Celebrating 25 Years of Excellence

October 19, 1998

North Carolina Dept. of Transportation
Geotechnical Unit
Century Center
1020 Birch Ridge Drive
Raleigh, North Carolina 27610

Attention: Ms. Eileen Fuchs

Reference: NCDOT – Amtrak
Phase II Environmental Site Assessment
NCDOT Project 9.908024P
Lots 8 – 12 (Mallory R. McKeithen Property)
Charlotte, North Carolina
S&ME Project 1040-98-110

Dear Ms. Fuchs:

S&ME, Inc. (S&ME) has completed the Phase II Environmental Site Assessment (ESA) at the referenced site. Soil and groundwater sampling was performed in a effort to evaluate the presence of possible contaminants associated with past uses on and adjacent to the property. Sampling locations were selected based on past uses as identified by a review of historical Sanborn Fire Insurance Maps. The results indicate the presence of contaminants in the soil at concentrations above North Carolina Department of Environment and Natural Resource's (NCDENR) and United States Environmental Protection Agency's (USEPA) regulatory levels. The results did not indicate the presence of contaminants in groundwater at the sampling locations. The scope of work and the results are discussed in further detail below.

Site Location

The site is located in Charlotte, Mecklenburg County, North Carolina (Figure 1). The specific properties are bounded by Smith Street to the southeast, West 9th Street to the northeast, railroad tracks to the northwest and include an area just southwest of west 7th Street (Figure 2).

S&ME, Inc. 9751 Southern Pine Boulevard, Charlotte, North Carolina 28273, (704) 523-4726, Fax (704) 525-3953
Mailing address: P.O. Box 7668, Charlotte, North Carolina 28241-7668

Sanborn Map Review

S&ME obtained Sanborn Fire Insurance Maps for the reference properties and adjacent properties. The years of coverage included 1885, 1890, 1896, 1900, 1905, 1911, 1929, 1950, 1953 and 1963. Portions of selected Sanborn maps and the local tax parcel map are included in Appendix I. Based on maps, areas of concern within and adjacent to the property included the following at the locations indicated on Figure 3:

- a former furniture warehouse and fertilizer mixing facility in the northeast corner;
- a former truck assembly facility in the northeast portion of the site;
- a former textile facility in the northwest portion of the site that included a painting area, a machine shop and a boiler (suspected to have used fuel oil);
- a former waste tank (of unknown use) approximately located in the north-central portion of the site;
- a former lime and soda storage area near the railroad tracks;
- a former engine repair facility in the southwest portion of the site; and
- former above ground oil tanks located adjacent to and north of the property across West 9th Street.

Soil and groundwater samples were collected within or near these areas of concern for the analysis of volatile and semi-volatile organics using EPA Methods 8260 and 8270. Samples were collected using a Geoprobe^{TM} unit. Sampling tools were decontaminated between samples using a steam cleaner. Initially, eight soil samples were collected from locations GP-1 through GP-8. Based on the organic vapor readings from the soil samples using a Organic Vapor Analyzer (OVA), five additional soil samples were collected in an effort to evaluate the extent of the suspected contaminants. The OVA data from the soil samples are provided in Table 1. Samples with the highest OVA reading per location (shaded in Table 1) were submitted for laboratory analysis. The lithologies and OVA values are presented on boring logs included in Appendix II.

The depth to groundwater is approximately 20 to 25 feet below land surface. Groundwater samples were collected at depths of 30 feet below land surface at locations GP-1, GP-3 and GP-8, selected to be in the suspected downgradient direction from selected areas.

Soil and Groundwater Quality

No contaminants were detected in the groundwater samples or in the soil samples from GP-9 and GP-13. The contaminants detected in the remaining soil samples are summarized in Table 2. Also included in Table 2 are the NCDENR Maximum Soil Contaminant Concentration (MSCC) and USEPA Risk Based Concentration (RBC) regulatory levels, where available. Detected values exceeding either of the regulatory levels are highlighted as shaded and bold font. Laboratory reports are included in Appendix III.

As indicated in the table, contaminants at concentrations exceeding the available regulatory levels were detected at locations GP-1, GP-3, GP-4, and GP-7. Other contaminants were also detected in GP-1 and GP-12 (acetonitrile) for which regulatory levels were not available. Of the contaminants detected, one of the six EPA Method 8260 target analytes and 14 of the EPA Method 8270 target analytes are indicative of medium to heavy weight petroleum hydrocarbons such as diesel, fuel oil, motor oil and hydraulic oil, etc. Other detected compounds are typically used in textile manufacturing, vulcanizing of rubber, preservation of foods, fungicides and bactericides. Almost all of the non-petroleum contaminants were detected in the sample from GP-1, located in the area of a former textile manufacturing facility indicated by the Sanborn maps.

Conclusions

Based on the depth of the soil samples, OVA readings, and the analytical results, the areas and volumes of impacted soil above regulatory levels are estimated below. Note that these estimates are based on the samples collected and analyzed. Contaminant concentrations may vary between sampling locations and depths. In addition, the presence or absence of contaminants in areas not sampled is unknown.

Samples in Area	Area (m2)	Depth (m)	Volume (m3)
GP-1	130	3.7	480
GP-3 & GP-4	280	3.1	870
GP-7	200	1.9	380

S&ME appreciates the opportunity to provide these services to you on this project. If you have any questions concerning this report, please contact us at your convenience.

Sincerely,

S&ME, Inc.

Gary Birk, P.E.
Senior Engineer

Al Quarles, L.G.
Senior Hydrogeologist

NORTH CAROLINA LICENSED SEAL 1133 GEOLOGIST AL QUARLES

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TABLE 1
SOIL FIELD SCREENING DATA

PHASE II ESA - NCDOT AMTRAK
NCDOT PROJECT 9.908024P
CHARLOTTE, NORTH CAROLINA
S&ME PROJECT 1040-98-110

Sample Depth (m)		Sample ID and OVA Reading (ppm)												
From	To	GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7	GP-8	GP-9	GP-10	GP-11	GP-12	GP-13
0.00	0.61	90	0	30	3	0	NR	**44**	0.8	0	0	0	4	0
0.61	1.22	**110**	0	>1000	**5**	0.2	NR	4	**1**	1	4	0	10	0
1.22	1.83	52	**10**	NR	0	0.8	38	0	0.4	1	36	0	13	4
1.83	2.44	18	0	>1000	0	7	**120**	0	0.4	3	110	**2**	13	**7**
2.44	3.05	36	0	**>1000**	0	10	26	NR	0.2	**5**	**120**	1	**40**	6
3.05	3.66	16	1	12	1	**110**	30	NR	0.2	2	16	0	38	2
3.66	4.27	7	1	8	0	NS	12	26	NS	NS	NS	0	24	NS
4.27	4.88	5	0	7	0	NS	16	3	NS	NS	NS	0	30	NS
4.88	5.49	3	NS	2	0	NS	30	NS	NS	NS	NS	0	32	NS
Ground elevation (m)		222.4	223.7	222.8	223.0	222.6	222.6	222.6	223.1	222.4	222.4	223.0	222.4	222.9

Notes:
m : meter
Ground elevations estimated from City of Charlotte Topographic Maps
OVA : Organic Vapor Analyzer (Foxboro Model 128, Flame Ionization Detector)
ppm : Parts Per Million
NR : No Recovery
NS : Not Sampled
Shaded and Bold values indicate samples for laboratory analysis

TABLE 2
SOIL QUALITY DATA SUMMARY

PHASE II ESA - NCDOT AMTRAK
NCDOT PROJECT 9.908024P
CHARLOTTE, NORTH CAROLINA
S&ME PROJECT 1040-98-110

Sample ID	Regulatory Levels		GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7
Depth (m) (from)	NCDENR	EPA	0.61	1.22	2.44	0.61	3.05	1.83	0.00
(to)	MSCC	RBC	1.22	1.83	2.74	1.22	3.66	2.44	0.61
Parameter / units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EPA Method 8260									
Acetone	2.81	8	---	0.0383	---	0.0398	0.0277	0.0431	0.108
Acetonitrile	NRL	NRL	---	---	---	---	---	---	---
2-Butanone (MEK)	0.69	NRL	---	---	---	---	---	---	0.0132
Carbon Disulfide	4.94	14							
Methylene Chloride	0.022	0.01	**0.708**	---	**0.795**	---	---	---	---
Naphthalene	0.58	30	**0.866**	---	**1.09**	---	---	---	0.0277
TOTAL 8260			1.574	0.0383	1.885	0.0398	0.0277	0.0431	0.1489
EPA Method 8270									
Acenaphthene	8	200	2.82	---	5.46	---	---	---	---
Acenaphthylene	11	NRL	0.795	---	---	---	---	---	---
4-Aminobiphenyl	NRL	---	0.917	---	---	---	---	---	---
Anthracene	995	4300	0.685	---	---	0.409	---	---	0.479
Benzoic Acid	NRL	280	0.577	---	---	---	---	---	---
Benzo(a)anthracene	0.34	0.7	**1.43**	---	**9.29**	**1.42**	---	---	**1.02**
Benzo(b&k)fluoranthene	1	4	**2.87**	---	**14.9**	**2.23**	---	---	**1.21**
Benzo(g,h,i)pyrylene	6720	NRL	1.8	---	7.47	1.09	---	---	0.695
Benzo(a)pyrene	0.091	4	**1.55**	---	**6.9**	**1.25**	---	---	**0.842**
bis(2-Chloroethyoxy)methane	NRL	NRL	0.546	---	---	---	---	---	---
1-Chloronaphthalene	NRL	NRL	0.567	---	---	---	---	---	---
2-Chloronaphthalene	NRL	140	0.496	---	---	---	---	---	---
4-Chlorophenylphenylether	NRL	NRL	0.932	---	---	---	---	---	---
Chrysene	38	1	**1.93**	---	**13.2**	**1.31**	---	---	**1.06**
Dibenzo(a,h)anthracene	0.17	11	**0.517**	---	---	---	---	---	---
Dibenzofuran	NRL	120	1.01	---	---	---	---	---	---
4,6-Dinitro-2-methylphenol	NRL	NRL	0.55	---	---	---	---	---	---
2,4-Dinitrophenol	NRL	0.1	**0.57**	---	---	---	---	---	---
2,4-Dinitrotoluene	NRL	0.2	**0.839**	---	---	---	---	---	---
2,6-Dinitrotoluene	NRL	0.1	**1.12**	---	---	---	---	---	---
Diphenylamine	NRL	NRL	1.51	---	---	---	---	---	---

TABLE 2
SOIL QUALITY DATA SUMMARY

PHASE II ESA - NCDOT AMTRAK
NCDOT PROJECT 9.908024P
CHARLOTTE, NORTH CAROLINA
S&ME PROJECT 1040-98-110

Sample ID	Regulatory Levels		GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7
Depth (m) (from)	NCDENR	EPA	0.61	1.22	2.44	0.61	3.05	1.83	0.00
(to)	MSCC	RBC	1.22	1.83	2.74	1.22	3.66	2.44	0.61
Parameter / units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Fluoranthene	276	980	3.77	---	15.7	2.54	---	0.566	1.84
Fluorene	44	160	2.19	---	---	---	---	---	---
Indeno(1,2,3-c,d)pyrene	3	NRL	1.44	---	**6.82**	0.887	---	---	0.524
Isophorone	NRL	35	1.6	---	---	---	---	---	---
2-Methylnaphthalene	3	NRL	**3.27**	---	---	---	---	---	---
Naphthalene	0.58	30	**0.773**	---	---	---	---	---	---
1-Naphthylamine	NRL	NRL	0.772	---	---	---	---	---	---
2-Naphthylamine	NRL	NRL	0.79	---	---	---	---	---	---
2-Nitroaniline	NRL	NRL	0.982	---	---	---	---	---	---
3-Nitroaniline	NRL	NRL	0.753	---	---	---	---	---	---
4-Nitroaniline	NRL	NRL	0.877	---	---	---	---	---	---
2-Nitrophenol	NRL	NRL	0.488	---	---	---	---	---	---
4-Nitrophenol	NRL	NRL	0.663	---	---	---	---	---	---
N-Nitroso-di-butylamine	NRL	NRL	3.45	---	---	---	---	---	---
N-Nitrosodiphenylamine	NRL	0.2	**0.917**	---	---	---	---	---	---
N-Nitrosopiperidine	NRL	NRL	0.533	---	---	---	---	---	---
Phenacetin	NRL	NRL	1.43	---	---	---	---	---	---
Phenathrene	60	NRL	4.35	---	12.5	1.97	---	0.463	1.97
Pyrene	286	1400	3.09	---	23.7	2.17	---	0.559	2.4
2,4,5-Trichlorophenol	NRL	120	0.98	---	---	---	---	---	---
TOTAL 8270			57.149	---	115.94	15.276	---	1.588	12.04

Notes:
m : meter
--- : Below laboratory quantitation limit
Other parameters not listed were not detected using EPA Method 8260/8270
NCDENR MSCC : Maximum Soil Contaminant Concentration Soil-to-Groundwater Value
EPA RBC : EPA Risk Based Concentration Soil-to-Groundwater Value
Shaded and bold values indicate exceedance of lower of the NCDENR MSCC or EPA RBC value
NA : Not Analyzed
NRL : No Reported Level

TABLE 2
SOIL QUALITY DATA SUMMARY

PHASE II ESA - NCDOT AMTRAK
NCDOT PROJECT 9.908024P
CHARLOTTE, NORTH CAROLINA
S&ME PROJECT 1040-98-110

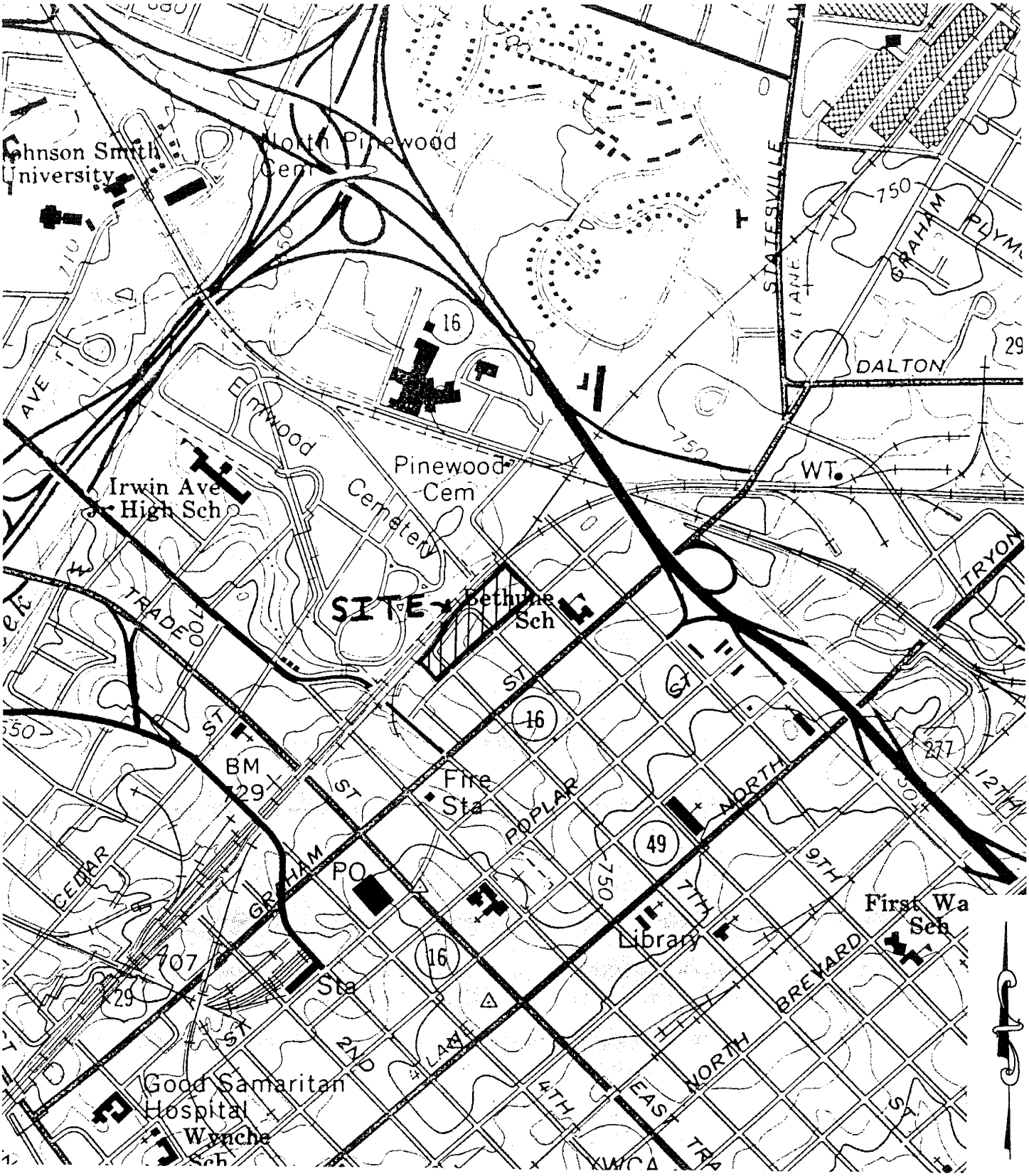
Sample ID	Regulatory Levels		GP-8	GP-9	GP-10	GP-11	GP-12	GP-13
Depth (m) (from)	NCDENR	EPA	0.61	2.44	2.44	1.83	2.44	1.83
(to)	MSCC	RBC	1.22	3.05	3.05	2.44	3.05	2.44
Parameter / units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EPA Method 8260								
Acetone	2.81	8	---	---	---	---	0.0468	---
Acetonitrile	NRL	NRL	---	---	---	---	0.0891	---
2-Butanone (MEK)	0.69	NRL	---	---	---	---	0.0065	---
Carbon Disulfide	4.94	14		---	0.0221	---	---	---
Methylene Chloride	0.022	0.01	---	---	---	---	---	---
Naphthalene	0.58	30	0.0142	---	---	---	---	---
TOTAL 8260			0.0142	---	0.0221	---	0.1424	---
EPA Method 8270								
Acenaphthene	8	200	---	---	---	---	---	---
Acenaphthylene	11	NRL	---	---	---	---	---	---
4-Aminobiphenyl	NRL	---	---	---	---	---	---	---
Anthracene	995	4300	---	---	---	---	---	---
Benzoic Acid	NRL	280	---	---	---	---	---	---
Benzo(a)anthracene	0.34	0.7	---	---	---	---	---	---
Benzo(b&k)fluoranthene	1	4	---	---	---	---	---	---
Benzo(g,h,i)pyrylene	6720	NRL	---	---	---	---	---	---
Benzo(a)pyrene	0.091	4	---	---	---	---	---	---
bis(2-Chloroethyoxy)methane	NRL	NRL	---	---	---	---	---	---
1-Chloronaphthalene	NRL	NRL	---	---	---	---	---	---
2-Chloronaphthalene	NRL	140	---	---	---	---	---	---
4-Chlorophenylphenylether	NRL	NRL	---	---	---	---	---	---
Chrysene	38	1	---	---	---	---	---	---
Dibenzo(a,h)anthracene	0.17	11	---	---	---	---	---	---
Dibenzofuran	NRL	120	---	---	---	---	---	---
4,6-Dinitro-2-methylphenol	NRL	NRL	---	---	---	---	---	---
2,4-Dinitrophenol	NRL	0.1	---	---	---	---	---	---
2,4-Dinitrotoluene	NRL	0.2	---	---	---	---	---	---
2,6-Dinitrotoluene	NRL	0.1	---	---	---	---	---	---
Diphenylamine	NRL	NRL	---	---	---	---	---	---

TABLE 2
SOIL QUALITY DATA SUMMARY

PHASE II ESA - NCDOT AMTRAK
NCDOT PROJECT 9.908024P
CHARLOTTE, NORTH CAROLINA
S&ME PROJECT 1040-98-110

Sample ID	Regulatory Levels		GP-8	GP-9	GP-10	GP-11	GP-12	GP-13
Depth (m) (from)	NCDENR	EPA	0.61	2.44	2.44	1.83	2.44	1.83
(to)	MSCC	RBC	1.22	3.05	3.05	2.44	3.05	2.44
Parameter / units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Fluoranthene	276	980	---	---	---	0.459	---	---
Fluorene	44	160	---	---	---	---	---	---
Indeno(1,2,3-c,d)pyrene	3	NRL	---	---	---	---	---	---
Isophorone	NRL	35	---	---	---	---	---	---
2-Methylnaphthalene	3	NRL	---	---	---	---	---	---
Naphthalene	0.58	30	---	---	---	---	---	---
1-Naphthylamine	NRL	NRL	---	---	---	---	---	---
2-Naphthylamine	NRL	NRL	---	---	---	---	---	---
2-Nitroaniline	NRL	NRL	---	---	---	---	---	---
3-Nitroaniline	NRL	NRL	---	---	---	---	---	---
4-Nitroaniline	NRL	NRL	---	---	---	---	---	---
2-Nitrophenol	NRL	NRL	---	---	---	---	---	---
4-Nitrophenol	NRL	NRL	---	---	---	---	---	---
N-Nitroso-di-butylamine	NRL	NRL	---	---	---	---	---	---
N-Nitrosodiphenylamine	NRL	0.2	---	---	---	---	---	---
N-Nitrosopiperidine	NRL	NRL	---	---	---	---	---	---
Phenacetin	NRL	NRL	---	---	---	---	---	---
Phenathrene	60	NRL	---	---	---	---	---	---
Pyrene	286	1400	---	---	---	---	---	---
2,4,5-Trichlorophenol	NRL	120	---	---	---	---	---	---
TOTAL 8270			---	---	---	0.459	---	---

