO
--- SERIES 11000						
Oil & Grease (Hydrocarbons)	EPA 9071	mg/kg	100	630	12/12/90	RO

Signed



LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

Date 12/17/90
Page 1

--- Project Information ---

Lab Number : 60-1630-05
Project No. : GE-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : S-4
Matrix : SO
Type : GRAB
Collector : JB

Sampled Date/Time : 12/06/90 15:30
Received Date/Time : 12/08/90 13:20
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 1

Remarks : *THE CHROMATOGRAM RESEMBLES THAT OF DIESEL WITH HEAVIER
CONSTITUENTS.

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analy
-- SAMPLE PREPARATION RESULTS --						
Ext/TPH Semi-Volatile/SO/Son	SF 3550			NA	12/11/90	3%
Moisture (Oven Dried @ 105 C)	EPA 160.3M wt %	1		18	12/12/90	PO
--- SERIES 15000						
TPH, Semi-Volatile	SF Bay	mg/kg	10	30*	12/14/90	POG

Signed *[Signature]*

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

Date 12/17/90
Page 1

--- Project Information ---

Lab Number : 60-1630-06
Project No. : GB-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : S-5
Matrix : SO
Type : GRAB
Collector : JB

Sampled Date/Time : 12/06/90 15:30
Received Date/Time : 12/08/90 13:20
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 1

Remarks : *ESTIMATED DATA: MATRIX INTERFERENCE, THE CHROMATOGRAM
RESEMBLES THAT OF A MIXTURE OF GASOLINE & DIESEL.

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analyst
-- SAMPLE PREPARATION RESULTS --						
Ext/TPH Semi-Volatile/SO/Son	SF 3550			NA	12/11/90	BM
Moisture (Oven Dried @ 105 C)	EPA 160.3M wt %	1		17	12/12/90	RO
--- SERIES 15000						
TPH, Semi-Volatile	SF Bay	mg/kg	10	14*	12/14/90	PEG

Signed

[Handwritten Signature]

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

Date 12/17/90
Page 1

--- Project Information ---

Lab Number : 60-1630-07
Project No. : GB-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : S-6
Matrix : SO
Type : GRAB
Collector : JB

Sampled Date/Time : 12/06/90 15:30
Received Date/Time : 12/08/90 13:20
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 1

Remarks : *THE CHROMATOGRAM RESEMBLES THAT OF DIESEL.

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analy
-- SAMPLE PREPARATION RESULTS --						
Ext/TPH Semi-Volatile/SO/Son	SF 3550			NA	12/11/90	BM
Moisture (Oven Dried @ 105 C)	EPA 160.3M wt %	1		20	12/12/90	RO
--- SERIES 15000						
TPH, Semi-Volatile	SF Bay	mg/kg	10	4700*	12/14/90	PDC

Signed Jerry D. Brown

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

Date 12/17/90
Page 1

--- Project Information ---

Lab Number : 60-1630-09
Project No. : GB-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : S-7
Matrix : SO
Type : GRAB
Collector : JB

Sampled Date/Time : 12/06/90 14:30
Received Date/Time : 12/08/90 13:20
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 1

Remarks :

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analy
-- SAMPLE PREPARATION RESULTS --						
Ext/TPRH/So/Sox	9071-C-DHS			NA	12/11/90	RO
Moisture (Oven Dried @ 105 C)	EPA 160.3M wt %	1		19	12/12/90	RO
--- SERIES 11000						
Oil & Grease (Hydrocarbons)	EPA 9071	mg/kg	100	1600	12/12/90	RO

Signed *[Signature]*

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

Date 12/17/90
Page 1

--- Project Information ---

Lab Number : 60-1630-11
Project No. : GB-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : S-8
Matrix : SO
Type : GRAB
Collector : JB

Sampled Date/Time : 12/06/90 17:00
Received Date/Time : 12/08/90 13:20
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 2

Remarks :

