

POINDEXTER LUMBER COMPANY  
1805 SOUTH STRATFORD ROAD; WINSTON-SALEM, NC  
UST CLOSURE ASSESSMENT  
AUGUST 15, 1991

Prepared By:  
ENGINEERING TECTONICS, P.A.

Poindexter Lumber Company  
1805 South Stratford Road  
UST Closure Assessment  
August 21, 1991  
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## INTRODUCTION

This report outlines the actions taken during the closure of two UST systems at Poindexter Lumber Company's site located at 1805 South Stratford Road in Winston-Salem, North Carolina.

Poindexter Lumber Company contracted the services of M & M Pump and Tank Company to perform the removal of the tanks. Engineering Tectonics was retained to perform the required assessment (40 CFR, Sub-Part G Section 280.72) of the underground storage tank site.

## SITE DESCRIPTION

The UST site is located at 1805 South Stratford Road in Winston-Salem, North Carolina. Figure 1 is a site map indicating the former locations of the tanks. Figures 2 and 3 detail the UST areas and provide sample location information.

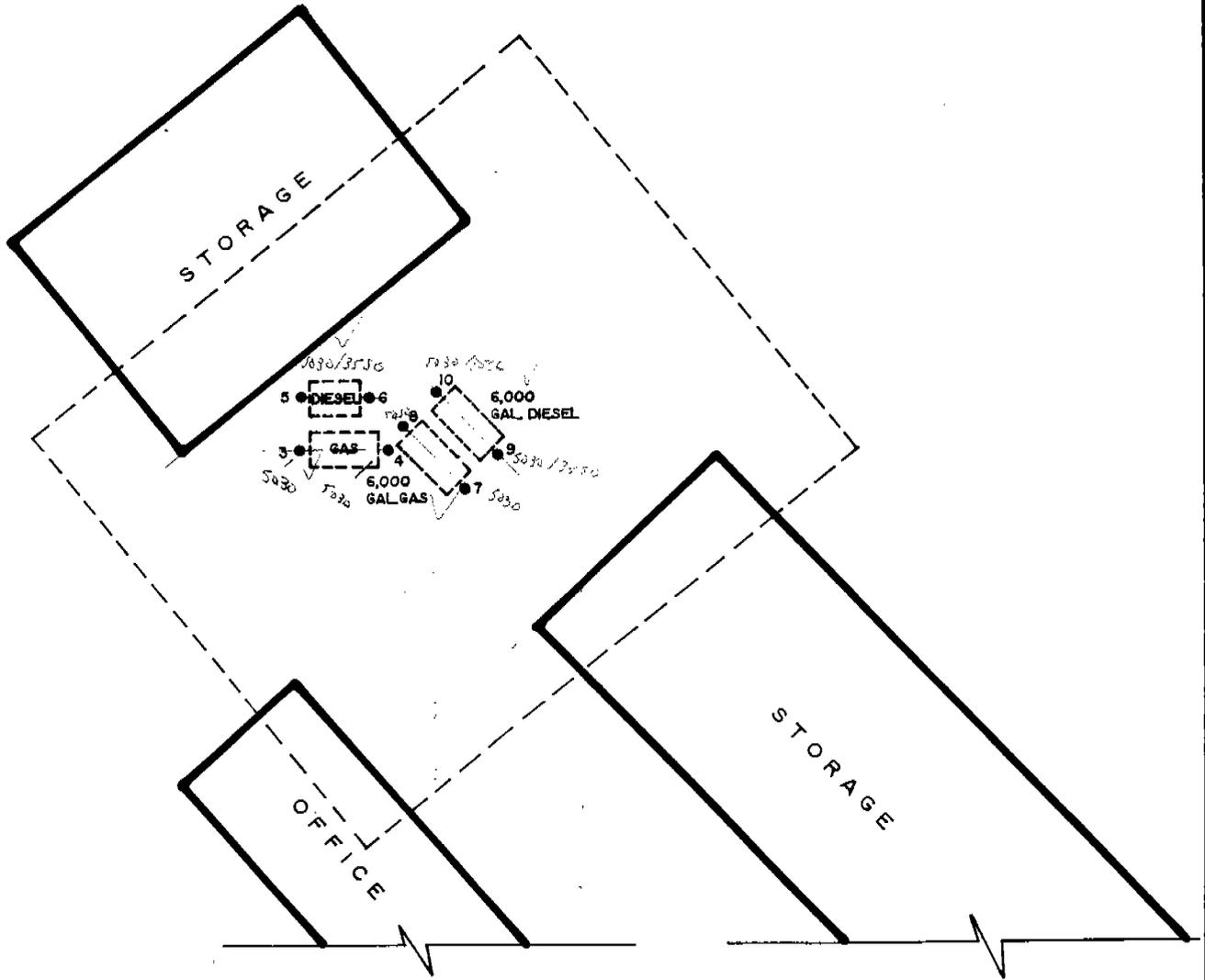
Four USTs, as depicted in Figure 2, were known to exist at the site. A Notification of Intent to Close these four tanks was submitted to the Winston-Salem Regional Office of the Division of Environmental Management (WSRO). Between the time of notification and the date of the scheduled closure, two additional tanks were discovered at the site in the area depicted in Figure 3. A seventh tank was found at the site, buried underneath the southern-most of the two tanks in Figure 3. During telephone conversations with Tom Salley of the WSRO, permission was requested to close by removal the three tanks which were located at the site but for which Notification of Closure had not been submitted 30 days prior to the date of closure. Based on the fact that notification had been submitted for other tanks at the same site, and because of the obvious cost savings involved both for Poindexter Lumber in not having to pay for mobilization of heavy equipment twice and the time savings for the WSRO in not having to review two separate sets of Closure Notifications and Assessments for the same site, Mr. Salley consented to allow the closure of these three tanks without 30 days prior notification.