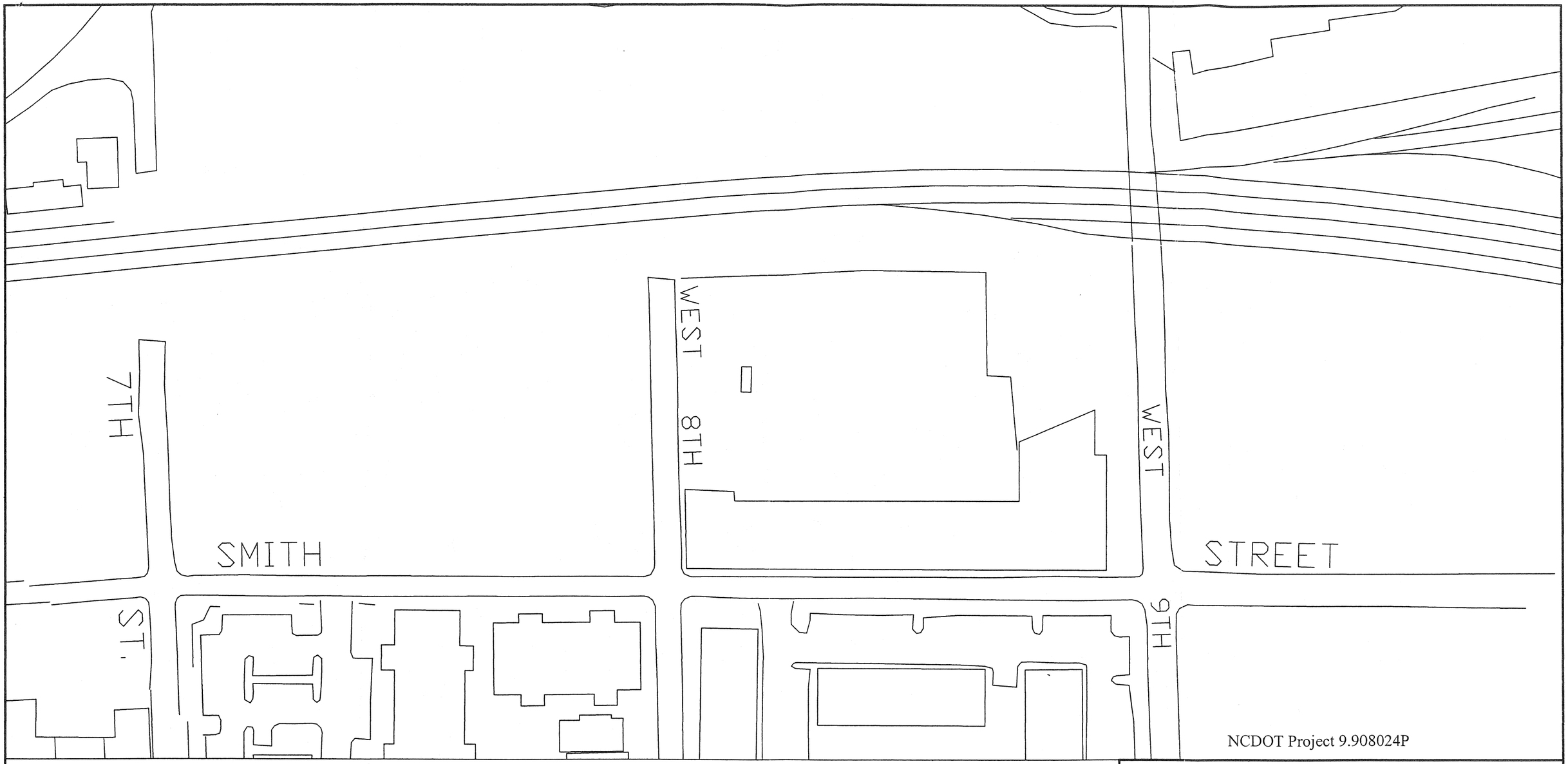
Notes:
m : meter
--- : Below laboratory quantitation limit
Other parameters not listed were not detected using EPA Method 82
NCDENR MSCC : Maximum Soil Contaminant Concentration Soil-t
EPA RBC : EPA Risk Based Concentration Soil-to-Groundwater Val
Shaded and bold values indicate exceedance of lower of the NCDEN
NA : Not Analyzed
NRL : No Reported Level



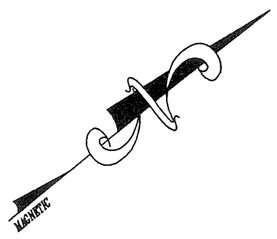
1 .5 0

ELEVATIONS IN FEET SCALE IN KILOMETERS NCDOT PROJECT 9.908024P

SCALE: AS SHOWN	S&ME ENVIRONMENTAL SERVICES ENGINEERING · TESTING	**AREA MAP**	FIGURE NO.
CHECKED BY:		NCDOT – AMTRAK STATION CHARLOTTE, NORTH CAROLINA	1
DRAWN BY: WAQ		JOB NO: 1040-98-110	
DATE: 10/12/98			



NCDOT Project 9.908024P



METERS
0 20 40 60
0 100 200
FEET

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING • TESTING

SITE LOCATION MAP

NCDOT – AMTRAK
CHARLOTTE, NORTH CAROLINA

SCALE:	DRAWN BY:	CHECKED BY:
AS SHOWN	WAQ	
JOB NO.	DATE:	FIGURE NO.
1040-98-110	9/1/98	2

GP-8

ENGINE REPAIR

GP-7

LIME & SODA STORAGE

GP-6

GP-12

BOILER

GP-5

GP-3

GP-13

GP-11

WASTE TANK

TEXTILE

GP-10

GP-1

GP-9

MACHINE SHOP

GP-4

PAINTING

OIL ASTS

WEST 8TH

GP-2

TRUCK ASSEMBLY

BUS TERMINAL

FURNITURE WAREHOUSE AND FERTILIZER MIXING

WEST

STRE

MAGNETIC

METERS
0 10 20 30
0 50 100
FEET

GP-1 GEOPROBE SAMPLE LOCATION

BOILER AREA OF CONCERN FROM SANBORN MAPS

NCDOT Project 9.908024P

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING • TESTING

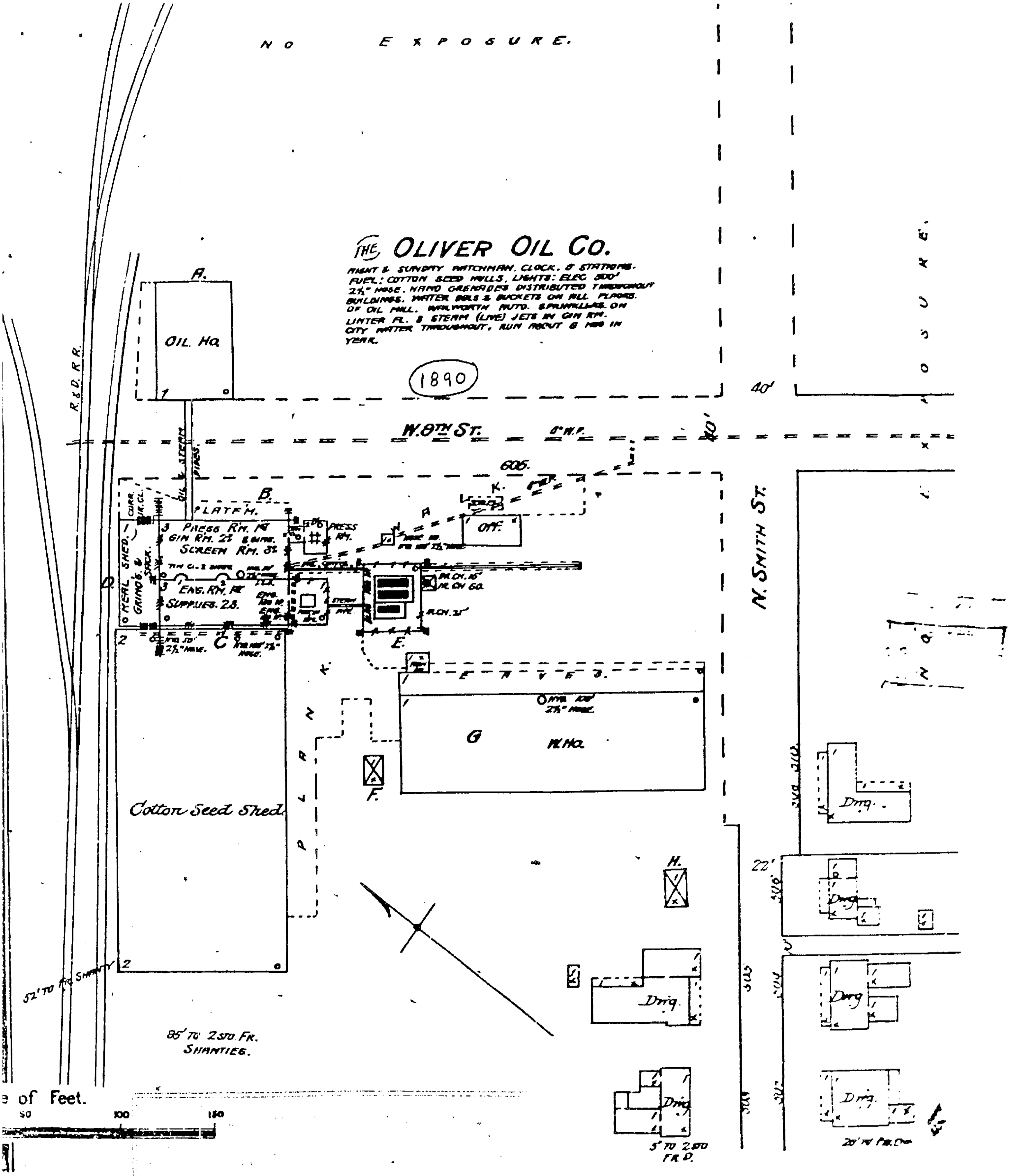
SAMPLING LOCATIONS

NCDOT – AMTRAK
CHARLOTTE, NORTH CAROLINA

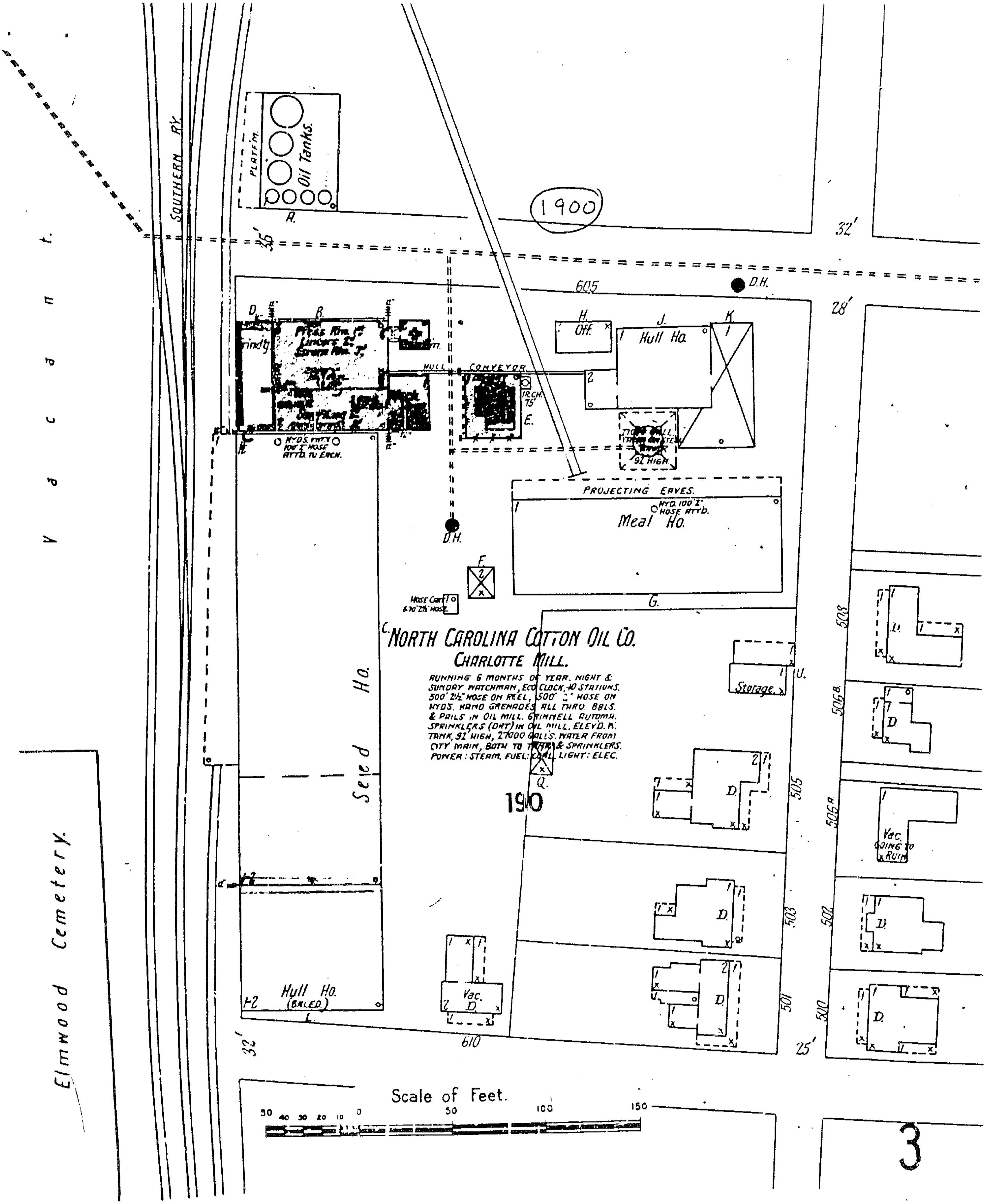
SCALE:	DRAWN BY:	CHECKED BY:
AS SHOWN	WAQ	
JOB NO.	DATE:	FIGURE NO.
1040-98-110	9/1/98	3

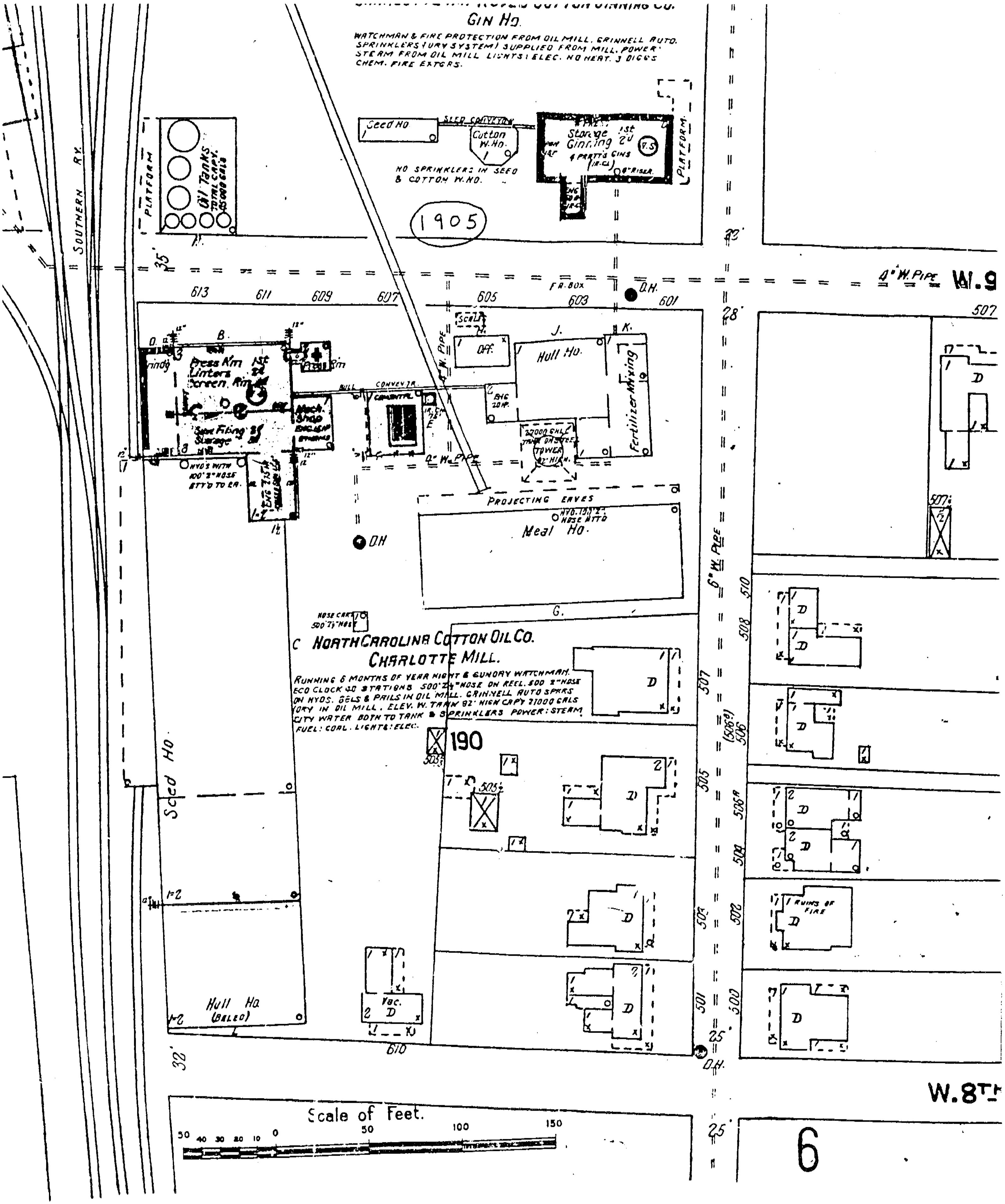
TAX PARCEL MAP
FROM NCDOT
PROPOSED AMTRAK STATION
NCDOT PROJECT 9.908024P
MCKEITHEN PROPERTY
LOTS 8 – 12

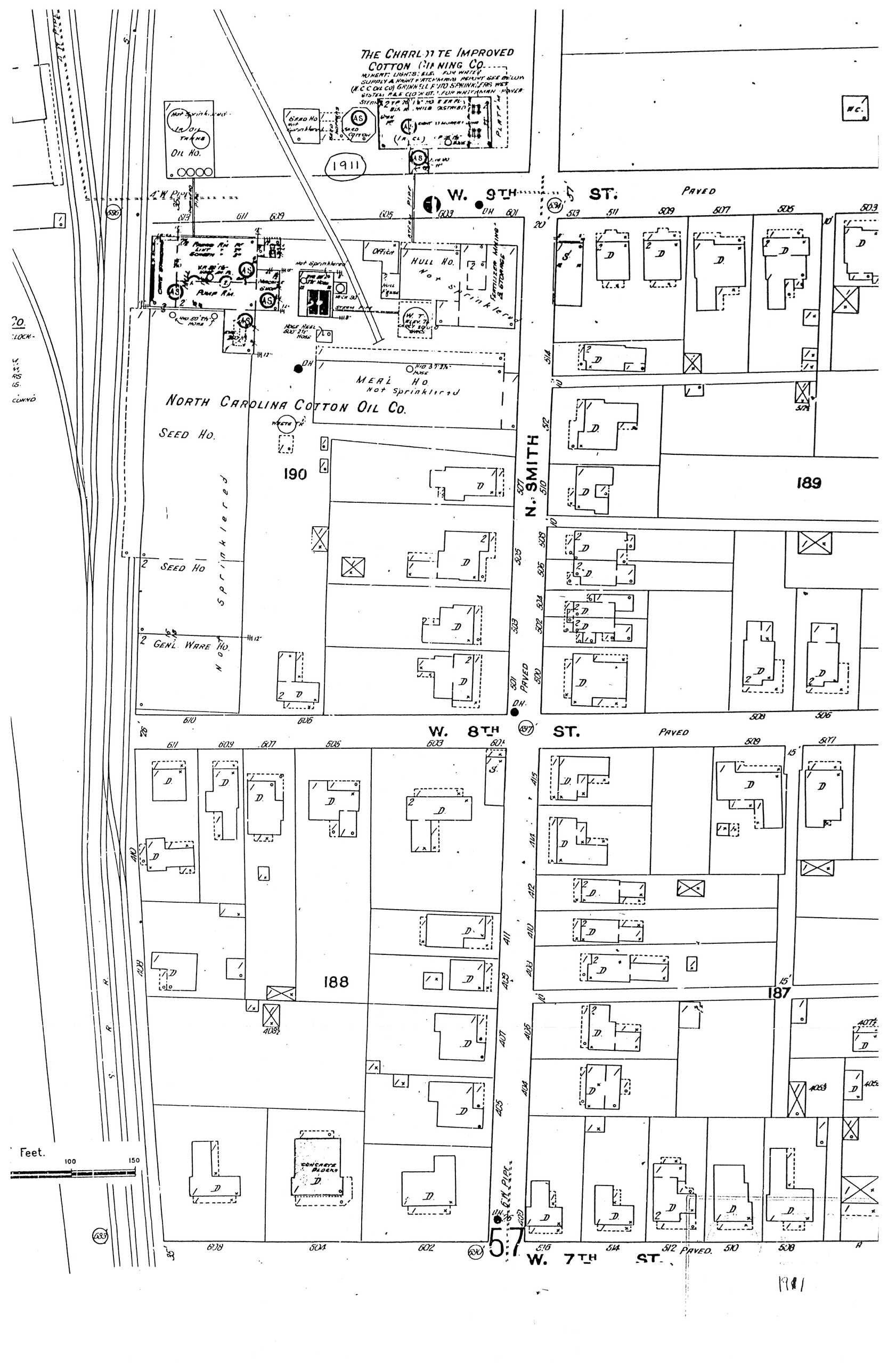
North


NO EXPOSURE.
THE OLIVER OIL CO.
NIGHT & SUNDAY WATCHMAN. CLOCK. 5 STATIONS.
FUEL: COTTON SEED HULLS. LIGHTS: ELEC. 500'
2½" HOSE. HAND GRENADES DISTRIBUTED THROUGHOUT
BUILDINGS. WATER BBLS & BUCKETS ON ALL FLOORS
OF OIL MILL. WALWORTH AUTO. SPRINKLERS ON
LINTER FL. & STEAM (LIVE) JETS IN GIN RM.
CITY WATER THROUGHOUT. RUN ABOUT 6 MOS IN
YEAR.
1890
A.
OIL HO.
R. & D. R.R.
OIL & STEAM PIPES.
W. 8TH ST.
6" W.P.
40'
606.
B.
PLATFM.
PRESS RM.
GIN RM.
SCREEN RM.
ENG. RM.
SUPPLIES.
MEAL SHED. & GRINDG. & SACK.
PRESS RM.
OFF.
2½" HOSE.
C
D.
E.
F.
G
W. HO.
2½" HOSE.
P L A N K
Cotton Seed Shed.
N. SMITH ST.
H.
22'
Drg.
52' TO FR. SHANTY
85' TO 2 STO. FR. SHANTIES.
5' TO 2 STO FR. D.
20' TO FR. CH.
Scale of Feet.
50
100
150