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analy
-- SAMPLE PREPARATION RESULTS --						
Ext/TPH Semi-Volatile/SO/Son	SF 3550			NA	12/11/90	SM
Ext/TPRH/So/Sox	9071-C-DHS			NA	12/11/90	RO
Moisture (Oven Dried @ 105 C)	EPA 160.3M wt %	1		20	12/12/90	RO
--- SERIES 11000						
Oil & Grease (Hydrocarbons)	EPA 9071	mg/kg	100	340	12/12/90	RO
--- SERIES 15000						
TPH, Semi-Volatile	SF Bay	mg/kg	10	ND	12/14/90	PDC

Signed

[Handwritten Signature]

SAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

Date 12/17/90
Page 1

--- Project Information ---

Lab Number : 60-1630-04
Project No. : GB-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : 6000 DIESEL UST
Matrix : SO
Type : COMP
Collector : JB

Sampled Date/Time : 12/06/90 13:00
Received Date/Time : 12/08/90 13:20
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 1

Remarks : *THE CHROMATOGRAM RESEMBLES THAT OF DIESEL WITH HEAVIER
CONSTITUENTS.

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analy
-- SAMPLE PREPARATION RESULTS --						
Ext/TPH Semi-Volatile/SO/Son	SF 3550			NA	12/11/90	BM
Moisture (Oven Dried @ 105 C)	EPA 160.3M wt %	1		12	12/12/90	RO
--- SERIES 15000						
TPH, Semi-Volatile	SF Bay	mg/kg	10	200*	12/14/90	PDG

Signed Linna

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

Date 12/17/90
Page 1

--- Project Information ---

Lab Number : 60-1630-08
Project No. : GH-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : 12000 DIESEL UST
Matrix : SO
Type : COMP
Collector : JB

Sampled Date/Time : 12/06/90 15:00
Received Date/Time : 12/08/90 13:20
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 1

Remarks : ESTIMATED DATA: MATRIX INTERFERENCE.
*THE CHROMATOGRAM RESEMBLES THAT OF DIESEL.

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analy
-- SAMPLE PREPARATION RESULTS --						
Ext/TPH Semi-Volatile/SO/Son	SF 3550			NA	12/11/90	BM
Moisture (Oven Dried @ 105 C)	EPA 160.3M wt %	1		13	12/12/90	RO
--- SERIES 15000						
TPH, Semi-Volatile	SF Bay	mg/kg	10	670*	12/14/90	PEG

Signed

Teresa DeCena

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

Date 12/17/90
Page 1

--- Project Information ---

Lab Number : 60-1630-10
Project No. : GB-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : DUPLICATE
Matrix : SO
Type : GRAB
Collector : JB

Sampled Date/Time : 12/06/90 :
Received Date/Time : 12/08/90 13:20
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 1

Remarks : *THE CHROMATOGRAM RESEMBLES THAT OF DIESEL.

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analy
-- SAMPLE PREPARATION RESULTS --						
Ext/TPH Semi-Volatile/SO/Son	SF 3550			NA	12/11/90	BM
Moisture (Oven Dried @ 105 C)	EPA 160.3M wt %	1		21	12/12/90	RO
--- SERIES 15000						
TPH, Semi-Volatile	SF Bay	mg/kg	1000	16000*	12/17/90	PDG

Signed

Jinca Hester

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

Date 12/21/90
Page 1

--- Project Information ---

Lab Number : 90-7464-01
Project No. : GB-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : S-3
Matrix : SO
Type : GRAB
Collector : JB

Sampled Date/Time : 12/06/90 12:00
Received Date/Time : 12/08/90 13:20
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 4

Remarks :

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analy
-- METALS ANALYSIS - METALS PREP RESULTS --						
Arsenic, TCLP	EPA 7060	mg/l	0.1	ND	12/17/90	DCE
Barium, TCLP	EPA 6010	mg/l	0.5	0.6	12/13/90	KE
Cadmium, TCLP	EPA 7130	mg/l	0.1	ND	12/17/90	DCE
Chromium, TCLP	EPA 7190	mg/l	0.5	ND	12/17/90	DCE
Lead, TCLP	EPA 7420	mg/l	0.5	ND	12/18/90	DCE
Mercury, TCLP	EPA 7470	mg/l	0.1	ND	12/13/90	HH
Selenium, TCLP	EPA 7740	mg/l	0.1	ND	12/14/90	DCE
Silver, TCLP	EPA 7760	mg/l	0.5	ND	12/18/90	DCE
--- SERIES 35000						
Total Metals Prep: Aqueous ICP	EPA 3010			N/A	12/12/90	HH
Total Metals Prep: Aqueous AA Flame	EPA 3010			N/A	12/12/90	HH
Total Metals Prep: Aqueous Furnace	EPA 3020			N/A	12/12/90	HH
Total Metals Prep: Aqueous, Hg	EPA 7470			N/A	12/12/90	HH
TCLP EXTRACTION	EPA 1311			N/A	12/12/90	HH