## TANK REMOVAL

On June 24, 1991, personnel from M & M Pump and Tank began excavation of the tanks. Once the upper portions of each tank was exposed, all connecting pipes were carefully removed from the tank and the resulting openings were closed by installing expansion plugs. Completion of the excavation and tank removal procedures were then performed. The seven tanks were removed over a three day period.

Inspection of the tanks indicated that they were, with one exception, in good condition, the only apparent weathering being insignificant scaling. The one exception being the deeply buried tank shown in Figure 3. This tank was extremely corroded and the walls buckled during removal. It was noted that this tank had no lines connected to it at the time it was unearthed and was probably therefore not technically a part of the UST system.



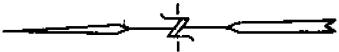


**LEGEND**

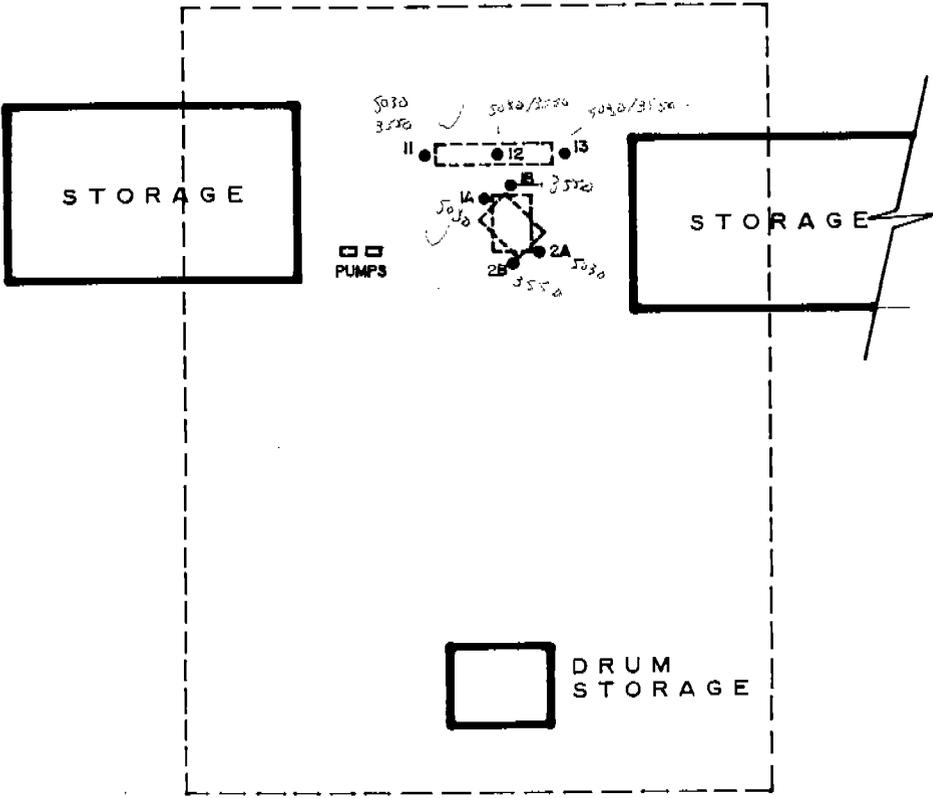
● SOIL SAMPLE

<b>ENGINEERING TECTONICS, P.A.</b> ENGINEERS • GEOLOGISTS • HYDROLOGISTS P.O. Box 11846, Winston-Salem, NC 27106	<b>POINDEXTER LUMBER COMPANY</b> WINSTON-SALEM, NORTH CAROLINA	
	<b>LOCATION OF UST's</b>	
	91-279E	7-9-91
	<b>DRAWN BY:</b> JH	<b>APPROVED BY:</b>
	<b>SCALE 1" = 40'</b>	
<b>FIGURE 2</b>		





FARAWAY FARM ROAD



LEGEND

● SOIL SAMPLE

ENGINEERING TECTONICS, P.A. ENGINEERS • GEOLOGISTS • HYDROLOGISTS P.O. Box 11848, Winston-Salem, NC 27116	<b>POINDEXTER LUMBER COMPANY</b> WINSTON-SALEM, NORTH CAROLINA	
	<b>LOCATION OF UST's</b>	
	91-279E	7-9-91
	DRAWN BY: JH	APPROVED BY:
	SCALE 1" = 40'	
<b>FIGURE 3</b>		

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## SOIL SAMPLING

All samples collected from the site were taken from the saprolite soils beneath the tanks.

Soil samples were generally collected from approximately 2 feet below the original locations of each end of each tank. There were two exceptions. One set of two soil samples was collected to represent the two tanks which were located one beneath the other. These soil samples were collected beneath the lower tank location. For the one tank which exceeded 20 feet in length, a set of three soil samples were collected: one from beneath each end of the tank and a third from beneath the center of the tank. Soil samples were collected by hand from the backhoe bucket. The sample collector wore clean disposable vinyl gloves for the collection of each sample. Thirteen soil samples were placed in clean glass jars and sealed with teflon lined polypropylene lids for laboratory analysis.