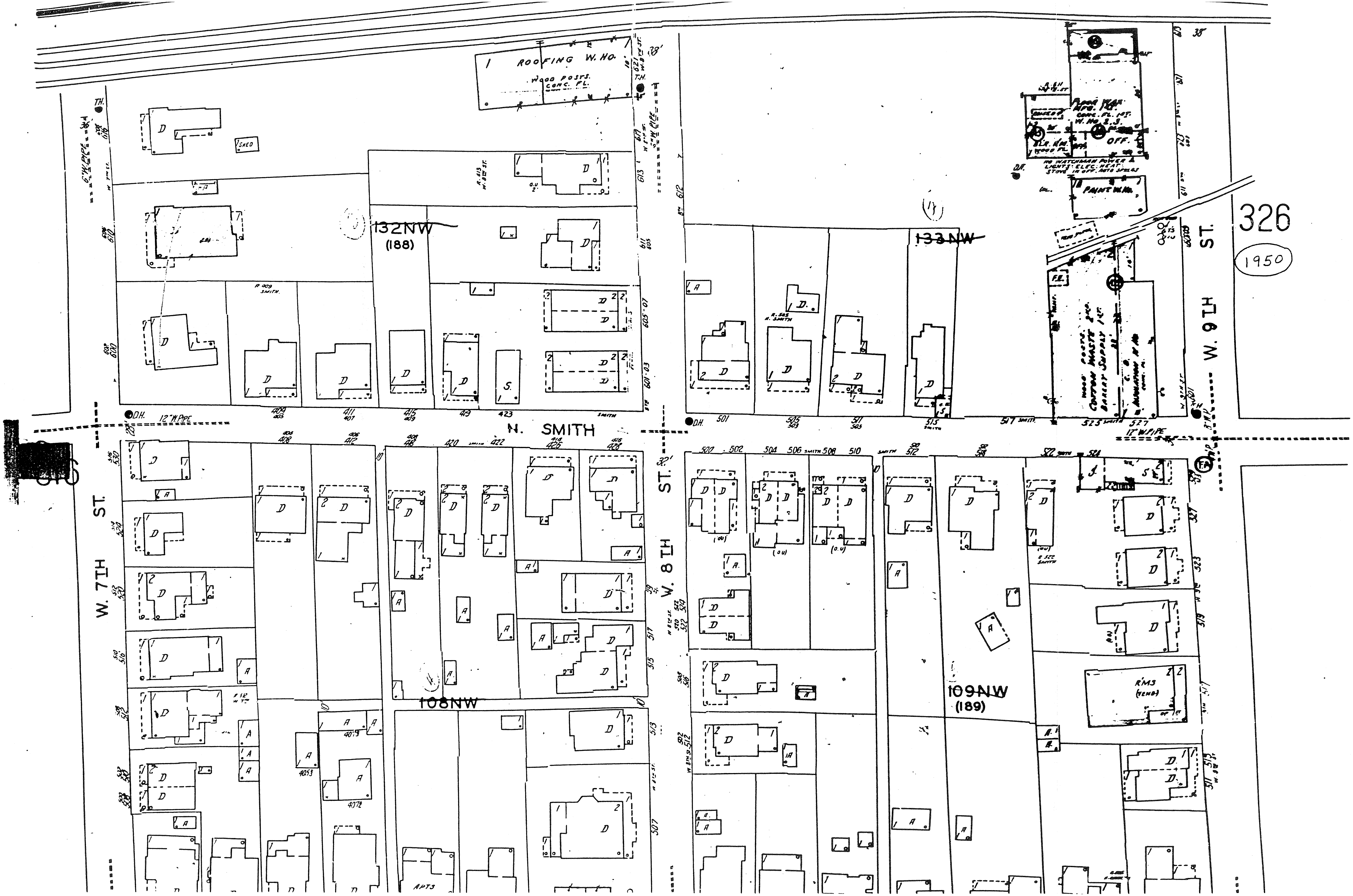
1890 TJK.

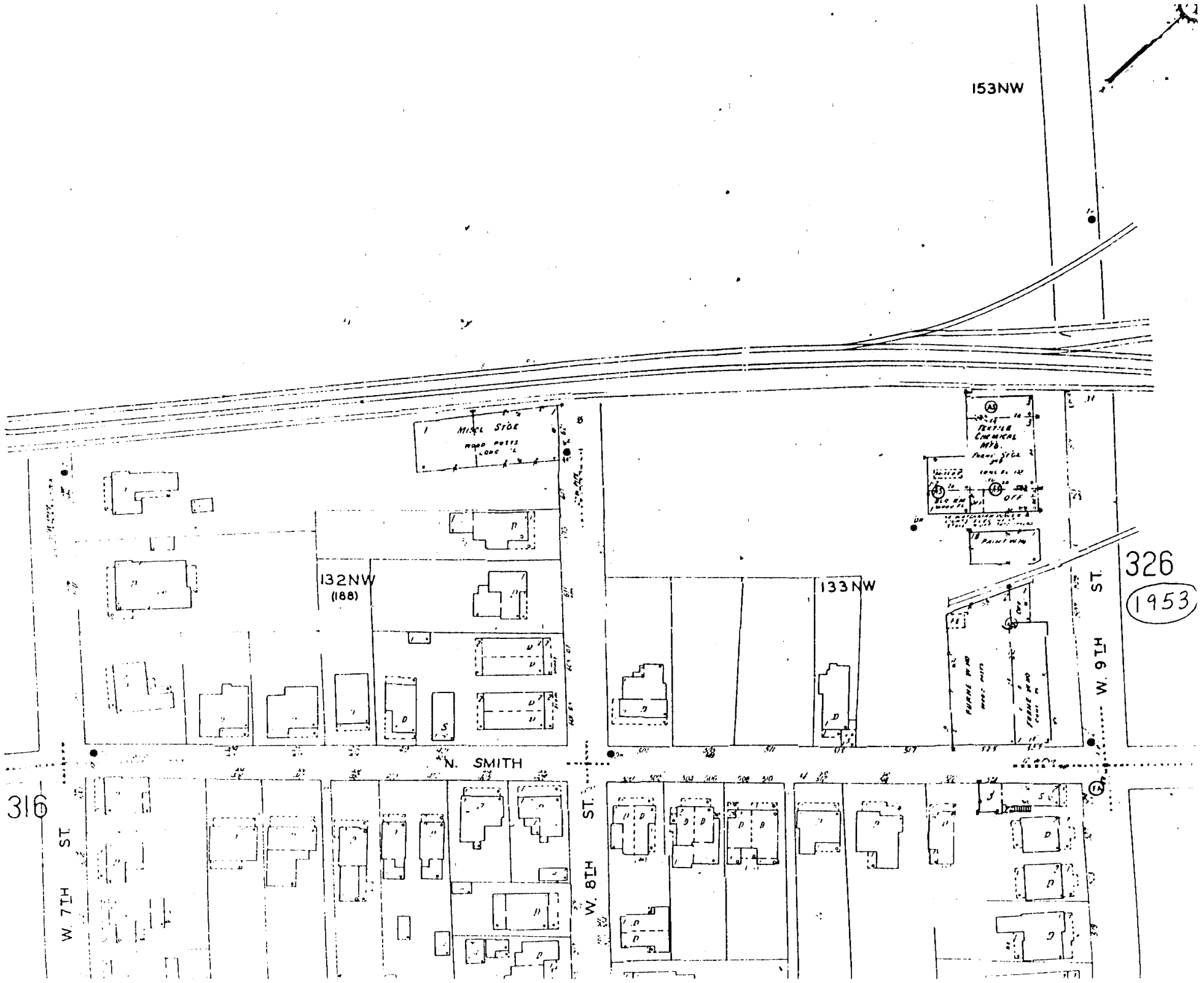

1900
Southern Ry.
Oil Tanks.
Platf'm.
A.
605
D.H.
Off.
H.
Hull Ho.
J.
K.
Hull Conveyor
E.
Projecting Eaves.
Meal Ho.
Hyd. 100' 2" Hose Attd.
G.
D.H.
F.
Hose Cart 670' 2½" Hose
Hyds. With 100' 2" Hose Attd. to Each.
North Carolina Cotton Oil Co.
Charlotte Mill.
Running 6 months of year. Night & Sunday watchman, Eco Clock, 40 stations. 500' 2½" hose on reel, 500' 2" hose on hyds. Hand grenades all thru. Bbls. & pails in oil mill. Grinnell autom. sprinklers (dry) in oil mill. Elevd. w. tank, 92' high, 27000 galls. Water from city main, both to tank & sprinklers. Power: steam. Fuel: coal. Light: elec.
Q.
190
Storage.
U.
Seed Ho.
Hull Ho. (Baled)
Vac. D.
610
32'
35'
28'
25'
508
506 B.
505
506 A.
503
502
501
500
Vac. Going to Ruin
Vacant
Elmwood Cemetery.
Scale of Feet.
50 40 30 20 10 0 50 100 150
3


GIN HO.
WATCHMAN & FIRE PROTECTION FROM OIL MILL. GRINNELL AUTO. SPRINKLERS (DRY SYSTEM) SUPPLIED FROM MILL. POWER: STEAM FROM OIL MILL LIGHTS: ELEC. NO HEAT. 3 DIGGS CHEM. FIRE EXTGRS.
Seed Ho.
SEED CONVEYOR
Cotton W. Ho.
Storage
Ginning
4 PRATT'S GINS
PLATFORM
NO SPRINKLERS IN SEED & COTTON W. HO.
1905
SOUTHERN RY.
Oil Tanks
PLATFORM
4" W. PIPE
W. 9
613
611
609
607
605
603
601
507
F.A. BOX
O.H.
Off.
Hull Ho.
Fertilizer Mixing
Press Rm
Linters
Screen Rm
Mach. Shop
Saw Filing & Storage
Press Rm
HULL CONVEYOR
HYDS WITH 100' 2" HOSE ATT'D TO EA.
4" W. PIPE
PROJECTING EAVES
Meal Ho.
O.H.
HOSE CART 500' 2½" HOSE
NORTH CAROLINA COTTON OIL CO.
CHARLOTTE MILL.
RUNNING 6 MONTHS OF YEAR NIGHT & SUNDAY WATCHMAN. ECO CLOCK 40 STATIONS 500' 2½" HOSE ON REEL. 500' 2" HOSE ON HYDS. BBLS & PAILS IN OIL MILL. GRINNELL AUTO SPRKS DRY IN OIL MILL. ELEV. W. TANK 82' HIGH CAPY 31000 GALS CITY WATER BOTH TO TANK & SPRINKLERS POWER: STEAM FUEL: COAL. LIGHTS: ELEC.
190
6" W. PIPE
Seed Ho.
Hull Ho. (BALED)
610
O.H.
W. 8TH
Scale of Feet.
6


THE CHARLOTTE IMPROVED COTTON GINNING CO.
1911
W. 9TH ST.
PAVED
N. SMITH
NORTH CAROLINA COTTON OIL CO.
SEED HO.
MEAL HO
Not Sprinklered
HULL HO.
Not Sprinklered
OFFICE
OIL HO.
PUMP RM.
190
189
188
187
W. 8TH ST.
W. 7TH ST.
Feet.
100
150

ENGINE & MACHINERY REPAIR
BUILDING MATERIAL
132NW (188)
133NW (190)
BLACK TRANSFER CO.
LIME & SODA ST'GE
VACANT
CAROLINA REFRIGERATING CO. Mfrs ICE COILS
Mfg ICE COILS
Mfg SIZING & FINISHING MATERIALS FOR COTTON INDUSTRY
LUMBER SHED
ASSEMBLYING TRUCK BODIES
AUTOS
MISCL STGE
FISH & OYSTER STGE & PACKING
SHED
SMITH
W. 9TH ST.
W. 8TH ST.
W. 7TH ST.
108NW (187)
109NW (189)
12" W. Pipe
6" W. Pipe
D.H.
TH


326
1950
N. SMITH
W. 7TH ST.
W. 8TH ST.
W. 9TH ST.
132NW
(188)
133NW
108NW
109NW
(189)
ROOFING W. HO.
WOOD POSTS. CONC. FL.
OFF.
PAINT W. HO.
12" W. PIPE
APTS


153NW
132NW
(188)
133NW
326
1953
N. SMITH
316
W 7TH ST
W. 8TH ST
W. 9TH ST

132NW
(188)

133NW

109NW
(189)

N. SMITH

N. GRAHAM

W. 7TH ST.

W. 8TH ST.

W. 9TH ST.

316

326

301

1963

FPX-1962
(C & BR F)
A-1-B

(C. & BR. F.)
PILAST'D WALLS - STEEL TRUSSES
CONC. FL.
BUS MAINT. SHOP
QUEEN CITY TRAILWAYS

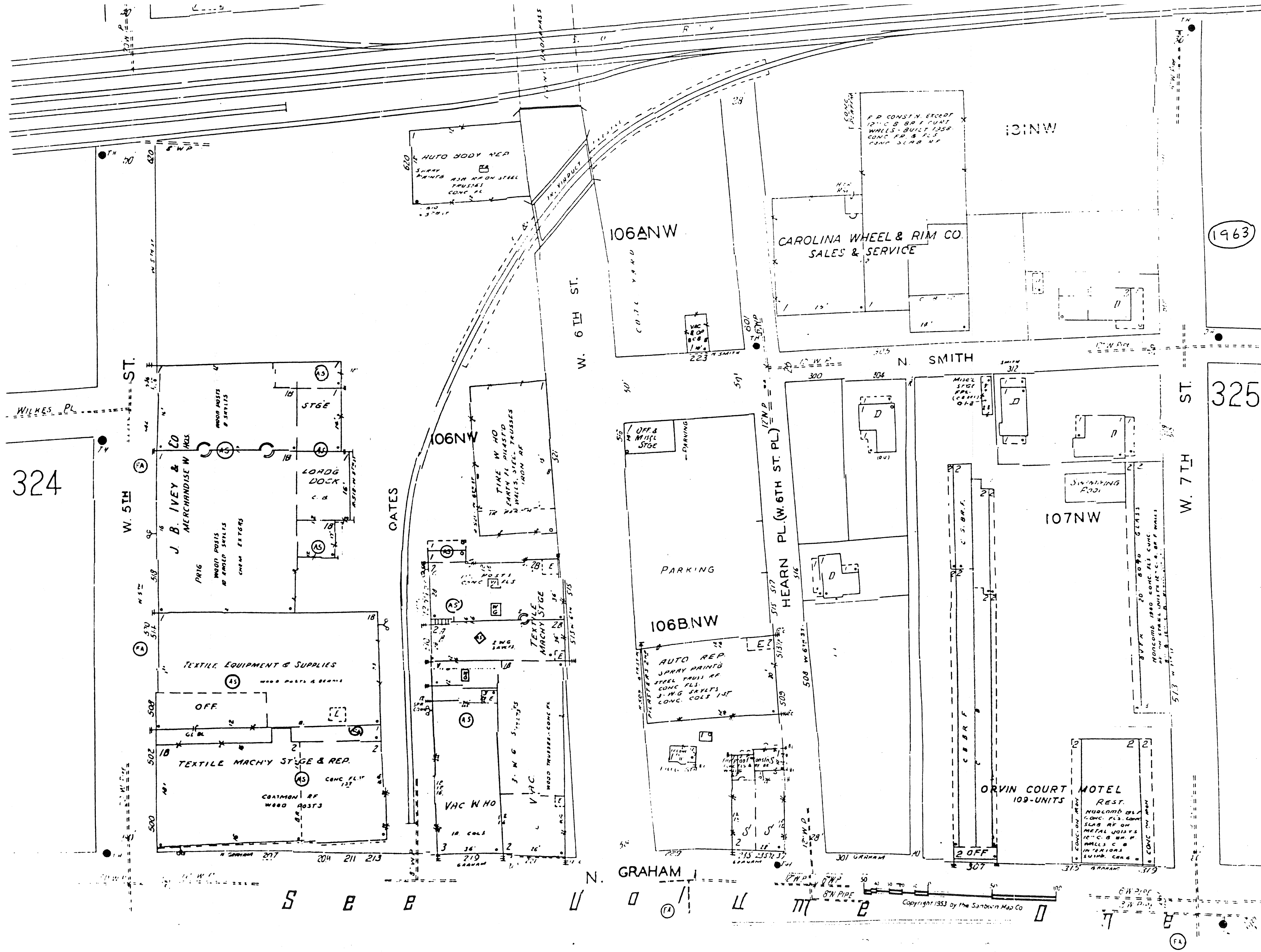
DILLARD & OPEN

PARKG

ROOMS

APTS

ROOMS



1963
324
325
W. 5TH ST.
W. 6TH ST.
W. 7TH ST.
N. SMITH
N. GRAHAM
WILKES PL.
OATES
HEARN PL. (W. 6TH ST. PL.)
106NW
106ANW
106B.NW
107NW
131NW
AUTO BODY REP.
J. B. IVEY & CO MERCHANDISE W. HOS.
STGE
LOADG DOCK
TEXTILE EQUIPMENT & SUPPLIES
OFF.
TEXTILE MACH'Y ST'GE & REP.
TIRE W. HO
TEXTILE MACH'Y ST'GE
VAC W. HO
OFF & MISC'L STGE
PARKING
AUTO REP. SPRAY PAINTG
CAROLINA WHEEL & RIM CO. SALES & SERVICE
SWIMMING POOL
ORVIN COURT MOTEL 109-UNITS
REST.
2 OFF
See Volume
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N. C. D. O. T. GEOTECHNICAL UNIT
BORING LOG

SHEET 1 OF 1

PROJECT NO. 1040-98-110	ID. 9. 908024P	COUNTY MECKLENBURG	GEOLOGIST KEVIN SURRATT
SITE DESCRIPTION LOTS 8-12 (MALLORY R. McKEITHEN PROPERTY)			GROUND WATER
BORING NO. GP-1	BORING LOCATION	OFFSET / ALIGNMENT	24 HR.
COLLAR ELEV.	NORTHING	EASTING	14 DAYS
TOTAL DEPTH 6.1 m	DRILL MACHINE GEOPROBE	DRILL METHOD DIRECT PUSH	
DATE STARTED 9/15/98	COMPLETED 9/15/98	SURFACE WATER DEPTH	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	WELL SCHEMATIC	WATER LEVEL	OVA	LOG	SOIL DESCRIPTION
223	0								222.4 m RELATIVE SURFACE ELEVATION 0
							90		222.25m GRAVEL 0.1524 m
222	1								221.79m BROWN-GREY SLIGHTLY SANDY CLAYEY SILT 0.6096 m
							110		221.89m RED SLIGHTLY SILTY COARSE SAND AS RED BRICK 0.9144 m
221	2								221.18m MOIST GREY SLIGHTLY SANDY SLIGHTLY SILTY CLAY 1.2192 m
							52		220.57m BROWN-GREEN SLIGHTLY SILTY CLAY 1.8288 m
220	3						18		218.96m ORANGE-GREEN BROWN SLIGHTLY SILTY CLAY 2.4384 m
							36		219.35m ORANGE-GREEN BROWN SLIGHTLY SILTY CLAY 3.0480 m
219	4						16		218.74m ORANGE-GREY GREEN SLIGHTLY SANDY CLAYEY SILT 3.6576 m
							7		218.13m ORANGE-GREY GREEN SLIGHTLY SANDY CLAYEY SILT 4.2672 m
218	5						5		217.52m ORANGE-GREY GREEN SLIGHTLY SANDY CLAYEY SILT WITH MANGANESE OXIDE STAINING 4.8768 m
							3		216.91m ORANGE-GREY GREEN SLIGHTLY SANDY CLAYEY SILT WITH MANGANESE OXIDE STAINING 5.4864 m
217	6	BORING TERMINATED AT ELEVATION 216.30 m					2		216.30m MOIST ORANGE-GREY BROWN SLIGHTLY SANDY, SLIGHTLY CLAYEY SILT WITH MICACEOUS GRANULES 6.0960 m
216									
215									
214									
213									

NOTES:

SAMPLE TUBES JAMMED ABLE TO OBTAIN SMALL AMOUNT FOR SOIL CLASSIFICATION WITHIN SCREEN

DROVE WATER SAMPLER TO 9.144m
USED PERISTALTIC PUMP TO OBTAIN SAMPLE
WATER LEVEL AT 7.01 m

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BORING LOG

SHEET 1 OF 1

PROJECT NO. 1040-98-110	ID. 9. 908024P	COUNTY MECKLENBURG	GEOLOGIST KEVIN SURRATT
SITE DESCRIPTION LOTS 8-12 (MALLORY R. McKEITHEN PROPERTY)			GROUND WATER
BORING NO. GP-2	BORING LOCATION	OFFSET	ALIGNMENT / 24 HR.
COLLAR ELEV.	NORTHING	EASTING	14 DAYS
TOTAL DEPTH 5.18m	DRILL MACHINE GEOPROBE	DRILL METHOD DIRECT PUSH	
DATE STARTED 9/16/98	COMPLETED 9/16/98	SURFACE WATER DEPTH	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	WELL SCHEMATIC	WATER LEVEL	OVA	LOG	SOIL DESCRIPTION
	0								223.7 m RELATIVE SURFACE ELEVATION — 0
									223.55m GRAVEL/ROCK — 0.1524 m
							0		223.09m RED-BROWN SLIGHTLY SANDY CLAY — 0.6096 m
223	1						0		222.48m RED-BROWN SLIGHTLY SANDY CLAY — 1.2192 m
222	2						10		221.87m RED-BROWN SLIGHTLY SANDY CLAY — 1.8288 m
									YELLOW-ORANGE SLIGHTLY SANDY CLAYEY SILT
221	3						0		221.26m WITH MANGANESE OXIDE STAINING — 2.4384 m
									YELLOW-ORANGE SLIGHTLY SANDY CLAYEY SILT
							0		220.65m WITH MANGANESE OXIDE STAINING — 3.0480 m
									YELLOW-ORANGE SLIGHTLY SANDY CLAYEY SILT
220	4						1		220.04m WITH MANGANESE OXIDE STAINING — 3.6576 m
							1		219.43m ORANGE-YELLOW SILTY CLAY — 4.2672 m
219	5	BORING TERMINATED AT ELEVATION 217.01 m					0		218.52m ORANGE-YELLOW SILTY CLAY (MOIST) — 5.1816 m
218	6								
217									
216									
215									
214									
213									

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BORING LOG

SHEET 1 OF 1

PROJECT NO. 1040-98-110	ID. 9. 908024P	COUNTY MECKLENBURG	GEOLOGIST KEVIN SURRATT
SITE DESCRIPTION LOTS 8-12 (MALLORY R. McKEITHEN PROPERTY)			GROUND WATER
BORING NO. GP-3	BORING LOCATION	OFFSET / ALIGNMENT	24 HR.
COLLAR ELEV.	NORTHING	EASTING	14 DAYS
TOTAL DEPTH 5.79m	DRILL MACHINE GEOPROBE	DRILL METHOD DIRECT PUSH	
DATE STARTED 9/15/98	COMPLETED 9/15/98	SURFACE WATER DEPTH	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	WELL SCHEMATIC	WATER LEVEL	OVA	LOG	SOIL DESCRIPTION
223	0								222.8 m RELATIVE SURFACE ELEVATION 0
							300		222.25m GRAVEL/ROCK 0.1524 m
222	1						>1000		221.79m BROWN SILTY SAND WITH ROCKS 0.6096 m
									221.69m RED SLIGHTLY SILTY COARSE SAND AS RED BRICK 0.9144 m
									221.18m GREY-BLACK SLIGHTLY SANDY CLAY (STORNG ODOR) 1.2192 m
221	2						-		220.57m NO RECOVERY 1.8288 m
							>1000		219.96m GREY SLIGHTLY SANDY SILTY CLAY (STRONG ODOR) 2.4384 m
220	3						7		219.35m ORANGE GREY SLIGHTLY SANDY SILTY CLAY (STRONG ODOR) 3.0480 m
							12		218.74m BROWN ORANGE GREY SILTY CLAY 3.6576 m
219	4						8		218.13m BROWN ORANGE GREY SILTY CLAY 4.2672 m
218	5						7		217.52m GREEN-GREY SILTY CLAY 4.8768 m
		BORING TERMINATED AT ELEVATION 217.01 m					2		BROWN-ORANGE LIGHT GREEN CLAYEY SILT WITH MICACEOUS GRANULES
217	6								217.01m 5.7912 m
216									
215									
214									
213									

NOTES:
REFUSAL AT 0.6096m (BRICK)
OFFSET 0.6096m
REFUSAL AT 0.6096m (BRICK)
OFFSET 0.6096m

DROVE WATER SAMPLER TO 8.53m
USED PERISTALTIC PUMP TO OBTAIN SAMPLE
WATER LEVEL AT 7.01 m

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BORING LOG

SHEET 1 OF 1

PROJECT NO. 1040-98-110	ID. 9. 908024P	COUNTY MECKLENBURG	GEOLOGIST KEVIN SURRATT
SITE DESCRIPTION LOTS 8-12 (MALLORY R. McKEITHEN PROPERTY)			GROUND WATER
BORING NO. GP-4	BORING LOCATION	OFFSET / ALIGNMENT	24 HR.
COLLAR ELEV.	NORTHING	EASTING	14 DAYS
TOTAL DEPTH 5. 49m	DRILL MACHINE GEOPROBE	DRILL METHOD DIRECT PUSH	
DATE STARTED 9/16/98	COMPLETED 9/16/98	SURFACE WATER DEPTH	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	WELL SCHEMATIC	WATER LEVEL	OVA	LOG	SOIL DESCRIPTION
223	0								223.0 m RELATIVE SURFACE ELEVATION 0
							3		222.85m TOPSOIL GRASS 0.1524 m
									222.39m DARK BROWN SLIGHTLY GREY SANDY SILT WITH ROCKS 0.8096 m
222	1						5		221.78m DARK (BLACK) BROWN SLIGHTLY GREY SANDY SILT WITH ROCKS 1.2192 m
							0		221.17m ORANGE SLIGHTLY SILTY CLAY 1.8288 m
221	2						0		220.56m GREY ORANGE SLIGHTLY SILTY CLAY 2.4384 m
							0		219.95m GREY ORANGE SLIGHTLY SILTY CLAY 3.0480 m
220	3						1		219.34m GREY ORANGE SLIGHTLY SILTY CLAY 3.6576 m
							0		218.73m GREY ORANGE SLIGHTLY SILTY CLAY 4.2672 m
219	4						0		218.12m ORANGE WHITE GREY CLAYEY SILT 4.8768 m
							0		217.51m ORANGE WHITE GREY CLAYEY SILT 5.4864 m
218	5	BORING TERMINATED AT ELEVATION 217.51 m							
217	6								
216									
215									
214									
213									

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BORING LOG

SHEET 1 OF 1

PROJECT NO. 1040-98-110	ID. 9. 908024P	COUNTY MECKLENBURG	GEOLOGIST KEVIN SURRATT
SITE DESCRIPTION LOTS 8-12 (MALLORY R. McKEITHEN PROPERTY)			GROUND WATER
BORING NO. GP-5	BORING LOCATION	OFFSET / ALIGNMENT	24 HR.
COLLAR ELEV.	NORTHING	EASTING	14 DAYS
TOTAL DEPTH 5. 49m	DRILL MACHINE GEOPROBE	DRILL METHOD DIRECT PUSH	
DATE STARTED 9/16/98	COMPLETED 9/16/98	SURFACE WATER DEPTH	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	WELL SCHEMATIC	WATER LEVEL	OVA	LOG	SOIL DESCRIPTION
223	0								222.6 m RELATIVE SURFACE ELEVATION 0
							0		222.45m TOPSOIL GRASS 0.1524 m
222	1								221.99m BROWN GREY CLAYEY SILT WITH ROCKS 0.6096 m
							0.2		221.38m RED SILTY SAND AS RED BRICK 1.2192 m
221	2						0.8		220.77m RED SILTY SAND AS RED BRICK 1.8288 m
							7		220.16m MOIST GREY SILTY CLAY 2.4384 m
220	3						10		219.55m MOIST GREY SILTY CLAY 3.0480 m
219		BORING TERMINATED AT ELEVATION 217.111 m					110		217.11m MOIST GREY SILTY CLAY 5.4864 m
	4								
218	5								
217	6								
216									
215									
214									
213									

NOTE:
AT 8' - 12' WATER COMPLETELY SATURATED
SAMPLE TUBE AROUND SOIL

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BORING LOG

PROJECT NO. 1040-98-110	ID. 9. 908024P	COUNTY MECKLENBURG	GEOLOGIST KEVIN SURRATT
SITE DESCRIPTION LOTS 8-12 (MALLORY R. McKEITHEN PROPERTY)			GROUND WATER
BORING NO. GP-6	BORING LOCATION	OFFSET	ALIGNMENT / 24 HR.
COLLAR ELEV.	NORTHING	EASTING	14 DAYS
TOTAL DEPTH 5. 49m	DRILL MACHINE GEOPROBE	DRILL METHOD DIRECT PUSH	
DATE STARTED 9/16/98	COMPLETED 9/16/98	SURFACE WATER DEPTH	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	WELL SCHEMATIC	WATER LEVEL	OVA	LOG	SOIL DESCRIPTION	
									222.6 m RELATIVE SURFACE ELEVATION	0
223	0								222.45m DARK BROWN TOPSOIL	0.1524 m
222	1						-		221.99m NO RECOVERY	0.8096 m
							-		221.38m NO RECOVERY	1.2192 m
221	2						38		220.77m DARK BROWN SLIGHTLY CLAYEY SANDY SILT	1.8288 m
							120		220.16m ORANGE GREY SLIGHTLY SILTY CLAY	2.4384 m
220	3						26		219.55m ORANGE GREY SLIGHTLY SILTY CLAY	3.0480 m
219	4						30		218.94m ORANGE GREY SLIGHTLY SILTY CLAY	3.6576 m
							12		218.33m ORANGE GREY SLIGHTLY SILTY CLAY	4.2672 m
218	5						18		217.72m MOIST ORANGE-GREY SANDY CLAYEY SILT	4.8768 m
		BORING TERMINATED AT ELEVATION 217.11 m					30		217.11m ORANGE-GREY SANDY CLAYEY SILT (WET)	5.4864 m
217	6									
216										
215										
214										
213										

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BORING LOG

SHEET 1 OF 1

PROJECT NO. 1040-98-110	ID. 9. 908024P	COUNTY MECKLENBURG	GEOLOGIST KEVIN SURRATT
SITE DESCRIPTION LOTS 8-12 (MALLORY R. McKEITHEN PROPERTY)			GROUND WATER
BORING NO. GP-7	BORING LOCATION	OFFSET / ALIGNMENT	24 HR.
COLLAR ELEV.	NORTHING	EASTING	14 DAYS
TOTAL DEPTH 5.18m	DRILL MACHINE GEOPROBE	DRILL METHOD DIRECT PUSH	
DATE STARTED 9/16/98	COMPLETED 9/16/98	SURFACE WATER DEPTH	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	WELL SCHEMATIC	WATER LEVEL	OVA	LOG	SOIL DESCRIPTION
223	0								222.6 m RELATIVE SURFACE ELEVATION 0
									222.45m ASPHALT 0.1524 m
222	1								221.99m GREEN CLAYEY SILT 0.6096 m
							4		221.38m BLACK SANDY SILT WITH RED BRICK 1.2192 m
221	2						0		220.77m BROWN CLAYEY SILT 1.8288 m
							0		220.16m ORANGE GREY CLAYEY SILT 2.4384 m
220	3						-		219.55m NO RECOVERY 3.0480 m
							-		218.94m NO RECOVERY 3.6576 m
219	4						26		218.33m ORANGE GREY SILTY CLAY WITH MANGANESE OXIDE STAIN 4.2672 m
218	5	BORING TERMINATED AT ELEVATION 217.42 m					3		217.42m MOIST ORANGE-GREY WHITE SILTY CLAY 5.1816 m
217	6								
216									
215									
214									
213									

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BORING LOG

SHEET 1 OF 1

PROJECT NO. 1040-98-110	ID. 9. 908024P	COUNTY MECKLENBURG	GEOLOGIST KEVIN SURRATT
SITE DESCRIPTION LOTS 8-12 (MALLORY R. McKEITHEN PROPERTY)			GROUND WATER
BORING NO. GP-8	BORING LOCATION	OFFSET / ALIGNMENT	24 HR.
COLLAR ELEV.	NORTHING	EASTING	14 DAYS
TOTAL DEPTH 3. 96m	DRILL MACHINE GEOPROBE	DRILL METHOD DIRECT PUSH	
DATE STARTED 9/15/98	COMPLETED 9/15/98	SURFACE WATER DEPTH	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	WELL SCHEMATIC	WATER LEVEL	OVA	LOG	SOIL DESCRIPTION
	0								223.1 m RELATIVE SURFACE ELEVATION 0
223							0.8		222.95m TOPSOIL 0.1524 m
	1								222.49m BROWN SLIGHTLY CLAYEY SANDY SILT WITH ROCKS 0.6096 m
222							1		221.88m ORANGE SANDY SILT 1.2192 m
	2						0.4		221.27m GREY ORANGE SLIGHTLY SANDY SILT 1.8288 m
221							0.4		GREY ORANGE SLIGHTLY SANDY CLAYEY SILT WITH MANGANESE STAINING 2.4384 m
	3						0.2		GREY ORANGE SLIGHTLY SANDY CLAYEY SILT WITH MANGANESE STAINING 3.0480 m
220		BORING TERMINATED AT ELEVATION 219.14 m					0.2		GREY ORANGE SLIGHTLY SANDY CLAYEY SILT WITH MANGANESE STAINING 3.9624 m
	4								
219									
	5								
218									
	6								
217									
216									
215									
214									
213									

NOTES:
DROVE SAMPLER 8.53m (28'),
WATER LEVEL AT 7.32 m (24'),
OBTAINED SAMPLE USING PERISTALTIC PUMP

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BORING LOG

SHEET 1 OF 1

PROJECT NO. 1040-98-110	ID. 9. 908024P	COUNTY MECKLENBURG	GEOLOGIST KEVIN SURRATT
SITE DESCRIPTION LOTS 8-12 (MALLORY R. McKEITHEN PROPERTY)			GROUND WATER
BORING NO. GP-9	BORING LOCATION	OFFSET / ALIGNMENT	24 HR.
COLLAR ELEV.	NORTHING	EASTING	14 DAYS
TOTAL DEPTH 3.66m	DRILL MACHINE GEOPROBE	DRILL METHOD DIRECT PUSH	
DATE STARTED 9/17/98	COMPLETED 9/17/98	SURFACE WATER DEPTH	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	WELL SCHEMATIC	WATER LEVEL	OVA	LOG	SOIL DESCRIPTION
223	0								222.4 m RELATIVE SURFACE ELEVATION 0
222	1						0		222.25m TOPSOIL GRASS 0.1524 m
									221.79m RED SLIGHTLY SILTY SAND WITH ROCKS 0.6096 m
221	2						1		221.18m BROWN-GREY SLIGHTLY SANDY CLAY 1.2192 m
							1		ORANGE-GREY BROWN SLIGHTLY SILTY SAND
220	3								220.57m WITH SAPPROLITIC GRANULES 1.8288 m
							3		MOIST GREY SLIGHTLY CLAYEY SILTY SAND
219		BORING TERMINATED AT ELEVATION 218.74 m							218.86m 2.4384 m
							5		MOIST ORANGE-GREY SLIGHTLY CLAYEY SILTY SAND
	4								218.35m 3.0480 m
218							2		MOIST ORANGE-GREY SLIGHTLY CLAYEY SILTY SAND
	5								218.74m 3.6576 m
217	6								
216									
215									
214									
213									

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING TESTING

Raleigh Branch
3118 Spring Forest Road
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Raleigh, N.C. 27658-8069
(919) 872-2660
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N. C. D. O. T. GEOTECHNICAL UNIT
BORING LOG

SHEET 1 OF 1

PROJECT NO. 1040-98-110	ID. 9. 908024P	COUNTY MECKLENBURG	GEOLOGIST KEVIN SURRATT
SITE DESCRIPTION LOTS 8-12 (MALLORY R. McKEITHEN PROPERTY)			GROUND WATER
BORING NO. GP-10	BORING LOCATION	OFFSET / ALIGNMENT	24 HR.
COLLAR ELEV.	NORTHING	EASTING	14 DAYS
TOTAL DEPTH 3.66m	DRILL MACHINE GEOPROBE	DRILL METHOD DIRECT PUSH	
DATE STARTED 9/17/98	COMPLETED 9/17/98	SURFACE WATER DEPTH	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	WELL SCHEMATIC	WATER LEVEL	OVA	LOG	SOIL DESCRIPTION
									222.4 m RELATIVE SURFACE ELEVATION 0
223	0								
							0		222.25m TOPSOIL (GRASS) 0.1524 m
222	1								221.79m RED SLIGHTLY SILTY COARSE SAND AS RED BRICK 0.6096 m
							4		221.18m BROWN SLIGHTLY SILTY COARSE SAND 1.2192 m
221	2						38		220.57m GREY SLIGHTLY SILTY CLAY 1.8288 m
							110		219.96m GREY SLIGHTLY SILTY CLAY 2.4384 m
220	3						120		219.35m GREY SLIGHTLY SILTY CLAY 3.0480 m
		BORING TERMINATED AT ELEVATION 218.74 m					18		218.74m MOIST GREY SILTY CLAY 3.6576 m
219									
	4								
218	5								
217	6								
216									
215									
214									
213									

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(919) 872-2660
Fax (919) 790-9827

N. C. D. O. T. GEOTECHNICAL UNIT
BORING LOG

SHEET 1 OF 1

PROJECT NO. 1040-98-110	ID. 9. 908024P	COUNTY MECKLENBURG	GEOLOGIST KEVIN SURRATT
SITE DESCRIPTION LOTS 8-12 (MALLORY R. McKEITHEN PROPERTY)			GROUND WATER
BORING NO. GP-11	BORING LOCATION	OFFSET / ALIGNMENT	24 HR.
COLLAR ELEV.	NORTHING	EASTING	14 DAYS
TOTAL DEPTH 5.5M	DRILL MACHINE GEOPROBE	DRILL METHOD DIRECT PUSH	
DATE STARTED 9/17/98	COMPLETED 9/17/98	SURFACE WATER DEPTH	

ELEV. (m)	DEPTH (m)	BLOW COUNT 15cm	15cm	15cm	WELL SCHEMATIC	WATER LEVEL	OVA	LOG	SOIL DESCRIPTION	
223	0								223.0 m RELATIVE SURFACE ELEVATION	0
							0		222.85m TOPSOIL GRASS	0.1524 m
									222.38m RED CLAYEY SILT WITH ROCKS	0.8096 m
222	1						0		221.78m RED CLAYEY SILT WITH ROCKS	1.2192 m
							2		221.17m BROWN ORANGE SLIGHTLY SANDY CLAY	1.8288 m
221	2						1		220.56m BROWN ORANGE SLIGHTLY SANDY CLAY	2.4384 m
							0		219.85m ORANGE BROWN SILTY CLAY	3.0480 m
220	3						0		219.34m GREY-ORANGE SILTY CLAY	3.6576 m
							0		218.73m GREY-ORANGE SILTY CLAY	4.2672 m
219	4						0		218.12m GREY-ORANGE SILTY CLAY (MOIST)	4.8768 m
							0		217.51m MOIST ORANGE-GREY WHITE SLIGHTLY SANDY CLAYEY SILTY WITH MICACEOUS GRANULES	5.4864 m
218	5	BORING TERMINATED AT ELEVATION 217.51 m								
217	6									
216										
215										
214										
213										

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

RCVD SEP 21 1998

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146679NR
Description: GP-1 @ 2-4'