Signed

[Handwritten Signature]

LAW ENVIRONMENTAL NATIONAL LABORATORIES
TEST DATA REPORT

Date 12/21/90
Page 1

--- Project Information ---

Lab Number : 90-7464-02
Project No. : GB-1389
Project Name : AUTO SUPPLY

Cust. No. :

Manager: JOE BEST

--- Sample Information ---

Station ID : S-7
Matrix : SO
Type : GRAB
Collector : JB

Sampled Date/Time : 12/06/90 14:30
Received Date/Time : 12/08/90 13:20
Received From/By : JB/SE
Chain of Custody : 1163
Number of Containers : 4

Remarks :

--- Test Data ---

Parameter.....	Method....	Units	PQL.....	Results...	Test Date	Analy
-- METALS ANALYSIS - METALS PREP RESULTS --						
Arsenic, TCLP	EPA 7060	mg/l	0.1	ND	12/17/90	DCE
Barium, TCLP	EPA 6010	mg/l	0.5	1.2	12/13/90	KE
Cadmium, TCLP	EPA 7130	mg/l	0.1	ND	12/17/90	DCE
Chromium, TCLP	EPA 7190	mg/l	0.5	ND	12/17/90	DCE
Lead, TCLP	EPA 7420	mg/l	0.5	ND	12/18/90	DCE
Mercury, TCLP	EPA 7470	mg/l	0.1	ND	12/13/90	HH
Selenium, TCLP	EPA 7740	mg/l	0.1	ND	12/14/90	DCE
Silver, TCLP	EPA 7760	mg/l	0.5	ND	12/18/90	DCE
-- SERIES 35000						
Total Metals Prep: Aqueous ICP	EPA 3010			N/A	12/12/90	HH
Total Metals Prep: Aqueous AA Flame	EPA 3010			N/A	12/12/90	HH
Total Metals Prep: Aqueous Furnace	EPA 3020			N/A	12/12/90	HH
Total Metals Prep: Aqueous, Hg	EPA 7470			N/A	12/12/90	HH
TCLP EXTRACTION	EPA 1311			N/A	12/12/90	HH

Signed

Com. B. [Signature]

December 28, 1990



LAW ENGINEERING

GEOTECHNICAL, ENVIRONMENTAL
& CONSTRUCTION MATERIALS
CONSULTANTS

Environmental Contractors
1001 S. Marshall Street
Suite 122
Winston-Salem, North Carolina 27101

Attention: Mr. James I. Brown

Subject: Report of Soil Sampling
Four Underground Storage Tanks
Auto Supply Store
Winston-Salem, North Carolina
Law Engineering Job No. GB-1389

Dear Mr. Brown:

As authorized by your acceptance of our work authorization sheet, Law Engineering has completed the soil sampling activities performed in conjunction with removal of the four underground storage tanks formerly located at the Auto Supply Store. This report, includes a description of our activities, the results obtained, and our conclusions and recommendations.

Law Engineering appreciates the opportunity to provide our environmental services at this site. If you have any questions concerning this report, or if we can be of further service, please contact us.

Sincerely,

LAW ENGINEERING

Alan Cundiff ^{MAL}

Alan Cundiff
Environmental Scientist

James D. Rudder, Jr.
James D. Rudder, Jr., P.G.
Manager, Environmental Department

Robert E. Smith, Jr. ^{MAL}

Robert E. Smith, Jr., P.E.
Chief Engineer

AC/JDR/RES;bp

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