## LABORATORY ANALYSES

The soil samples collected from the ends of the tanks which formerly contained diesel fuel were split into two aliquots. One aliquot from each sample was prepared by extraction via EPA Method 5030. The other aliquot was prepared by extraction using EPA Method 3550. Analyses of each aliquot were performed using gas chromatography according to EPA Method 8020. Gas chromatograms were analyzed to detect signatures for diesel fuel.

The soil samples collected from the ends of the tanks which formerly contained gasoline were prepared by extraction via EPA Method 5030. Analyses were performed using gas chromatography according to EPA Method 8020. Gas chromatograms were analyzed to detect signatures for gasoline.

The laboratory analyses were performed by Shealy Environmental Services, Inc. of Columbia, South Carolina. Their North Carolina DEM Laboratory Certification Number is 001.

A copy of the laboratory analyses is appended to this report.

## RESULTS AND CONCLUSIONS

The report of results of laboratory analyses indicates that Petroleum Hydrocarbons were present at a concentration of 7.4 ppm in one soil sample. No Petroleum Hydrocarbons (either gasoline or diesel fuel) were present at the detectable concentration of 5 ppm in any of the other samples.

The UST systems belonging to Poindexter Lumber Company at their 1805 South Stratford Road location in Winston-Salem, North Carolina have been permanently closed by removal according to the procedures required by 40 CFR. This report and the assessments it represents complete the requirements of 40 CFR for these UST systems. As no contaminants were detected above the action level of 10 ppm at the site, no further action is required.

APPENDIX II  
LABORATORY ANALYSES

# SHEALY ENVIRONMENTAL SERVICES, INC.

BIOLOGISTS, TOXICOLOGISTS & CHEMISTS

400 GRAYMONT AVENUE  
COLUMBIA, SOUTH CAROLINA 29205  
(803) 254-9915

SC DHEC CERTIFICATION NO. 26103  
NC DEM NO. 001  
Fax (803) 254-9107

## CERTIFICATE OF ANALYSIS

Client:

ENGINEERING TECTONICS  
P.O. Box 11846  
Winston-Salem, NC 27116

Project Name

Poindexter-Stratford/J. Braun

Attention:

Jeff Wyatt

Laboratory No.