Coll. Date: 09/15/98
Coll. Time: 1100

Date Received: 09/17/98
Date Reported: 09/18/98

QA/QC Officer _____

V.P. Analytical _____

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	80.6	%		09/17/98	JPS
VOLATILE ORGANICS*					09/17/98	RED
Acetone	8260B	<1240	ug/kg			
Acetonitrile	8260B	<3100	ug/kg			
Acrolein	8260B	<3100	ug/kg			
Acrylonitrile	8260B	<3100	ug/kg			
Benzene	8260B	<310	ug/kg			
Bromodichloromethane	8260B	<310	ug/kg			
Bromoform	8260B	<310	ug/kg			
Bromomethane (Methyl bromide)	8260B	<620	ug/kg			
2-Butanone (MEK)	8260B	<310	ug/kg			
Carbon disulfide	8260B	<310	ug/kg			
Carbon tetrachloride	8260B	<310	ug/kg			
Chlorobenzene	8260B	<310	ug/kg			
Chloroethane	8260B	<620	ug/kg			
2-Chloroethylvinylether	8260B	<310	ug/kg			
Chloroform	8260B	<310	ug/kg			
Chloromethane (Methyl chloride)	8260B	708	ug/kg			
Dibromochloromethane	8260B	<310	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<310	ug/kg			
Dibromomethane	8260B	<310	ug/kg			
1,2-Dichlorobenzene	8260B	<310	ug/kg			
1,3-Dichlorobenzene	8260B	<310	ug/kg			
1,4-Dichlorobenzene	8260B	<310	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<620	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<620	ug/kg			
Dichlorodifluoromethane	8260B	<620	ug/kg			
1,1-Dichloroethane	8260B	<310	ug/kg			
1,2-Dichloroethane	8260B	<310	ug/kg			
1,1-Dichloroethene	8260B	<310	ug/kg			
cis-1,2-Dichloroethene	8260B	<310	ug/kg			
trans-1,2-Dichloroethene	8260B	<310	ug/kg			
1,2-Dichloropropane	8260B	<310	ug/kg			
cis-1,3-Dichloropropene	8260B	<310	ug/kg			
trans-1,3-Dichloropropene	8260B	<310	ug/kg			
Diisopropyl ether (IPE)	8260B	<310	ug/kg			
Ethyl benzene	8260B	<310	ug/kg			
Ethyl methacrylate	8260B	<310	ug/kg			
2-Hexanone	8260B	<310	ug/kg			
Methylene chloride	8260B	<310	ug/kg			
Methyl iodide	8260B	<310	ug/kg			
4-Methyl-2-pentanone	8260B	<310	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<310	ug/kg			
Naphthalene	8260B	866	ug/kg			
Styrene	8260B	<310	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
1,1,2,2-Tetrachloroethane	8260B	<310	ug/kg			
Tetrachloroethene	8260B	<310	ug/kg			
Toluene	8260B	<310	ug/kg			
1,1,1-Trichloroethane	8260B	<310	ug/kg			
1,1,2-Trichloroethane	8260B	<310	ug/kg			
Trichloroethene	8260B	<310	ug/kg			
Trichlorofluoromethane	8260B	<620	ug/kg			
1,2,3-Trichloropropane	8260B	<310	ug/kg			
Vinyl acetate	8260B	<310	ug/kg			
Vinyl chloride	8260B	<620	ug/kg			
Total Xylenes	8260B	<931	ug/kg			
BASE NEUTRAL/ACID EXTRACTABLES*				09/17/98	09/17/98	JAF
Acenaphthene	8270C	2820	ug/kg			
Acenaphthylene	8270C	795	ug/kg			
Acetophenone	8270C	<413	ug/kg			
4-Aminobiphenyl	8270C	917	ug/kg			
Aniline	8270C	<413	ug/kg			
Anthracene	8270C	685	ug/kg			
Benzidine	8270C	<413	ug/kg			
Benzoic acid	8270C	577	ug/kg			
Benzo(a)anthracene	8270C	1430	ug/kg			
Benzo(b+k)fluoranthene	8270C	2870	ug/kg			
Benzo(g,h,i)perylene	8270C	1800	ug/kg			
Benzo(a)pyrene	8270C	1550	ug/kg			
Benzyl alcohol	8270C	<828	ug/kg			
bis(2-Chloroethoxy)methane	8270C	546	ug/kg			
bis(2-Chloroethyl)ether	8270C	<413	ug/kg			
bis(2-Chloroisopropyl)ether	8270C	<413	ug/kg			
bis(2-Ethylhexyl)phthalate	8270C	<413	ug/kg			
4-Bromophenylphenylether	8270C	<413	ug/kg			
Butylbenzylphthalate	8270C	<413	ug/kg			
Chloroaniline	8270C	<413	ug/kg			
4-Chloro-3-methylphenol	8270C	<413	ug/kg			
1-Chloronaphthalene	8270C	567	ug/kg			
2-Chloronaphthalene	8270C	496	ug/kg			
2-Chlorophenol	8270C	<413	ug/kg			
4-Chlorophenylphenylether	8270C	932	ug/kg			
Chrysene	8270C	1930	ug/kg			
m+p-Cresol	8270C	<828	ug/kg			
o-Cresol	8270C	<413	ug/kg			
Dibenzo(a,j)acridine	8270C	<413	ug/kg			
Dibenzo(a,h)anthracene	8270C	517	ug/kg			
Dibenzofuran	8270C	1010	ug/kg			
Di-N-Butylphthalate	8270C	<413	ug/kg			
1,2-Dichlorobenzene	8270C	<413	ug/kg			
1,3-Dichlorobenzene	8270C	<413	ug/kg			
1,4-Dichlorobenzene	8270C	<413	ug/kg			
3,3'-Dichlorobenzidine	8270C	<413	ug/kg			
2,4-Dichlorophenol	8270C	<413	ug/kg			
2,6-Dichlorophenol	8270C	<413	ug/kg			
Diethylphthalate	8270C	<413	ug/kg			
p-Dimethylaminoazobenzene	8270C	<413	ug/kg			
7,12-Dimethylbenzo(a)anthracene	8270C	<413	ug/kg			
a,a-Dimethylphenethylamine	8270C	<413	ug/kg			
2,4-Dimethylphenol	8270C	<413	ug/kg			
Dimethylphthalate	8270C	<413	ug/kg			
4,6-Dinitro-2-methylphenol	8270C	550	ug/kg			
2,4-Dinitrophenol	8270C	570	ug/kg			
2,4-Dinitrotoluene	8270C	839	ug/kg			
2,6-Dinitrotoluene	8270C	1120	ug/kg			
Di-N-Octylphthalate	8270C	<413	ug/kg			
Diphenylamine	8270C	1510	ug/kg			
Ethyl methanesulfonate	8270C	<413	ug/kg			
Fluoranthene	8270C	3770	ug/kg			
Fluorene	8270C	2190	ug/kg			
Hexachlorobenzene	8270C	<413	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<413	ug/kg			
Hexachlorocyclopentadiene	8270C	<413	ug/kg			
Hexachloroethane	8270C	<413	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	1440	ug/kg			
Isophorone	8270C	1600	ug/kg			
3-Methylcholanthrene	8270C	<413	ug/kg			
Methyl methanesulfonate	8270C	<413	ug/kg			
2-Methylnaphthalene	8270C	3270	ug/kg			
Naphthalene	8270C	773	ug/kg			
1-Naphthylamine	8270C	772	ug/kg			
2-Naphthylamine	8270C	790	ug/kg			
2-Nitroaniline	8270C	982	ug/kg			
3-Nitroaniline	8270C	753	ug/kg			
4-Nitroaniline	8270C	877	ug/kg			
Nitrobenzene	8270C	<413	ug/kg			
2-Nitrophenol	8270C	488	ug/kg			
4-Nitrophenol	8270C	663	ug/kg			
N-Nitroso-di-butylamine	8270C	3450	ug/kg			
N-Nitrosodimethylamine	8270C	<413	ug/kg			
N-Nitrosodiphenylamine	8270C	917	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<413	ug/kg			
N-Nitrosopiperidine	8270C	533	ug/kg			
Pentachlorobenzene	8270C	<413	ug/kg			
Pentachloronitrobenzene	8270C	<413	ug/kg			
Pentachlorophenol	8270C	<413	ug/kg			
Phenacetin	8270C	1430	ug/kg			
Phenanthrene	8270C	4350	ug/kg			
Phenol	8270C	<413	ug/kg			
2-Picoline	8270C	<413	ug/kg			
Pronamide	8270C	<413	ug/kg			
Pyrene	8270C	3090	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<413	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<413	ug/kg			
1,2,4-Trichlorobenzene	8270C	<413	ug/kg			
2,4,5-Trichlorophenol	8270C	980	ug/kg			
2,4,6-Trichlorophenol	8270C	<413	ug/kg			

SHEALY ENVIRONMENTAL SERVICES, INC.

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146680NR
Description: GP-1

Coll. Date: 09/15/98
Coll. Time: 1145

Date Received: 09/17/98
Date Reported: 09/18/98

QA/QC Officer

V.P. Analytical

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
VOLATILE ORGANICS					09/17/98	SAG
Acetone	8260B	<20.0	ug/l			
Acetonitrile	8260B	<50.0	ug/l			
Acrolein	8260B	<50.0	ug/l			
Acrylonitrile	8260B	<50.0	ug/l			
Benzene	8260B	<5.0	ug/l			
Bromodichloromethane	8260B	<5.0	ug/l			
Bromoform	8260B	<5.0	ug/l			
Bromomethane (Methyl bromide)	8260B	<10.0	ug/l			
2-Butanone (MEK)	8260B	<5.0	ug/l			
Carbon disulfide	8260B	<5.0	ug/l			
Carbon tetrachloride	8260B	<5.0	ug/l			
Chlorobenzene	8260B	<5.0	ug/l			
Chloroethane	8260B	<10.0	ug/l			
2-Chloroethylvinylether	8260B	<5.0	ug/l			
Chloroform	8260B	<5.0	ug/l			
Chloromethane (Methyl chloride)	8260B	<10.0	ug/l			
Dibromochloromethane	8260B	<5.0	ug/l			
1,2-Dibromoethane (EDB)	8260B	<5.0	ug/l			
Dibromomethane	8260B	<5.0	ug/l			
1,2-Dichlorobenzene	8260B	<5.0	ug/l			
1,3-Dichlorobenzene	8260B	<5.0	ug/l			
1,4-Dichlorobenzene	8260B	<5.0	ug/l			
cis-1,4-Dichloro-2-butene	8260B	<10.0	ug/l			
trans-1,4-Dichloro-2-butene	8260B	<10.0	ug/l			
Dichlorodifluoromethane	8260B	<10.0	ug/l			
1,1-Dichloroethane	8260B	<5.0	ug/l			
1,2-Dichloroethane	8260B	<5.0	ug/l			
1,1-Dichloroethene	8260B	<5.0	ug/l			
cis-1,2-Dichloroethene	8260B	<5.0	ug/l			
trans-1,2-Dichloroethene	8260B	<5.0	ug/l			
1,2-Dichloropropane	8260B	<5.0	ug/l			
cis-1,3-Dichloropropene	8260B	<5.0	ug/l			
trans-1,3-Dichloropropene	8260B	<5.0	ug/l			
Diisopropyl ether (IPE)	8260B	<5.0	ug/l			
Ethyl benzene	8260B	<5.0	ug/l			
Ethyl methacrylate	8260B	<5.0	ug/l			
2-Hexanone	8260B	<5.0	ug/l			
Methylene chloride	8260B	<5.0	ug/l			
Methyl iodide	8260B	<5.0	ug/l			
4-Methyl-2-pentanone	8260B	<5.0	ug/l			
Methyl tertiary butyl ether (MTBE)	8260B	<5.0	ug/l			
Naphthalene	8260B	<5.0	ug/l			
Styrene	8260B	<5.0	ug/l			
1,1,2,2-Tetrachloroethane	8260B	<5.0	ug/l			
Tetrachloroethene	8260B	<5.0	ug/l			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Toluene	8260B	<5.0	ug/l			
1,1,1-Trichloroethane	8260B	<5.0	ug/l			
1,1,2-Trichloroethane	8260B	<5.0	ug/l			
Trichloroethene	8260B	<5.0	ug/l			
Trichlorofluoromethane	8260B	<10.0	ug/l			
1,2,3-Trichloropropane	8260B	<5.0	ug/l			
Vinyl acetate	8260B	<5.0	ug/l			
Vinyl chloride	8260B	<2.0	ug/l			
Total Xylenes	8260B	<15.0	ug/l			
BASE NEUTRAL/ACID EXTRACTABLES				09/17/98	09/17/98	JAF
Acenaphthene	8270C	<10.0	ug/l			
Acenaphthylene	8270C	<10.0	ug/l			
Acetophenone	8270C	<10.0	ug/l			
4-Aminobiphenyl	8270C	<10.0	ug/l			
Aniline	8270C	<10.0	ug/l			
Anthracene	8270C	<10.0	ug/l			
Benzidine	8270C	<10.0	ug/l			
Benzoic acid	8270C	<100.0	ug/l			
Benzo(a)anthracene	8270C	<10.0	ug/l			
Benzo(b+k)fluoranthene	8270C	<20.0	ug/l			
Benzo(g,h,i)perylene	8270C	<10.0	ug/l			
Benzo(a)pyrene	8270C	<10.0	ug/l			
Benzyl alcohol	8270C	<20.0	ug/l			
bis(2-Chloroethoxy)methane	8270C	<10.0	ug/l			
bis(2-Chloroethyl)ether	8270C	<10.0	ug/l			
bis(2-Chloroisopropyl)ether	8270C	<10.0	ug/l			
bis(2-Ethylhexyl)phthalate	8270C	<10.0	ug/l			
4-Bromophenylphenylether	8270C	<10.0	ug/l			
Butylbenzylphthalate	8270C	<10.0	ug/l			
Chloroaniline	8270C	<10.0	ug/l			
4-Chloro-3-methylphenol	8270C	<10.0	ug/l			
1-Chloronaphthalene	8270C	<10.0	ug/l			
2-Chloronaphthalene	8270C	<10.0	ug/l			
2-Chlorophenol	8270C	<10.0	ug/l			
4-Chlorophenylphenylether	8270C	<10.0	ug/l			
Chrysene	8270C	<10.0	ug/l			
m+p-Cresol	8270C	<20.0	ug/l			
o-Cresol	8270C	<10.0	ug/l			
Dibenzo(a,j)acridine	8270C	<10.0	ug/l			
Dibenzo(a,h)anthracene	8270C	<10.0	ug/l			
Dibenzofuran	8270C	<10.0	ug/l			
Di-N-Butylphthalate	8270C	<10.0	ug/l			
1,2-Dichlorobenzene	8270C	<10.0	ug/l			
1,3-Dichlorobenzene	8270C	<10.0	ug/l			
1,4-Dichlorobenzene	8270C	<10.0	ug/l			
3,3'-Dichlorobenzidine	8270C	<10.0	ug/l			
2,4-Dichlorophenol	8270C	<10.0	ug/l			
2,6-Dichlorophenol	8270C	<10.0	ug/l			
Diethylphthalate	8270C	<10.0	ug/l			
p-Dimethylaminoazobenzene	8270C	<10.0	ug/l			
7,12-Dimethylbenzo(a)anthracene	8270C	<10.0	ug/l			
a,a-Dimethylphenethylamine	8270C	<10.0	ug/l			
2,4-Dimethylphenol	8270C	<10.0	ug/l			
Dimethylphthalate	8270C	<10.0	ug/l			
4,6-Dinitro-2-methylphenol	8270C	<10.0	ug/l			
2,4-Dinitrophenol	8270C	<10.0	ug/l			
2,4-Dinitrotoluene	8270C	<10.0	ug/l			
2,6-Dinitrotoluene	8270C	<10.0	ug/l			
Di-N-Octylphthalate	8270C	<10.0	ug/l			
Diphenylamine	8270C	<10.0	ug/l			
Ethyl methanesulfonate	8270C	<10.0	ug/l			
Fluoranthene	8270C	<10.0	ug/l			
Fluorene	8270C	<10.0	ug/l			
Hexachlorobenzene	8270C	<10.0	ug/l			
Hexachlorobutadiene	8270C	<10.0	ug/l			
Hexachlorocyclopentadiene	8270C	<10.0	ug/l			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachloroethane	8270C	<10.0	ug/l			
Indeno(1,2,3-c,d)pyrene	8270C	<10.0	ug/l			
Isophorone	8270C	<10.0	ug/l			
3-Methylcholanthrene	8270C	<10.0	ug/l			
Methyl methanesulfonate	8270C	<10.0	ug/l			
2-Methylnaphthalene	8270C	<10.0	ug/l			
Naphthalene	8270C	<10.0	ug/l			
1-Naphthylamine	8270C	<10.0	ug/l			
2-Naphthylamine	8270C	<10.0	ug/l			
2-Nitroaniline	8270C	<10.0	ug/l			
3-Nitroaniline	8270C	<10.0	ug/l			
4-Nitroaniline	8270C	<10.0	ug/l			
Nitrobenzene	8270C	<10.0	ug/l			
2-Nitrophenol	8270C	<10.0	ug/l			
4-Nitrophenol	8270C	<10.0	ug/l			
N-Nitroso-di-butylamine	8270C	<10.0	ug/l			
N-Nitrosodimethylamine	8270C	<10.0	ug/l			
N-Nitrosodiphenylamine	8270C	<10.0	ug/l			
N-Nitroso-di-N-propylamine	8270C	<10.0	ug/l			
N-Nitrosopiperidine	8270C	<10.0	ug/l			
Pentachlorobenzene	8270C	<10.0	ug/l			
Pentachloronitrobenzene	8270C	<10.0	ug/l			
Pentachlorophenol	8270C	<10.0	ug/l			
Phenacetin	8270C	<10.0	ug/l			
Phenanthrene	8270C	<10.0	ug/l			
Phenol	8270C	<10.0	ug/l			
2-Picoline	8270C	<10.0	ug/l			
Pronamide	8270C	<10.0	ug/l			
Pyrene	8270C	<10.0	ug/l			
1,2,4,5-Tetrachlorobenzene	8270C	<10.0	ug/l			
2,3,4,6-Tetrachlorophenol	8270C	<10.0	ug/l			
1,2,4-Trichlorobenzene	8270C	<10.0	ug/l			
2,4,5-Trichlorophenol	8270C	<10.0	ug/l			
2,4,6-Trichlorophenol	8270C	<10.0	ug/l			

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

106 VANTAGE POINT DRIVE
CAYCE, SOUTH CAROLINA 29033

(803) 791-9700
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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146681NR
Description: GP-3 @ 8-9'

Coll. Date: 09/15/98
Coll. Time: 1415

Date Received: 09/17/98
Date Reported: 09/18/98

QA/QC Officer _____

V.P. Analytical _____

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	79.7	%		09/17/98	JPS
VOLATILE ORGANICS*					09/17/98	RED
Acetone	8260B	<1250	ug/kg			
Acetonitrile	8260B	<3140	ug/kg			
Acrolein	8260B	<3140	ug/kg			
Acrylonitrile	8260B	<3140	ug/kg			
Benzene	8260B	<314	ug/kg			
Bromodichloromethane	8260B	<314	ug/kg			
Bromoform	8260B	<314	ug/kg			
Bromomethane (Methyl bromide)	8260B	<627	ug/kg			
2-Butanone (MEK)	8260B	<314	ug/kg			
Carbon disulfide	8260B	<314	ug/kg			
Carbon tetrachloride	8260B	<314	ug/kg			
Chlorobenzene	8260B	<314	ug/kg			
Chloroethane	8260B	<627	ug/kg			
2-Chloroethylvinylether	8260B	<314	ug/kg			
Chloroform	8260B	<314	ug/kg			
Chloromethane (Methyl chloride)	8260B	795	ug/kg			
Dibromochloromethane	8260B	<314	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<314	ug/kg			
Dibromomethane	8260B	<314	ug/kg			
1,2-Dichlorobenzene	8260B	<314	ug/kg			
1,3-Dichlorobenzene	8260B	<314	ug/kg			
1,4-Dichlorobenzene	8260B	<314	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<627	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<627	ug/kg			
Dichlorodifluoromethane	8260B	<627	ug/kg			
1,1-Dichloroethane	8260B	<314	ug/kg			
1,2-Dichloroethane	8260B	<314	ug/kg			
1,1-Dichloroethene	8260B	<314	ug/kg			
cis-1,2-Dichloroethene	8260B	<314	ug/kg			
trans-1,2-Dichloroethene	8260B	<314	ug/kg			
1,2-Dichloropropane	8260B	<314	ug/kg			
cis-1,3-Dichloropropene	8260B	<314	ug/kg			
trans-1,3-Dichloropropene	8260B	<314	ug/kg			
Diisopropyl ether (IPE)	8260B	<314	ug/kg			
Ethyl benzene	8260B	<314	ug/kg			
Ethyl methacrylate	8260B	<314	ug/kg			
2-Hexanone	8260B	<314	ug/kg			
Methylene chloride	8260B	<314	ug/kg			
Methyl iodide	8260B	<314	ug/kg			
4-Methyl-2-pentanone	8260B	<314	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<314	ug/kg			
Naphthalene	8260B	1090	ug/kg			
Styrene	8260B	<314	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
1,1,2,2-Tetrachloroethane	8260B	<314	ug/kg			
Tetrachloroethene	8260B	<314	ug/kg			
Toluene	8260B	<314	ug/kg			
1,1,1-Trichloroethane	8260B	<314	ug/kg			
1,1,2-Trichloroethane	8260B	<314	ug/kg			
Trichloroethene	8260B	<314	ug/kg			
Trichlorofluoromethane	8260B	<627	ug/kg			
1,2,3-Trichloropropane	8260B	<314	ug/kg			
Vinyl acetate	8260B	<314	ug/kg			
Vinyl chloride	8260B	<627	ug/kg			
Total Xylenes	8260B	<941	ug/kg			
BASE NEUTRAL/ACID EXTRACTABLES*				09/17/98	09/17/98	JAF
Acenaphthene	8270C	<4180	ug/kg			
Acenaphthylene	8270C	<4180	ug/kg			
Acetophenone	8270C	<4180	ug/kg			
4-Aminobiphenyl	8270C	<4180	ug/kg			
Aniline	8270C	<4180	ug/kg			
Anthracene	8270C	5460	ug/kg			
Benzidine	8270C	<4180	ug/kg			
Benzoic acid	8270C	<4180	ug/kg			
Benzo(a)anthracene	8270C	9290	ug/kg			
Benzo(b+k)fluoranthene	8270C	14900	ug/kg			
Benzo(g,h,i)perylene	8270C	7470	ug/kg			
Benzo(a)pyrene	8270C	6900	ug/kg			
Benzyl alcohol	8270C	<8370	ug/kg			
bis(2-Chloroethoxy)methane	8270C	<4180	ug/kg			
bis(2-Chloroethyl)ether	8270C	<4180	ug/kg			
bis(2-Chloroisopropyl)ether	8270C	<4180	ug/kg			
bis(2-Ethylhexyl)phthalate	8270C	<4180	ug/kg			
4-Bromophenylphenylether	8270C	<4180	ug/kg			
Butylbenzylphthalate	8270C	<4180	ug/kg			
Chloroaniline	8270C	<4180	ug/kg			
4-Chloro-3-methylphenol	8270C	<4180	ug/kg			
1-Chloronaphthalene	8270C	<4180	ug/kg			
2-Chloronaphthalene	8270C	<4180	ug/kg			
2-Chlorophenol	8270C	<4180	ug/kg			
4-Chlorophenylphenylether	8270C	<4180	ug/kg			
Chrysene	8270C	13200	ug/kg			
m+p-Cresol	8270C	<8370	ug/kg			
o-Cresol	8270C	<4180	ug/kg			
Dibenzo(a,j)acridine	8270C	<4180	ug/kg			
Dibenzo(a,h)anthracene	8270C	<4180	ug/kg			
Dibenzofuran	8270C	<4180	ug/kg			
Di-N-Butylphthalate	8270C	<4180	ug/kg			
1,2-Dichlorobenzene	8270C	<4180	ug/kg			
1,3-Dichlorobenzene	8270C	<4180	ug/kg			
1,4-Dichlorobenzene	8270C	<4180	ug/kg			
3,3'-Dichlorobenzidine	8270C	<4180	ug/kg			
2,4-Dichlorophenol	8270C	<4180	ug/kg			
2,6-Dichlorophenol	8270C	<4180	ug/kg			
Diethylphthalate	8270C	<4180	ug/kg			
p-Dimethylaminoazobenzene	8270C	<4180	ug/kg			
7,12-Dimethylbenzo(a)anthracene	8270C	<4180	ug/kg			
a,a-Dimethylphenethylamine	8270C	<4180	ug/kg			
2,4-Dimethylphenol	8270C	<4180	ug/kg			
Dimethylphthalate	8270C	<4180	ug/kg			
4,6-Dinitro-2-methylphenol	8270C	<4180	ug/kg			
2,4-Dinitrophenol	8270C	<4180	ug/kg			
2,4-Dinitrotoluene	8270C	<4180	ug/kg			
2,6-Dinitrotoluene	8270C	<4180	ug/kg			
Di-N-Octylphthalate	8270C	<4180	ug/kg			
Diphenylamine	8270C	<4180	ug/kg			
Ethyl methanesulfonate	8270C	<4180	ug/kg			
Fluoranthene	8270C	15700	ug/kg			
Fluorene	8270C	<4180	ug/kg			
Hexachlorobenzene	8270C	<4180	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<4180	ug/kg			
Hexachlorocyclopentadiene	8270C	<4180	ug/kg			
Hexachloroethane	8270C	<4180	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	6820	ug/kg			
Isophorone	8270C	<4180	ug/kg			
3-Methylcholanthrene	8270C	<4180	ug/kg			
Methyl methanesulfonate	8270C	<4180	ug/kg			
2-Methylnaphthalene	8270C	<4180	ug/kg			
Naphthalene	8270C	<4180	ug/kg			
1-Naphthylamine	8270C	<4180	ug/kg			
2-Naphthylamine	8270C	<4180	ug/kg			
2-Nitroaniline	8270C	<4180	ug/kg			
3-Nitroaniline	8270C	<4180	ug/kg			
4-Nitroaniline	8270C	<4180	ug/kg			
Nitrobenzene	8270C	<4180	ug/kg			
2-Nitrophenol	8270C	<4180	ug/kg			
4-Nitrophenol	8270C	<4180	ug/kg			
N-Nitroso-di-butylamine	8270C	<4180	ug/kg			
N-Nitrosodimethylamine	8270C	<4180	ug/kg			
N-Nitrosodiphenylamine	8270C	<4180	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<4180	ug/kg			
N-Nitrosopiperidine	8270C	<4180	ug/kg			
Pentachlorobenzene	8270C	<4180	ug/kg			
Pentachloronitrobenzene	8270C	<4180	ug/kg			
Pentachlorophenol	8270C	<4180	ug/kg			
Phenacetin	8270C	<4180	ug/kg			
Phenanthrene	8270C	12500	ug/kg			
Phenol	8270C	<4180	ug/kg			
2-Picoline	8270C	<4180	ug/kg			
Pronamide	8270C	<4180	ug/kg			
Pyrene	8270C	23700	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<4180	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<4180	ug/kg			
1,2,4-Trichlorobenzene	8270C	<4180	ug/kg			
2,4,5-Trichlorophenol	8270C	<4180	ug/kg			
2,4,6-Trichlorophenol	8270C	<4180	ug/kg			