Sample Description

91-5044	S-1A; Collected 06/26/91 at 1330
90-5045	S-1B; Collected 06/26/91 at 1335
90-5046	S-2A; Collected 06/26/91 at 1340
90-5047	S-2B; Collected 06/26/91 at 1345
91-5048	S-3; Collected 06/26/91 at 1355
90-5049	S-4; Collected 06/26/91 at 1405
91-5050	S-7; Collected 06/27/91 at 1330
91-5051	S-8; Collected 06/27/91 at 1340
91-5052	S-5; Collected 06/26/91 at 1415
91-5053	S-6; Collected 06/26/91 at 1430
91-5054	S-9; Collected 06/27/91 at 1350
91-5055	S-10; Collected 06/27/91 at 1400
91-5056	S-11; Collected 06/28/91 at 1015
91-5057	S-12; Collected 06/28/91 at 1025
91-5058	S-13; Collected 06/28/91 at 1035
91-5059	DW-1; Collected 06/28/91 at 1055
91-5060	DW-2; Collected 06/28/91 at 1105
91-5061	OG-1; Collected 06/28/91 at 0915
91-5062	OG-2; Collected 06/28/91 at 0945
91-5063	OG-3; Collected 06/28/91 at 1045

Date Received:

07/01/91

Date Reported:

07/17/91

QA/QC Officer: 

Continued on Page 2

Date Reported:  
Client:

07/17/91  
ENGINEERING TECTONICS

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PARAMETER	RESULTS				
	91-5044	90-5045	90-5046	90-5047	91-4008
TPH as Diesel-5030 (mg/kg)	<1.0		<1.0		
TPH as Diesel-3550 (mg/kg)		<5.0		<5.0	
TPH as Gasoline-5030 (mg/kg)					<1.0
Oil & Grease (mg/kg)					

PARAMETER	RESULTS				
	91-5049	91-5050	91-5051	91-5052	91-5053
TPH as Diesel-5030 (mg/kg)				7.4	<1.0
TPH as Diesel-3550 (mg/kg)				<5.0	<5.0
TPH as Gasoline-5030 (mg/kg)	<1.0	<1.0	<1.0		
Oil & Grease (mg/kg)					

PARAMETER	RESULTS				
	91-5054	91-5055	91-5056	91-5057	91-5058
TPH as Diesel-5030 (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0
TPH as Diesel-3550 (mg/kg)	<5.0	<5.0	<5.0	<5.0	<5.0
TPH as Gasoline-5030 (mg/kg)					
Oil & Grease (mg/kg)					

Continued on Page 3

Date Reported:  
Client:

07/17/91  
ENGINEERING TECTONICS

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RESULTS

PARAMETER

91-5059 91-5060 91-5061 91-5062 91-5063

TPH as Diesel-5030 (mg/kg)  
TPH as Diesel-3550 (mg/kg)  
TPH as Gasoline-5030 (mg/kg)  
Oil & Grease (mg/kg)

<1.0 <1.0 <1.0 <1.0 <1.0

TCLP METALS (mg/l)

Arsenic  
Barium  
Cadmium  
Chromium  
Lead  
Mercury  
Selenium  
Silver

<0.200  
<0.200  
<0.200  
<0.200  
<0.200  
<0.200  
<0.200  
<0.200

PARAMETER

Analyst Date Analyzed

TPH as Diesel-5030 (mg/kg)  
TPH as Diesel-3550 (mg/kg)  
TPH as Gasoline-5030 (mg/kg)  
Oil & Grease (mg/kg)

WAM 07/04/91  
JGC 07/04/91  
WAM 07/04/91  
MDE 07/03/91

TCLP METALS (mg/l)

Arsenic  
Barium  
Cadmium  
Chromium  
Lead  
Mercury  
Selenium  
Silver

VTB 07/11/91

07/10/91

Reported by



Michael A. Woodrum, Laboratory Director

POINDEXTER, STRATFORD  
 400 Graymont Avenue  
 Columbia, South Carolina 29205  
 Telephone No. (803) 254-9915 Fax No. (803) 254-9107

Address 2518 Reynolds Road  
WINSTON-SALEM, NC 27106  
 Attention J. BRAUN  
 Telephone No. (311) 727-0663 P.O. No. POINDEXTER

**CHAIN OF CUSTODY RECORD**

**SAMPLE ANALYSIS REQUIRED**

*SP/SEA*

Sample ID (Location)	Yr. DATE	TIME	WELL SOLID COMP GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify	← PRESERVATION (CODE)	REMARKS	SESI LAB USE ONLY	
																								CODE: A = None B = HNO3 C = H2SO4 D = NaOH E =
S-1A	6-26	1:30		1																		5030/8020 Report Diesel	91-5044	
S-1B	6-26	1:35		1																		355D/GC-FID Report Diesel	91-5043	
S-2A	6-26	1:40		1																		5030/8020 Report Diesel	91-5042	
S-2B	6-26	1:45		1																		355D/GC-FID Report Diesel	91-5041	
S-3	6-26	1:55		1																		5030/8020	91-5040	
S-4	6-26	2:05		1																		Report TPH as Gas	91-5039	
S-7	6-27	1:30		1																			91-5050	
S-8	6-27	1:40		1																			91-5051	
S-5	6-26	2:15		1																			91-5052	
S-6	6-26	2:30		1																			Report TPH as Diesel	91-5053
S-9	6-27	1:50		1																			355D/GC-FID	91-5054
S-10	6-27	2:00		1																			Report TPH as Diesel	91-5055
SAMPLER Relinquished by (Sig.) <u>Julian M. Brown</u>		Date/Time <u>6-27-91</u>	Date/Time <u>5:30 PM</u>	Received by (Sig.) <u>[Signature]</u>		Hazards Associated with Sample																		
Relinquished by (Sig.)		Date/Time	Date/Time	Received by (Sig.) <u>[Signature]</u>		Tag Receipt by (Sig.) <u>[Signature]</u>																		
Relinquished by (Sig.)		Date/Time	Date/Time	Received by (Sig.)		Custody Seal Intact (circle) YES NO NONE																		

**SHEALY ENVIRONMENTAL SERVICES, INC.**  
 400 Graymont Avenue  
 Columbia, South Carolina 29205  
 Telephone No. (803) 254-9915 Fax No. (803) 254-9107

Client Name ENGINEERING TECHNOLOGICS

Address 2518 REYNOLDA ROAD

WINSTON-SALEM, NC 27106

Attention POINDEXTER - STAFFORD

Telephone No. (919) 727-6063 P.O. No. \_\_\_\_\_

**CHAIN OF CUSTODY RECORD**

**SAMPLE ANALYSIS REQUIRED**

Sample ID (Location)	Yr. DATE	TIME	# of containers				pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/CBS - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify	← PRESERVATION (CODE)	LAB USE ONLY	
			WELL	SOLID	COMP	GRAB																			
S-11	6-28	10:15	X	X	X	X																		5030/8020 REPORT DIESEL AND 35576/GC.PID REPORT DIESEL 91-5056	91-5056
S-12	6-28	10:25	X	X	X	X																		91-5057	
S-13	6-28	10:35	X	X	X	X																		91-5058	
DW-1	6-28	10:35	X	X	X	X																		91-5059	
DW-2	6-28	11:05	X	X	X	X																		91-5060	
OG-1	6-28	9:15	X	X	X	X																		91-5061	
OG-2	6-28	9:45	X	X	X	X																		91-5062	
OG-3	6-28	10:45	X	X	X	X																		91-5063	

IF SUFFICIENT SAMPLE LEFT AFTER 9071 ANALYSES, COMPOSITE REMAINDER & ANALYZE TELL METALS

9071 REPORT OIL & GREASE

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Hazards Associated with Sample	Receipt		
				TRC	pH	Temp. °C
Relinquished by (Sig.) <u>Julian M. Dixon</u> Date/Time <u>6-28-91 4:30pm</u>		Received by (Sig.) _____ Date/Time _____		Receipt TRC _____ mg/l	Receipt pH _____ su	Receipt Temp. _____ °C
Relinquished by (Sig.) <u>[Signature]</u> Date/Time <u>7/19/91 10:19</u>		Received by (Sig.) <u>Debra M. Wilson</u> Date/Time _____		Custody Seal Intact (circle) YES NO NONE		

*SP/SAD*