SHEALY ENVIRONMENTAL SERVICES, INC.

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146682NR
Description: GP-3

Coll. Date: 09/15/98
Coll. Time: 1430

Date Received: 09/17/98
Date Reported: 09/18/98

QA/QC Officer

V.P. Analytical

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
VOLATILE ORGANICS					09/17/98	SAG
Acetone	8260B	<20.0	ug/l			
Acetonitrile	8260B	<50.0	ug/l			
Acrolein	8260B	<50.0	ug/l			
Acrylonitrile	8260B	<50.0	ug/l			
Benzene	8260B	<5.0	ug/l			
Bromodichloromethane	8260B	<5.0	ug/l			
Bromoform	8260B	<5.0	ug/l			
Bromomethane (Methyl bromide)	8260B	<10.0	ug/l			
2-Butanone (MEK)	8260B	<5.0	ug/l			
Carbon disulfide	8260B	<5.0	ug/l			
Carbon tetrachloride	8260B	<5.0	ug/l			
Chlorobenzene	8260B	<5.0	ug/l			
Chloroethane	8260B	<10.0	ug/l			
2-Chloroethylvinylether	8260B	<5.0	ug/l			
Chloroform	8260B	<5.0	ug/l			
Chloromethane (Methyl chloride)	8260B	<10.0	ug/l			
Dibromochloromethane	8260B	<5.0	ug/l			
1,2-Dibromoethane (EDB)	8260B	<5.0	ug/l			
Dibromomethane	8260B	<5.0	ug/l			
1,2-Dichlorobenzene	8260B	<5.0	ug/l			
1,3-Dichlorobenzene	8260B	<5.0	ug/l			
1,4-Dichlorobenzene	8260B	<5.0	ug/l			
cis-1,4-Dichloro-2-butene	8260B	<10.0	ug/l			
trans-1,4-Dichloro-2-butene	8260B	<10.0	ug/l			
Dichlorodifluoromethane	8260B	<10.0	ug/l			
1,1-Dichloroethane	8260B	<5.0	ug/l			
1,2-Dichloroethane	8260B	<5.0	ug/l			
1,1-Dichloroethene	8260B	<5.0	ug/l			
cis-1,2-Dichloroethene	8260B	<5.0	ug/l			
trans-1,2-Dichloroethene	8260B	<5.0	ug/l			
1,2-Dichloropropane	8260B	<5.0	ug/l			
cis-1,3-Dichloropropene	8260B	<5.0	ug/l			
trans-1,3-Dichloropropene	8260B	<5.0	ug/l			
Diisopropyl ether (IPE)	8260B	<5.0	ug/l			
Ethyl benzene	8260B	<5.0	ug/l			
Ethyl methacrylate	8260B	<5.0	ug/l			
2-Hexanone	8260B	<5.0	ug/l			
Methylene chloride	8260B	<5.0	ug/l			
Methyl iodide	8260B	<5.0	ug/l			
4-Methyl-2-pentanone	8260B	<5.0	ug/l			
Methyl tertiary butyl ether (MTBE)	8260B	<5.0	ug/l			
Naphthalene	8260B	<5.0	ug/l			
Styrene	8260B	<5.0	ug/l			
1,1,2,2-Tetrachloroethane	8260B	<5.0	ug/l			
Tetrachloroethene	8260B	<5.0	ug/l			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Toluene	8260B	<5.0	ug/l			
1,1,1-Trichloroethane	8260B	<5.0	ug/l			
1,1,2-Trichloroethane	8260B	<5.0	ug/l			
Trichloroethene	8260B	<5.0	ug/l			
Trichlorofluoromethane	8260B	<10.0	ug/l			
1,2,3-Trichloropropane	8260B	<5.0	ug/l			
Vinyl acetate	8260B	<5.0	ug/l			
Vinyl chloride	8260B	<2.0	ug/l			
Total Xylenes	8260B	<15.0	ug/l			
BASE NEUTRAL/ACID EXTRACTABLES				09/17/98	09/17/98	JAF
Acenaphthene	8270C	<10.0	ug/l			
Acenaphthylene	8270C	<10.0	ug/l			
Acetophenone	8270C	<10.0	ug/l			
4-Aminobiphenyl	8270C	<10.0	ug/l			
Aniline	8270C	<10.0	ug/l			
Anthracene	8270C	<10.0	ug/l			
Benzidine	8270C	<10.0	ug/l			
Benzoic acid	8270C	<100.0	ug/l			
Benzo(a)anthracene	8270C	<10.0	ug/l			
Benzo(b+k)fluoranthene	8270C	<20.0	ug/l			
Benzo(g,h,i)perylene	8270C	<10.0	ug/l			
Benzo(a)pyrene	8270C	<10.0	ug/l			
Benzyl alcohol	8270C	<20.0	ug/l			
bis(2-Chloroethoxy)methane	8270C	<10.0	ug/l			
bis(2-Chloroethyl)ether	8270C	<10.0	ug/l			
bis(2-Chloroisopropyl)ether	8270C	<10.0	ug/l			
bis(2-Ethylhexyl)phthalate	8270C	<10.0	ug/l			
4-Bromophenylphenylether	8270C	<10.0	ug/l			
Butylbenzylphthalate	8270C	<10.0	ug/l			
Chloroaniline	8270C	<10.0	ug/l			
4-Chloro-3-methylphenol	8270C	<10.0	ug/l			
1-Chloronaphthalene	8270C	<10.0	ug/l			
2-Chloronaphthalene	8270C	<10.0	ug/l			
2-Chlorophenol	8270C	<10.0	ug/l			
4-Chlorophenylphenylether	8270C	<10.0	ug/l			
Chrysene	8270C	<10.0	ug/l			
m+p-Cresol	8270C	<20.0	ug/l			
o-Cresol	8270C	<10.0	ug/l			
Dibenzo(a,j)acridine	8270C	<10.0	ug/l			
Dibenzo(a,h)anthracene	8270C	<10.0	ug/l			
Dibenzofuran	8270C	<10.0	ug/l			
Di-N-Butylphthalate	8270C	<10.0	ug/l			
1,2-Dichlorobenzene	8270C	<10.0	ug/l			
1,3-Dichlorobenzene	8270C	<10.0	ug/l			
1,4-Dichlorobenzene	8270C	<10.0	ug/l			
3,3'-Dichlorobenzidine	8270C	<10.0	ug/l			
2,4-Dichlorophenol	8270C	<10.0	ug/l			
2,6-Dichlorophenol	8270C	<10.0	ug/l			
Diethylphthalate	8270C	<10.0	ug/l			
p-Dimethylaminoazobenzene	8270C	<10.0	ug/l			
7,12-Dimethylbenzo(a)anthracene	8270C	<10.0	ug/l			
a,a-Dimethylphenethylamine	8270C	<10.0	ug/l			
2,4-Dimethylphenol	8270C	<10.0	ug/l			
Dimethylphthalate	8270C	<10.0	ug/l			
4,6-Dinitro-2-methylphenol	8270C	<10.0	ug/l			
2,4-Dinitrophenol	8270C	<10.0	ug/l			
2,4-Dinitrotoluene	8270C	<10.0	ug/l			
2,6-Dinitrotoluene	8270C	<10.0	ug/l			
Di-N-Octylphthalate	8270C	<10.0	ug/l			
Diphenylamine	8270C	<10.0	ug/l			
Ethyl methanesulfonate	8270C	<10.0	ug/l			
Fluoranthene	8270C	<10.0	ug/l			
Fluorene	8270C	<10.0	ug/l			
Hexachlorobenzene	8270C	<10.0	ug/l			
Hexachlorobutadiene	8270C	<10.0	ug/l			
Hexachlorocyclopentadiene	8270C	<10.0	ug/l			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachloroethane	8270C	<10.0	ug/l			
Indeno(1,2,3-c,d)pyrene	8270C	<10.0	ug/l			
Isophorone	8270C	<10.0	ug/l			
3-Methylcholanthrene	8270C	<10.0	ug/l			
Methyl methanesulfonate	8270C	<10.0	ug/l			
2-Methylnaphthalene	8270C	<10.0	ug/l			
Naphthalene	8270C	<10.0	ug/l			
1-Naphthylamine	8270C	<10.0	ug/l			
2-Naphthylamine	8270C	<10.0	ug/l			
2-Nitroaniline	8270C	<10.0	ug/l			
3-Nitroaniline	8270C	<10.0	ug/l			
4-Nitroaniline	8270C	<10.0	ug/l			
Nitrobenzene	8270C	<10.0	ug/l			
2-Nitrophenol	8270C	<10.0	ug/l			
4-Nitrophenol	8270C	<10.0	ug/l			
N-Nitroso-di-butylamine	8270C	<10.0	ug/l			
N-Nitrosodimethylamine	8270C	<10.0	ug/l			
N-Nitrosodiphenylamine	8270C	<10.0	ug/l			
N-Nitroso-di-N-propylamine	8270C	<10.0	ug/l			
N-Nitrosopiperidine	8270C	<10.0	ug/l			
Pentachlorobenzene	8270C	<10.0	ug/l			
Pentachloronitrobenzene	8270C	<10.0	ug/l			
Pentachlorophenol	8270C	<10.0	ug/l			
Phenacetin	8270C	<10.0	ug/l			
Phenanthrene	8270C	<10.0	ug/l			
Phenol	8270C	<10.0	ug/l			
2-Picoline	8270C	<10.0	ug/l			
Pronamide	8270C	<10.0	ug/l			
Pyrene	8270C	<10.0	ug/l			
1,2,4,5-Tetrachlorobenzene	8270C	<10.0	ug/l			
2,3,4,6-Tetrachlorophenol	8270C	<10.0	ug/l			
1,2,4-Trichlorobenzene	8270C	<10.0	ug/l			
2,4,5-Trichlorophenol	8270C	<10.0	ug/l			
2,4,6-Trichlorophenol	8270C	<10.0	ug/l			

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

106 VANTAGE POINT DRIVE
CAYCE, SOUTH CAROLINA 29033

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FAX (803) 791-9111
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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146683NR
Description: GP-8

Coll. Date: 09/15/98
Coll. Time: 1535

Date Received: 09/17/98
Date Reported: 09/18/98

QA/QC Officer _____

V.P. Analytical _____

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
VOLATILE ORGANICS					09/17/98	SAG
Acetone	8260B	<20.0	ug/l			
Acetonitrile	8260B	<50.0	ug/l			
Acrolein	8260B	<50.0	ug/l			
Acrylonitrile	8260B	<50.0	ug/l			
Benzene	8260B	<5.0	ug/l			
Bromodichloromethane	8260B	<5.0	ug/l			
Bromoform	8260B	<5.0	ug/l			
Bromomethane (Methyl bromide)	8260B	<10.0	ug/l			
2-Butanone (MEK)	8260B	<5.0	ug/l			
Carbon disulfide	8260B	<5.0	ug/l			
Carbon tetrachloride	8260B	<5.0	ug/l			
Chlorobenzene	8260B	<5.0	ug/l			
Chloroethane	8260B	<10.0	ug/l			
2-Chloroethylvinylether	8260B	<5.0	ug/l			
Chloroform	8260B	<5.0	ug/l			
Chloromethane (Methyl chloride)	8260B	<10.0	ug/l			
Dibromochloromethane	8260B	<5.0	ug/l			
1,2-Dibromoethane (EDB)	8260B	<5.0	ug/l			
Dibromomethane	8260B	<5.0	ug/l			
1,2-Dichlorobenzene	8260B	<5.0	ug/l			
1,3-Dichlorobenzene	8260B	<5.0	ug/l			
1,4-Dichlorobenzene	8260B	<5.0	ug/l			
cis-1,4-Dichloro-2-butene	8260B	<10.0	ug/l			
trans-1,4-Dichloro-2-butene	8260B	<10.0	ug/l			
Dichlorodifluoromethane	8260B	<10.0	ug/l			
1,1-Dichloroethane	8260B	<5.0	ug/l			
1,2-Dichloroethane	8260B	<5.0	ug/l			
1,1-Dichloroethene	8260B	<5.0	ug/l			
cis-1,2-Dichloroethene	8260B	<5.0	ug/l			
trans-1,2-Dichloroethene	8260B	<5.0	ug/l			
1,2-Dichloropropane	8260B	<5.0	ug/l			
cis-1,3-Dichloropropene	8260B	<5.0	ug/l			
trans-1,3-Dichloropropene	8260B	<5.0	ug/l			
Diisopropyl ether (IPE)	8260B	<5.0	ug/l			
Ethyl benzene	8260B	<5.0	ug/l			
Ethyl methacrylate	8260B	<5.0	ug/l			
2-Hexanone	8260B	<5.0	ug/l			
Methylene chloride	8260B	<5.0	ug/l			
Methyl iodide	8260B	<5.0	ug/l			
4-Methyl-2-pentanone	8260B	<5.0	ug/l			
Methyl tertiary butyl ether (MTBE)	8260B	<5.0	ug/l			
Naphthalene	8260B	<5.0	ug/l			
Styrene	8260B	<5.0	ug/l			
1,1,2,2-Tetrachloroethane	8260B	<5.0	ug/l			
Tetrachloroethene	8260B	<5.0	ug/l			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Toluene	8260B	<5.0	ug/l			
1,1,1-Trichloroethane	8260B	<5.0	ug/l			
1,1,2-Trichloroethane	8260B	<5.0	ug/l			
Trichloroethene	8260B	<5.0	ug/l			
Trichlorofluoromethane	8260B	<10.0	ug/l			
1,2,3-Trichloropropane	8260B	<5.0	ug/l			
Vinyl acetate	8260B	<5.0	ug/l			
Vinyl chloride	8260B	<2.0	ug/l			
Total Xylenes	8260B	<15.0	ug/l			
BASE NEUTRAL/ACID EXTRACTABLES				09/17/98	09/17/98	JAF
Acenaphthene	8270C	<10.0	ug/l			
Acenaphthylene	8270C	<10.0	ug/l			
Acetophenone	8270C	<10.0	ug/l			
4-Aminobiphenyl	8270C	<10.0	ug/l			
Aniline	8270C	<10.0	ug/l			
Anthracene	8270C	<10.0	ug/l			
Benzidine	8270C	<10.0	ug/l			
Benzoic acid	8270C	<100.0	ug/l			
Benzo(a)anthracene	8270C	<10.0	ug/l			
Benzo(b+k)fluoranthene	8270C	<20.0	ug/l			
Benzo(g,h,i)perylene	8270C	<10.0	ug/l			
Benzo(a)pyrene	8270C	<10.0	ug/l			
Benzyl alcohol	8270C	<20.0	ug/l			
bis(2-Chloroethoxy)methane	8270C	<10.0	ug/l			
bis(2-Chloroethyl)ether	8270C	<10.0	ug/l			
bis(2-Chloroisopropyl)ether	8270C	<10.0	ug/l			
bis(2-Ethylhexyl)phthalate	8270C	<10.0	ug/l			
4-Bromophenylphenylether	8270C	<10.0	ug/l			
Butylbenzylphthalate	8270C	<10.0	ug/l			
Chloroaniline	8270C	<10.0	ug/l			
4-Chloro-3-methylphenol	8270C	<10.0	ug/l			
1-Chloronaphthalene	8270C	<10.0	ug/l			
2-Chloronaphthalene	8270C	<10.0	ug/l			
2-Chlorophenol	8270C	<10.0	ug/l			
4-Chlorophenylphenylether	8270C	<10.0	ug/l			
Chrysene	8270C	<10.0	ug/l			
m+p-Cresol	8270C	<20.0	ug/l			
o-Cresol	8270C	<10.0	ug/l			
Dibenzo(a,j)acridine	8270C	<10.0	ug/l			
Dibenzo(a,h)anthracene	8270C	<10.0	ug/l			
Dibenzofuran	8270C	<10.0	ug/l			
Di-N-Butylphthalate	8270C	<10.0	ug/l			
1,2-Dichlorobenzene	8270C	<10.0	ug/l			
1,3-Dichlorobenzene	8270C	<10.0	ug/l			
1,4-Dichlorobenzene	8270C	<10.0	ug/l			
3,3'-Dichlorobenzidine	8270C	<10.0	ug/l			
2,4-Dichlorophenol	8270C	<10.0	ug/l			
2,6-Dichlorophenol	8270C	<10.0	ug/l			
Diethylphthalate	8270C	<10.0	ug/l			
p-Dimethylaminoazobenzene	8270C	<10.0	ug/l			
7,12-Dimethylbenzo(a)anthracene	8270C	<10.0	ug/l			
a,a-Dimethylphenethylamine	8270C	<10.0	ug/l			
2,4-Dimethylphenol	8270C	<10.0	ug/l			
Dimethylphthalate	8270C	<10.0	ug/l			
4,6-Dinitro-2-methylphenol	8270C	<10.0	ug/l			
2,4-Dinitrophenol	8270C	<10.0	ug/l			
2,4-Dinitrotoluene	8270C	<10.0	ug/l			
2,6-Dinitrotoluene	8270C	<10.0	ug/l			
Di-N-Octylphthalate	8270C	<10.0	ug/l			
Diphenylamine	8270C	<10.0	ug/l			
Ethyl methanesulfonate	8270C	<10.0	ug/l			
Fluoranthene	8270C	<10.0	ug/l			
Fluorene	8270C	<10.0	ug/l			
Hexachlorobenzene	8270C	<10.0	ug/l			
Hexachlorobutadiene	8270C	<10.0	ug/l			
Hexachlorocyclopentadiene	8270C	<10.0	ug/l			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachloroethane	8270C	<10.0	ug/l			
Indeno(1,2,3-c,d)pyrene	8270C	<10.0	ug/l			
Isophorone	8270C	<10.0	ug/l			
3-Methylcholanthrene	8270C	<10.0	ug/l			
Methyl methanesulfonate	8270C	<10.0	ug/l			
2-Methylnaphthalene	8270C	<10.0	ug/l			
Naphthalene	8270C	<10.0	ug/l			
1-Naphthylamine	8270C	<10.0	ug/l			
2-Naphthylamine	8270C	<10.0	ug/l			
2-Nitroaniline	8270C	<10.0	ug/l			
3-Nitroaniline	8270C	<10.0	ug/l			
4-Nitroaniline	8270C	<10.0	ug/l			
Nitrobenzene	8270C	<10.0	ug/l			
2-Nitrophenol	8270C	<10.0	ug/l			
4-Nitrophenol	8270C	<10.0	ug/l			
N-Nitroso-di-butylamine	8270C	<10.0	ug/l			
N-Nitrosodimethylamine	8270C	<10.0	ug/l			
N-Nitrosodiphenylamine	8270C	<10.0	ug/l			
N-Nitroso-di-N-propylamine	8270C	<10.0	ug/l			
N-Nitrosopiperidine	8270C	<10.0	ug/l			
Pentachlorobenzene	8270C	<10.0	ug/l			
Pentachloronitrobenzene	8270C	<10.0	ug/l			
Pentachlorophenol	8270C	<10.0	ug/l			
Phenacetin	8270C	<10.0	ug/l			
Phenanthrene	8270C	<10.0	ug/l			
Phenol	8270C	<10.0	ug/l			
2-Picoline	8270C	<10.0	ug/l			
Pronamide	8270C	<10.0	ug/l			
Pyrene	8270C	<10.0	ug/l			
1,2,4,5-Tetrachlorobenzene	8270C	<10.0	ug/l			
2,3,4,6-Tetrachlorophenol	8270C	<10.0	ug/l			
1,2,4-Trichlorobenzene	8270C	<10.0	ug/l			
2,4,5-Trichlorophenol	8270C	<10.0	ug/l			
2,4,6-Trichlorophenol	8270C	<10.0	ug/l			

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146684NR
Description: GP-8 @ 2-4'

Coll. Date: 09/15/98
Coll. Time: 1615

Date Received: 09/17/98
Date Reported: 09/18/98

QA/QC Officer _____

V.P. Analytical _____

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	70.2	%		09/17/98	JPS
VOLATILE ORGANICS*					09/17/98	RED
Acetone	8260B	<28.5	ug/kg			
Acetonitrile	8260B	<71.2	ug/kg			
Acrolein	8260B	<71.2	ug/kg			
Acrylonitrile	8260B	<71.2	ug/kg			
Benzene	8260B	<7.1	ug/kg			
Bromodichloromethane	8260B	<7.1	ug/kg			
Bromoform	8260B	<7.1	ug/kg			
Bromomethane (Methyl bromide)	8260B	<14.2	ug/kg			
2-Butanone (MEK)	8260B	<7.1	ug/kg			
Carbon disulfide	8260B	<7.1	ug/kg			
Carbon tetrachloride	8260B	<7.1	ug/kg			
Chlorobenzene	8260B	<7.1	ug/kg			
Chloroethane	8260B	<14.2	ug/kg			
2-Chloroethylvinylether	8260B	<7.1	ug/kg			
Chloroform	8260B	<7.1	ug/kg			
Chloromethane (Methyl chloride)	8260B	<14.2	ug/kg			
Dibromochloromethane	8260B	<7.1	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<7.1	ug/kg			
Dibromomethane	8260B	<7.1	ug/kg			
1,2-Dichlorobenzene	8260B	<7.1	ug/kg			
1,3-Dichlorobenzene	8260B	<7.1	ug/kg			
1,4-Dichlorobenzene	8260B	<7.1	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<14.2	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<14.2	ug/kg			
Dichlorodifluoromethane	8260B	<14.2	ug/kg			
1,1-Dichloroethane	8260B	<7.1	ug/kg			
1,2-Dichloroethane	8260B	<7.1	ug/kg			
1,1-Dichloroethene	8260B	<7.1	ug/kg			
cis-1,2-Dichloroethene	8260B	<7.1	ug/kg			
trans-1,2-Dichloroethene	8260B	<7.1	ug/kg			
1,2-Dichloropropane	8260B	<7.1	ug/kg			
cis-1,3-Dichloropropene	8260B	<7.1	ug/kg			
trans-1,3-Dichloropropene	8260B	<7.1	ug/kg			
Diisopropyl ether (IPE)	8260B	<7.1	ug/kg			
Ethyl benzene	8260B	<7.1	ug/kg			
Ethyl methacrylate	8260B	<7.1	ug/kg			
2-Hexanone	8260B	<7.1	ug/kg			
Methylene chloride	8260B	<7.1	ug/kg			
Methyl iodide	8260B	<7.1	ug/kg			
4-Methyl-2-pentanone	8260B	<7.1	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<7.1	ug/kg			
Naphthalene	8260B	14.2	ug/kg			
Styrene	8260B	<7.1	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
1,1,2,2-Tetrachloroethane	8260B	<7.1	ug/kg			
Tetrachloroethene	8260B	<7.1	ug/kg			
Toluene	8260B	<7.1	ug/kg			
1,1,1-Trichloroethane	8260B	<7.1	ug/kg			
1,1,2-Trichloroethane	8260B	<7.1	ug/kg			
Trichloroethene	8260B	<7.1	ug/kg			
Trichlorofluoromethane	8260B	<14.2	ug/kg			
1,2,3-Trichloropropane	8260B	<7.1	ug/kg			
Vinyl acetate	8260B	<7.1	ug/kg			
Vinyl chloride	8260B	<14.2	ug/kg			
Total Xylenes	8260B	<21.4	ug/kg			
BASE NEUTRAL/ACID EXTRACTABLES*				09/17/98	09/17/98	JAF
Acenaphthene	8270C	<474	ug/kg			
Acenaphthylene	8270C	<474	ug/kg			
Acetophenone	8270C	<474	ug/kg			
4-Aminobiphenyl	8270C	<474	ug/kg			
Aniline	8270C	<474	ug/kg			
Anthracene	8270C	<474	ug/kg			
Benzidine	8270C	<474	ug/kg			
Benzoic acid	8270C	<474	ug/kg			
Benzo(a)anthracene	8270C	<474	ug/kg			
Benzo(b+k)fluoranthene	8270C	<950	ug/kg			
Benzo(g,h,i)perylene	8270C	<474	ug/kg			
Benzo(a)pyrene	8270C	<474	ug/kg			
Benzyl alcohol	8270C	<950	ug/kg			
bis(2-Chloroethoxy)methane	8270C	<474	ug/kg			
bis(2-Chloroethyl)ether	8270C	<474	ug/kg			
bis(2-Chloroisopropyl)ether	8270C	<474	ug/kg			
bis(2-Ethylhexyl)phthalate	8270C	<474	ug/kg			
4-Bromophenylphenylether	8270C	<474	ug/kg			
Butylbenzylphthalate	8270C	<474	ug/kg			
Chloroaniline	8270C	<474	ug/kg			
4-Chloro-3-methylphenol	8270C	<474	ug/kg			
1-Chloronaphthalene	8270C	<474	ug/kg			
2-Chloronaphthalene	8270C	<474	ug/kg			
2-Chlorophenol	8270C	<474	ug/kg			
4-Chlorophenylphenylether	8270C	<474	ug/kg			
Chrysene	8270C	<474	ug/kg			
m+p-Cresol	8270C	<950	ug/kg			
o-Cresol	8270C	<474	ug/kg			
Dibenzo(a,j)acridine	8270C	<474	ug/kg			
Dibenzo(a,h)anthracene	8270C	<474	ug/kg			
Dibenzofuran	8270C	<474	ug/kg			
Di-N-Butylphthalate	8270C	<474	ug/kg			
1,2-Dichlorobenzene	8270C	<474	ug/kg			
1,3-Dichlorobenzene	8270C	<474	ug/kg			
1,4-Dichlorobenzene	8270C	<474	ug/kg			
3,3'-Dichlorobenzidine	8270C	<474	ug/kg			
2,4-Dichlorophenol	8270C	<474	ug/kg			
2,6-Dichlorophenol	8270C	<474	ug/kg			
Diethylphthalate	8270C	<474	ug/kg			
p-Dimethylaminoazobenzene	8270C	<474	ug/kg			
7,12-Dimethylbenzo(a)anthracene	8270C	<474	ug/kg			
a,a-Dimethylphenethylamine	8270C	<474	ug/kg			
2,4-Dimethylphenol	8270C	<474	ug/kg			
Dimethylphthalate	8270C	<474	ug/kg			
4,6-Dinitro-2-methylphenol	8270C	<474	ug/kg			
2,4-Dinitrophenol	8270C	<474	ug/kg			
2,4-Dinitrotoluene	8270C	<474	ug/kg			
2,6-Dinitrotoluene	8270C	<474	ug/kg			
Di-N-Octylphthalate	8270C	<474	ug/kg			
Diphenylamine	8270C	<474	ug/kg			
Ethyl methanesulfonate	8270C	<474	ug/kg			
Fluoranthene	8270C	<474	ug/kg			
Fluorene	8270C	<474	ug/kg			
Hexachlorobenzene	8270C	<474	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<474	ug/kg			
Hexachlorocyclopentadiene	8270C	<474	ug/kg			
Hexachloroethane	8270C	<474	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	<474	ug/kg			
Isophorone	8270C	<474	ug/kg			
3-Methylcholanthrene	8270C	<474	ug/kg			
Methyl methanesulfonate	8270C	<474	ug/kg			
2-Methylnaphthalene	8270C	<474	ug/kg			
Naphthalene	8270C	<474	ug/kg			
1-Naphthylamine	8270C	<474	ug/kg			
2-Naphthylamine	8270C	<474	ug/kg			
2-Nitroaniline	8270C	<474	ug/kg			
3-Nitroaniline	8270C	<474	ug/kg			
4-Nitroaniline	8270C	<474	ug/kg			
Nitrobenzene	8270C	<474	ug/kg			
2-Nitrophenol	8270C	<474	ug/kg			
4-Nitrophenol	8270C	<474	ug/kg			
N-Nitroso-di-butylamine	8270C	<474	ug/kg			
N-Nitrosodimethylamine	8270C	<474	ug/kg			
N-Nitrosodiphenylamine	8270C	<474	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<474	ug/kg			
N-Nitrosopiperidine	8270C	<474	ug/kg			
Pentachlorobenzene	8270C	<474	ug/kg			
Pentachloronitrobenzene	8270C	<474	ug/kg			
Pentachlorophenol	8270C	<474	ug/kg			
Phenacetin	8270C	<474	ug/kg			
Phenanthrene	8270C	<474	ug/kg			
Phenol	8270C	<474	ug/kg			
2-Picoline	8270C	<474	ug/kg			
Pronamide	8270C	<474	ug/kg			
Pyrene	8270C	<474	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<474	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<474	ug/kg			
1,2,4-Trichlorobenzene	8270C	<474	ug/kg			
2,4,5-Trichlorophenol	8270C	<474	ug/kg			
2,4,6-Trichlorophenol	8270C	<474	ug/kg			

USE BALL POINT PEN ONLY, PRESS HARD

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

NPDES # 1040-93-110

CHAIN OF CUSTODY # P 1 of 2

Client Name SHME

Reporting Address P.O. Box 7668
Charlotte, NC 28241

Attention HI Quarles

Telephone No. 704-523-4726 P.O. No. 21554

County

Receiving Stream

Outfall No.

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

Sample ID (Location)	Yr. 1995 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	# 8260	# 8270 BNA	TS	REMARKS	SESI LAB I.D.
GP-1@2-4'	Start 9/15 Finish	1100		X		X	2																	X	X	X	OVM: 500 ppm	146679 NR
GP-1	Start 9/15 Finish	1145	X			X	5																	X	X		HCl preserved all waters 8260	146680 NR
GP-3@8-9'	Start 9/15 Finish ~~9/15~~	1415		X		X	2																	X	X	Y	OVM >1000 ppm	146681 NR
GP-3	Start 9/15 Finish	1430	X			X	5																	X	X			146682 NR
GP-8	Start 9/15 Finish	1535	X			X	5																	X	X			146683 NR
GP-8@2-4'	Start 9/15 Finish	1615		X		X	2																	X	X	X		146684 NR
	Start Finish																										24hr TAT	1
	Start Finish																											

← PRESERVATION (CODE)

CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = HCl

LAB USE ONLY

Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other:

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample
Print Name: Kevin Surratt	9-15 1630			
Signature:				
Relinquished by (Sig.)	Date/Time 9/17/98 930	Received by (Sig.)	Date/Time 9/17/98 9:40	
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time 9/17/98 1120	

Custody Seal Intact (Circle)
YES NO NONE

Receipt TRC _____ mg/l

Receipt pH _____ su

Receipt Temp. 2.0 °C

Received on Ice (Circle)
YES NO ICE PACK

AMERICAN SYSTEMS, COLUMBIA, S.C.

White Copy: Sampler — Yellow Copy: Shealy — Pink Copy: Report

FAXED

SHEALY ENVIRONMENTAL SERVICES, INC.
FACSIMILE COVER SHEET

106 VANTAGE POINT DRIVE
CAYCE, SC 29033
PHONE: (803) 791-9700
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Cayce, SC 29033
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Charlotte, NC 28273
Ph: (704) 583-0990
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DATE: 9-18-98

TO: Al Quarles

COMPANY/LOCATION: SAME

FAX NUMBER: 704-525-3953

NUMBER OF PAGES INCLUDING COVER SHEET: 20

FROM: Elaine Poarch

COMMENTS:

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

106 VANTAGE POINT DRIVE
CAYCE, SOUTH CAROLINA 29033

(803) 791-9700
FAX (803) 791-9111
www.shealyenvironmental.com

CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146685NR
Description: GP-5 @ 10-12'

Coll. Date: 09/16/98
Coll. Time: 1020

Date Received: 09/17/98
Date Reported: 09/18/98

QA/QC Officer _____

V.P. Analytical _____

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	68.7	%		09/17/98	JPS
VOLATILE ORGANICS*					09/17/98	RED
Acetone	8260B	27.7	ug/kg			
Acetonitrile	8260B	<72.8	ug/kg			
Acrolein	8260B	<72.8	ug/kg			
Acrylonitrile	8260B	<72.8	ug/kg			
Benzene	8260B	<7.3	ug/kg			
Bromodichloromethane	8260B	<7.3	ug/kg			
Bromoform	8260B	<7.3	ug/kg			
Bromomethane (Methyl bromide)	8260B	<14.6	ug/kg			
2-Butanone (MEK)	8260B	<7.3	ug/kg			
Carbon disulfide	8260B	<7.3	ug/kg			
Carbon tetrachloride	8260B	<7.3	ug/kg			
Chlorobenzene	8260B	<7.3	ug/kg			
Chloroethane	8260B	<14.6	ug/kg			
2-Chloroethylvinylether	8260B	<7.3	ug/kg			
Chloroform	8260B	<7.3	ug/kg			
Chloromethane (Methyl chloride)	8260B	<14.6	ug/kg			
Dibromochloromethane	8260B	<7.3	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<7.3	ug/kg			
Dibromomethane	8260B	<7.3	ug/kg			
1,2-Dichlorobenzene	8260B	<7.3	ug/kg			
1,3-Dichlorobenzene	8260B	<7.3	ug/kg			
1,4-Dichlorobenzene	8260B	<7.3	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<14.6	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<14.6	ug/kg			
Dichlorodifluoromethane	8260B	<14.6	ug/kg			
1,1-Dichloroethane	8260B	<7.3	ug/kg			
1,2-Dichloroethane	8260B	<7.3	ug/kg			
1,1-Dichloroethene	8260B	<7.3	ug/kg			
cis-1,2-Dichloroethene	8260B	<7.3	ug/kg			
trans-1,2-Dichloroethene	8260B	<7.3	ug/kg			
1,2-Dichloropropane	8260B	<7.3	ug/kg			
cis-1,3-Dichloropropene	8260B	<7.3	ug/kg			
trans-1,3-Dichloropropene	8260B	<7.3	ug/kg			
Diisopropyl ether (IPE)	8260B	<7.3	ug/kg			
Ethyl benzene	8260B	<7.3	ug/kg			
Ethyl methacrylate	8260B	<7.3	ug/kg			
2-Hexanone	8260B	<7.3	ug/kg			
Methylene chloride	8260B	<7.3	ug/kg			
Methyl iodide	8260B	<7.3	ug/kg			
4-Methyl-2-pentanone	8260B	<7.3	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<7.3	ug/kg			
Naphthalene	8260B	<7.3	ug/kg			
Styrene	8260B	<7.3	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<485	ug/kg			
Hexachlorocyclopentadiene	8270C	<485	ug/kg			
Hexachloroethane	8270C	<485	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	<485	ug/kg			
Isophorone	8270C	<485	ug/kg			
3-Methylcholanthrene	8270C	<485	ug/kg			
Methyl methanesulfonate	8270C	<485	ug/kg			
2-Methylnaphthalene	8270C	<485	ug/kg			
Naphthalene	8270C	<485	ug/kg			
1-Naphthylamine	8270C	<485	ug/kg			
2-Naphthylamine	8270C	<485	ug/kg			
2-Nitroaniline	8270C	<485	ug/kg			
3-Nitroaniline	8270C	<485	ug/kg			
4-Nitroaniline	8270C	<485	ug/kg			
Nitrobenzene	8270C	<485	ug/kg			
2-Nitrophenol	8270C	<485	ug/kg			
4-Nitrophenol	8270C	<485	ug/kg			
N-Nitroso-di-butylamine	8270C	<485	ug/kg			
N-Nitrosodimethylamine	8270C	<485	ug/kg			
N-Nitrosodiphenylamine	8270C	<485	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<485	ug/kg			
N-Nitrosopiperidine	8270C	<485	ug/kg			
Pentachlorobenzene	8270C	<485	ug/kg			
Pentachloronitrobenzene	8270C	<485	ug/kg			
Pentachlorophenol	8270C	<485	ug/kg			
Phenacetin	8270C	<485	ug/kg			
Phenanthrene	8270C	<485	ug/kg			
Phenol	8270C	<485	ug/kg			
2-Picoline	8270C	<485	ug/kg			
Pronamide	8270C	<485	ug/kg			
Pyrene	8270C	<485	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<485	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<485	ug/kg			
1,2,4-Trichlorobenzene	8270C	<485	ug/kg			
2,4,5-Trichlorophenol	8270C	<485	ug/kg			
2,4,6-Trichlorophenol	8270C	<485	ug/kg			

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146686NR
Description: GP-4 @ 2-4'

Coll. Date: 09/16/98
Coll. Time: 1115

Date Received: 09/17/98
Date Reported: 09/18/98

QA/QC Officer _____

V.P. Analytical _____

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	88.7	%		09/17/98	JPS
VOLATILE ORGANICS*					09/17/98	RED
Acetone	8260B	39.8	ug/kg			
Acetonitrile	8260B	<56.4	ug/kg			
Acrolein	8260B	<56.4	ug/kg			
Acrylonitrile	8260B	<56.4	ug/kg			
Benzene	8260B	<5.6	ug/kg			
Bromodichloromethane	8260B	<5.6	ug/kg			
Bromoform	8260B	<5.6	ug/kg			
Bromomethane (Methyl bromide)	8260B	<11.3	ug/kg			
2-Butanone (MEK)	8260B	<5.6	ug/kg			
Carbon disulfide	8260B	<5.6	ug/kg			
Carbon tetrachloride	8260B	<5.6	ug/kg			
Chlorobenzene	8260B	<5.6	ug/kg			
Chloroethane	8260B	<11.3	ug/kg			
2-Chloroethylvinylether	8260B	<5.6	ug/kg			
Chloroform	8260B	<5.6	ug/kg			
Chloromethane (Methyl chloride)	8260B	<11.3	ug/kg			
Dibromochloromethane	8260B	<5.6	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<5.6	ug/kg			
Dibromomethane	8260B	<5.6	ug/kg			
1,2-Dichlorobenzene	8260B	<5.6	ug/kg			
1,3-Dichlorobenzene	8260B	<5.6	ug/kg			
1,4-Dichlorobenzene	8260B	<5.6	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<11.3	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<11.3	ug/kg			
Dichlorodifluoromethane	8260B	<11.3	ug/kg			
1,1-Dichloroethane	8260B	<5.6	ug/kg			
1,2-Dichloroethane	8260B	<5.6	ug/kg			
1,1-Dichloroethene	8260B	<5.6	ug/kg			
cis-1,2-Dichloroethene	8260B	<5.6	ug/kg			
trans-1,2-Dichloroethene	8260B	<5.6	ug/kg			
1,2-Dichloropropane	8260B	<5.6	ug/kg			
cis-1,3-Dichloropropene	8260B	<5.6	ug/kg			
trans-1,3-Dichloropropene	8260B	<5.6	ug/kg			
Diisopropyl ether (IPE)	8260B	<5.6	ug/kg			
Ethyl benzene	8260B	<5.6	ug/kg			
Ethyl methacrylate	8260B	<5.6	ug/kg			
2-Hexanone	8260B	<5.6	ug/kg			
Methylene chloride	8260B	<5.6	ug/kg			
Methyl iodide	8260B	<5.6	ug/kg			
4-Methyl-2-pentanone	8260B	<5.6	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<5.6	ug/kg			
Naphthalene	8260B	<5.6	ug/kg			
Styrene	8260B	<5.6	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
1,1,2,2-Tetrachloroethane	8260B	<5.6	ug/kg			
Tetrachloroethene	8260B	<5.6	ug/kg			
Toluene	8260B	<5.6	ug/kg			
1,1,1-Trichloroethane	8260B	<5.6	ug/kg			
1,1,2-Trichloroethane	8260B	<5.6	ug/kg			
Trichloroethene	8260B	<5.6	ug/kg			
Trichlorofluoromethane	8260B	<11.3	ug/kg			
1,2,3-Trichloropropane	8260B	<5.6	ug/kg			
Vinyl acetate	8260B	<5.6	ug/kg			
Vinyl chloride	8260B	<11.3	ug/kg			
Total Xylenes	8260B	<16.9	ug/kg			
BASE NEUTRAL/ACID EXTRACTABLES*				09/17/98	09/17/98	JAF
Acenaphthene	8270C	<375	ug/kg			
Acenaphthylene	8270C	<375	ug/kg			
Acetophenone	8270C	<375	ug/kg			
4-Aminobiphenyl	8270C	<375	ug/kg			
Aniline	8270C	<375	ug/kg			
Anthracene	8270C	409	ug/kg			
Benzidine	8270C	<375	ug/kg			
Benzoic acid	8270C	<375	ug/kg			
Benzo(a)anthracene	8270C	1420	ug/kg			
Benzo(b+k)fluoranthene	8270C	2230	ug/kg			
Benzo(g,h,i)perylene	8270C	1090	ug/kg			
Benzo(a)pyrene	8270C	1250	ug/kg			
Benzyl alcohol	8270C	<752	ug/kg			
bis(2-Chloroethoxy)methane	8270C	<375	ug/kg			
bis(2-Chloroethyl)ether	8270C	<375	ug/kg			
bis(2-Chloroisopropyl)ether	8270C	<375	ug/kg			
bis(2-Ethylhexyl)phthalate	8270C	<375	ug/kg			
4-Bromophenylphenylether	8270C	<375	ug/kg			
Butylbenzylphthalate	8270C	<375	ug/kg			
Chloroaniline	8270C	<375	ug/kg			
4-Chloro-3-methylphenol	8270C	<375	ug/kg			
1-Chloronaphthalene	8270C	<375	ug/kg			
2-Chloronaphthalene	8270C	<375	ug/kg			
2-Chlorophenol	8270C	<375	ug/kg			
4-Chlorophenylphenylether	8270C	<375	ug/kg			
Chrysene	8270C	1310	ug/kg			
m+p-Cresol	8270C	<752	ug/kg			
o-Cresol	8270C	<375	ug/kg			
Dibenzo(a,j)acridine	8270C	<375	ug/kg			
Dibenzo(a,h)anthracene	8270C	<375	ug/kg			
Dibenzofuran	8270C	<375	ug/kg			
Di-N-Butylphthalate	8270C	<375	ug/kg			
1,2-Dichlorobenzene	8270C	<375	ug/kg			
1,3-Dichlorobenzene	8270C	<375	ug/kg			
1,4-Dichlorobenzene	8270C	<375	ug/kg			
3,3'-Dichlorobenzidine	8270C	<375	ug/kg			
2,4-Dichlorophenol	8270C	<375	ug/kg			
2,6-Dichlorophenol	8270C	<375	ug/kg			
Diethylphthalate	8270C	<375	ug/kg			
p-Dimethylaminoazobenzene	8270C	<375	ug/kg			
7,12-Dimethylbenzo(a)anthracene	8270C	<375	ug/kg			
a,a-Dimethylphenethylamine	8270C	<375	ug/kg			
2,4-Dimethylphenol	8270C	<375	ug/kg			
Dimethylphthalate	8270C	<375	ug/kg			
4,6-Dinitro-2-methylphenol	8270C	<375	ug/kg			
2,4-Dinitrophenol	8270C	<375	ug/kg			
2,4-Dinitrotoluene	8270C	<375	ug/kg			
2,6-Dinitrotoluene	8270C	<375	ug/kg			
Di-N-Octylphthalate	8270C	<375	ug/kg			
Diphenylamine	8270C	<375	ug/kg			
Ethyl methanesulfonate	8270C	<375	ug/kg			
Fluoranthene	8270C	2540	ug/kg			
Fluorene	8270C	<375	ug/kg			
Hexachlorobenzene	8270C	<375	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<375	ug/kg			
Hexachlorocyclopentadiene	8270C	<375	ug/kg			
Hexachloroethane	8270C	<375	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	887	ug/kg			
Isophorone	8270C	<375	ug/kg			
3-Methylcholanthrene	8270C	<375	ug/kg			
Methyl methanesulfonate	8270C	<375	ug/kg			
2-Methylnaphthalene	8270C	<375	ug/kg			
Naphthalene	8270C	<375	ug/kg			
1-Naphthylamine	8270C	<375	ug/kg			
2-Naphthylamine	8270C	<375	ug/kg			
2-Nitroaniline	8270C	<375	ug/kg			
3-Nitroaniline	8270C	<375	ug/kg			
4-Nitroaniline	8270C	<375	ug/kg			
Nitrobenzene	8270C	<375	ug/kg			
2-Nitrophenol	8270C	<375	ug/kg			
4-Nitrophenol	8270C	<375	ug/kg			
N-Nitroso-di-butylamine	8270C	<375	ug/kg			
N-Nitrosodimethylamine	8270C	<375	ug/kg			
N-Nitrosodiphenylamine	8270C	<375	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<375	ug/kg			
N-Nitrosopiperidine	8270C	<375	ug/kg			
Pentachlorobenzene	8270C	<375	ug/kg			
Pentachloronitrobenzene	8270C	<375	ug/kg			
Pentachlorophenol	8270C	<375	ug/kg			
Phenacetin	8270C	<375	ug/kg			
Phenanthrene	8270C	1970	ug/kg			
Phenol	8270C	<375	ug/kg			
2-Picoline	8270C	<375	ug/kg			
Pronamide	8270C	<375	ug/kg			
Pyrene	8270C	2170	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<375	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<375	ug/kg			
1,2,4-Trichlorobenzene	8270C	<375	ug/kg			
2,4,5-Trichlorophenol	8270C	<375	ug/kg			
2,4,6-Trichlorophenol	8270C	<375	ug/kg			

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Scientists and Consultants

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146687NR
Description: GP-6 @ 6-8'

Coll. Date: 09/16/98
Coll. Time: 1200

Date Received: 09/17/98
Date Reported: 09/18/98

QA/QC Officer

V.P. Analytical

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	83.2	%		09/17/98	JPS
VOLATILE ORGANICS*					09/18/98	RED
Acetone	8260B	43.1	ug/kg			
Acetonitrile	8260B	<60.1	ug/kg			
Acrolein	8260B	<60.1	ug/kg			
Acrylonitrile	8260B	<60.1	ug/kg			
Benzene	8260B	<6.0	ug/kg			
Bromodichloromethane	8260B	<6.0	ug/kg			
Bromoform	8260B	<6.0	ug/kg			
Bromomethane (Methyl bromide)	8260B	<12.0	ug/kg			
2-Butanone (MEK)	8260B	<6.0	ug/kg			
Carbon disulfide	8260B	<6.0	ug/kg			
Carbon tetrachloride	8260B	<6.0	ug/kg			
Chlorobenzene	8260B	<6.0	ug/kg			
Chloroethane	8260B	<12.0	ug/kg			
2-Chloroethylvinylether	8260B	<6.0	ug/kg			
Chloroform	8260B	<6.0	ug/kg			
Chloromethane (Methyl chloride)	8260B	<12.0	ug/kg			
Dibromochloromethane	8260B	<6.0	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<6.0	ug/kg			
Dibromomethane	8260B	<6.0	ug/kg			
1,2-Dichlorobenzene	8260B	<6.0	ug/kg			
1,3-Dichlorobenzene	8260B	<6.0	ug/kg			
1,4-Dichlorobenzene	8260B	<6.0	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<12.0	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<12.0	ug/kg			
Dichlorodifluoromethane	8260B	<12.0	ug/kg			
1,1-Dichloroethane	8260B	<6.0	ug/kg			
1,2-Dichloroethane	8260B	<6.0	ug/kg			
1,1-Dichloroethene	8260B	<6.0	ug/kg			
cis-1,2-Dichloroethene	8260B	<6.0	ug/kg			
trans-1,2-Dichloroethene	8260B	<6.0	ug/kg			
1,2-Dichloropropane	8260B	<6.0	ug/kg			
cis-1,3-Dichloropropene	8260B	<6.0	ug/kg			
trans-1,3-Dichloropropene	8260B	<6.0	ug/kg			
Diisopropyl ether (IPE)	8260B	<6.0	ug/kg			
Ethyl benzene	8260B	<6.0	ug/kg			
Ethyl methacrylate	8260B	<6.0	ug/kg			
2-Hexanone	8260B	<6.0	ug/kg			
Methylene chloride	8260B	<6.0	ug/kg			
Methyl iodide	8260B	<6.0	ug/kg			
4-Methyl-2-pentanone	8260B	<6.0	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<6.0	ug/kg			
Naphthalene	8260B	<6.0	ug/kg			
Styrene	8260B	<6.0	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
1,1,2,2-Tetrachloroethane	8260B	<6.0	ug/kg			
Tetrachloroethene	8260B	<6.0	ug/kg			
Toluene	8260B	<6.0	ug/kg			
1,1,1-Trichloroethane	8260B	<6.0	ug/kg			
1,1,2-Trichloroethane	8260B	<6.0	ug/kg			
Trichloroethene	8260B	<6.0	ug/kg			
Trichlorofluoromethane	8260B	<12.0	ug/kg			
1,2,3-Trichloropropane	8260B	<6.0	ug/kg			
Vinyl acetate	8260B	<6.0	ug/kg			
Vinyl chloride	8260B	<12.0	ug/kg			
Total Xylenes	8260B	<18.0	ug/kg			
BASE NEUTRAL/ACID EXTRACTABLES*				09/17/98	09/17/98	JAF
Acenaphthene	8270C	<400	ug/kg			
Acenaphthylene	8270C	<400	ug/kg			
Acetophenone	8270C	<400	ug/kg			
4-Aminobiphenyl	8270C	<400	ug/kg			
Aniline	8270C	<400	ug/kg			
Anthracene	8270C	<400	ug/kg			
Benzidine	8270C	<400	ug/kg			
Benzoic acid	8270C	<400	ug/kg			
Benzo(a)anthracene	8270C	<400	ug/kg			
Benzo(b+k)fluoranthene	8270C	<802	ug/kg			
Benzo(g,h,i)perylene	8270C	<400	ug/kg			
Benzo(a)pyrene	8270C	<400	ug/kg			
Benzyl alcohol	8270C	<802	ug/kg			
bis(2-Chloroethoxy)methane	8270C	<400	ug/kg			
bis(2-Chloroethyl)ether	8270C	<400	ug/kg			
bis(2-Chloroisopropyl)ether	8270C	<400	ug/kg			
bis(2-Ethylhexyl)phthalate	8270C	<400	ug/kg			
4-Bromophenylphenylether	8270C	<400	ug/kg			
Butylbenzylphthalate	8270C	<400	ug/kg			
Chloroaniline	8270C	<400	ug/kg			
4-Chloro-3-methylphenol	8270C	<400	ug/kg			
1-Chloronaphthalene	8270C	<400	ug/kg			
2-Chloronaphthalene	8270C	<400	ug/kg			
2-Chlorophenol	8270C	<400	ug/kg			
4-Chlorophenylphenylether	8270C	<400	ug/kg			
Chrysene	8270C	<400	ug/kg			
m+p-Cresol	8270C	<802	ug/kg			
o-Cresol	8270C	<400	ug/kg			
Dibenzo(a,j)acridine	8270C	<400	ug/kg			
Dibenzo(a,h)anthracene	8270C	<400	ug/kg			
Dibenzofuran	8270C	<400	ug/kg			
Di-N-Butylphthalate	8270C	<400	ug/kg			
1,2-Dichlorobenzene	8270C	<400	ug/kg			
1,3-Dichlorobenzene	8270C	<400	ug/kg			
1,4-Dichlorobenzene	8270C	<400	ug/kg			
3,3'-Dichlorobenzidine	8270C	<400	ug/kg			
2,4-Dichlorophenol	8270C	<400	ug/kg			
2,6-Dichlorophenol	8270C	<400	ug/kg			
Diethylphthalate	8270C	<400	ug/kg			
p-Dimethylaminoazobenzene	8270C	<400	ug/kg			
7,12-Dimethylbenzo(a)anthracene	8270C	<400	ug/kg			
a,a-Dimethylphenethylamine	8270C	<400	ug/kg			
2,4-Dimethylphenol	8270C	<400	ug/kg			
Dimethylphthalate	8270C	<400	ug/kg			
4,6-Dinitro-2-methylphenol	8270C	<400	ug/kg			
2,4-Dinitrophenol	8270C	<400	ug/kg			
2,4-Dinitrotoluene	8270C	<400	ug/kg			
2,6-Dinitrotoluene	8270C	<400	ug/kg			
Di-N-Octylphthalate	8270C	<400	ug/kg			
Diphenylamine	8270C	<400	ug/kg			
Ethyl methanesulfonate	8270C	<400	ug/kg			
Fluoranthene	8270C	566	ug/kg			
Fluorene	8270C	<400	ug/kg			
Hexachlorobenzene	8270C	<400	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<400	ug/kg			
Hexachlorocyclopentadiene	8270C	<400	ug/kg			
Hexachloroethane	8270C	<400	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	<400	ug/kg			
Isophorone	8270C	<400	ug/kg			
3-Methylcholanthrene	8270C	<400	ug/kg			
Methyl methanesulfonate	8270C	<400	ug/kg			
2-Methylnaphthalene	8270C	<400	ug/kg			
Naphthalene	8270C	<400	ug/kg			
1-Naphthylamine	8270C	<400	ug/kg			
2-Naphthylamine	8270C	<400	ug/kg			
2-Nitroaniline	8270C	<400	ug/kg			
3-Nitroaniline	8270C	<400	ug/kg			
4-Nitroaniline	8270C	<400	ug/kg			
Nitrobenzene	8270C	<400	ug/kg			
2-Nitrophenol	8270C	<400	ug/kg			
4-Nitrophenol	8270C	<400	ug/kg			
N-Nitroso-di-butylamine	8270C	<400	ug/kg			
N-Nitrosodimethylamine	8270C	<400	ug/kg			
N-Nitrosodiphenylamine	8270C	<400	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<400	ug/kg			
N-Nitrosopiperidine	8270C	<400	ug/kg			
Pentachlorobenzene	8270C	<400	ug/kg			
Pentachloronitrobenzene	8270C	<400	ug/kg			
Pentachlorophenol	8270C	<400	ug/kg			
Phenacetin	8270C	<400	ug/kg			
Phenanthrene	8270C	463	ug/kg			
Phenol	8270C	<400	ug/kg			
2-Picoline	8270C	<400	ug/kg			
Pronamide	8270C	<400	ug/kg			
Pyrene	8270C	559	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<400	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<400	ug/kg			
1,2,4-Trichlorobenzene	8270C	<400	ug/kg			
2,4,5-Trichlorophenol	8270C	<400	ug/kg			
2,4,6-Trichlorophenol	8270C	<400	ug/kg			

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

106 VANTAGE POINT DRIVE
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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146688NR
Description: GP-7 @ 0-2'

Coll. Date: 09/16/98
Coll. Time: 1520

Date Received: 09/17/98
Date Reported: 09/18/98

QA/QC Officer

V.P. Analytical

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	77.4	%		09/17/98	JPS
VOLATILE ORGANICS*					09/18/98	RED
Acetone	8260B	108	ug/kg			
Acetonitrile	8260B	<64.6	ug/kg			
Acrolein	8260B	<64.6	ug/kg			
Acrylonitrile	8260B	<64.6	ug/kg			
Benzene	8260B	<6.5	ug/kg			
Bromodichloromethane	8260B	<6.5	ug/kg			
Bromoform	8260B	<6.5	ug/kg			
Bromomethane (Methyl bromide)	8260B	<12.9	ug/kg			
2-Butanone (MEK)	8260B	13.2	ug/kg			
Carbon disulfide	8260B	<6.5	ug/kg			
Carbon tetrachloride	8260B	<6.5	ug/kg			
Chlorobenzene	8260B	<6.5	ug/kg			
Chloroethane	8260B	<12.9	ug/kg			
2-Chloroethylvinylether	8260B	<6.5	ug/kg			
Chloroform	8260B	<6.5	ug/kg			
Chloromethane (Methyl chloride)	8260B	<12.9	ug/kg			
Dibromochloromethane	8260B	<6.5	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<6.5	ug/kg			
Dibromomethane	8260B	<6.5	ug/kg			
1,2-Dichlorobenzene	8260B	<6.5	ug/kg			
1,3-Dichlorobenzene	8260B	<6.5	ug/kg			
1,4-Dichlorobenzene	8260B	<6.5	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<12.9	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<12.9	ug/kg			
Dichlorodifluoromethane	8260B	<12.9	ug/kg			
1,1-Dichloroethane	8260B	<6.5	ug/kg			
1,2-Dichloroethane	8260B	<6.5	ug/kg			
1,1-Dichloroethene	8260B	<6.5	ug/kg			
cis-1,2-Dichloroethene	8260B	<6.5	ug/kg			
trans-1,2-Dichloroethene	8260B	<6.5	ug/kg			
1,2-Dichloropropane	8260B	<6.5	ug/kg			
cis-1,3-Dichloropropene	8260B	<6.5	ug/kg			
trans-1,3-Dichloropropene	8260B	<6.5	ug/kg			
Diisopropyl ether (IPE)	8260B	<6.5	ug/kg			
Ethyl benzene	8260B	<6.5	ug/kg			
Ethyl methacrylate	8260B	<6.5	ug/kg			
2-Hexanone	8260B	<6.5	ug/kg			
Methylene chloride	8260B	<6.5	ug/kg			
Methyl iodide	8260B	<6.5	ug/kg			
4-Methyl-2-pentanone	8260B	<6.5	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<6.5	ug/kg			
Naphthalene	8260B	27.7	ug/kg			
Styrene	8260B	<6.5	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
1,1,2,2-Tetrachloroethane	8260B	<6.5	ug/kg			
Tetrachloroethene	8260B	<6.5	ug/kg			
Toluene	8260B	<6.5	ug/kg			
1,1,1-Trichloroethane	8260B	<6.5	ug/kg			
1,1,2-Trichloroethane	8260B	<6.5	ug/kg			
Trichloroethene	8260B	<6.5	ug/kg			
Trichlorofluoromethane	8260B	<12.9	ug/kg			
1,2,3-Trichloropropane	8260B	<6.5	ug/kg			
Vinyl acetate	8260B	<6.5	ug/kg			
Vinyl chloride	8260B	<12.9	ug/kg			
Total Xylenes	8260B	<19.4	ug/kg			
BASE NEUTRAL/ACID EXTRACTABLES*				09/17/98	09/17/98	JAF
Acenaphthene	8270C	<430	ug/kg			
Acenaphthylene	8270C	<430	ug/kg			
Acetophenone	8270C	<430	ug/kg			
4-Aminobiphenyl	8270C	<430	ug/kg			
Aniline	8270C	<430	ug/kg			
Anthracene	8270C	479	ug/kg			
Benzidine	8270C	<430	ug/kg			
Benzoic acid	8270C	<430	ug/kg			
Benzo(a)anthracene	8270C	1020	ug/kg			
Benzo(b+k)fluoranthene	8270C	1210	ug/kg			
Benzo(g,h,i)perylene	8270C	695	ug/kg			
Benzo(a)pyrene	8270C	842	ug/kg			
Benzyl alcohol	8270C	<862	ug/kg			
bis(2-Chloroethoxy)methane	8270C	<430	ug/kg			
bis(2-Chloroethyl)ether	8270C	<430	ug/kg			
bis(2-Chloroisopropyl)ether	8270C	<430	ug/kg			
bis(2-Ethylhexyl)phthalate	8270C	<430	ug/kg			
4-Bromophenylphenylether	8270C	<430	ug/kg			
Butylbenzylphthalate	8270C	<430	ug/kg			
Chloroaniline	8270C	<430	ug/kg			
4-Chloro-3-methylphenol	8270C	<430	ug/kg			
1-Chloronaphthalene	8270C	<430	ug/kg			
2-Chloronaphthalene	8270C	<430	ug/kg			
2-Chlorophenol	8270C	<430	ug/kg			
4-Chlorophenylphenylether	8270C	<430	ug/kg			
Chrysene	8270C	1060	ug/kg			
m+p-Cresol	8270C	<862	ug/kg			
o-Cresol	8270C	<430	ug/kg			
Dibenzo(a,j)acridine	8270C	<430	ug/kg			
Dibenzo(a,h)anthracene	8270C	<430	ug/kg			
Dibenzofuran	8270C	<430	ug/kg			
Di-N-Butylphthalate	8270C	<430	ug/kg			
1,2-Dichlorobenzene	8270C	<430	ug/kg			
1,3-Dichlorobenzene	8270C	<430	ug/kg			
1,4-Dichlorobenzene	8270C	<430	ug/kg			
3,3'-Dichlorobenzidine	8270C	<430	ug/kg			
2,4-Dichlorophenol	8270C	<430	ug/kg			
2,6-Dichlorophenol	8270C	<430	ug/kg			
Diethylphthalate	8270C	<430	ug/kg			
p-Dimethylaminoazobenzene	8270C	<430	ug/kg			
7,12-Dimethylbenzo(a)anthracene	8270C	<430	ug/kg			
a,a-Dimethylphenethylamine	8270C	<430	ug/kg			
2,4-Dimethylphenol	8270C	<430	ug/kg			
Dimethylphthalate	8270C	<430	ug/kg			
4,6-Dinitro-2-methylphenol	8270C	<430	ug/kg			
2,4-Dinitrophenol	8270C	<430	ug/kg			
2,4-Dinitrotoluene	8270C	<430	ug/kg			
2,6-Dinitrotoluene	8270C	<430	ug/kg			
Di-N-Octylphthalate	8270C	<430	ug/kg			
Diphenylamine	8270C	<430	ug/kg			
Ethyl methanesulfonate	8270C	<430	ug/kg			
Fluoranthene	8270C	1840	ug/kg			
Fluorene	8270C	<430	ug/kg			
Hexachlorobenzene	8270C	<430	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<430	ug/kg			
Hexachlorocyclopentadiene	8270C	<430	ug/kg			
Hexachloroethane	8270C	<430	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	524	ug/kg			
Isophorone	8270C	<430	ug/kg			
3-Methylcholanthrene	8270C	<430	ug/kg			
Methyl methanesulfonate	8270C	<430	ug/kg			
2-Methylnaphthalene	8270C	<430	ug/kg			
Naphthalene	8270C	<430	ug/kg			
1-Naphthylamine	8270C	<430	ug/kg			
2-Naphthylamine	8270C	<430	ug/kg			
2-Nitroaniline	8270C	<430	ug/kg			
3-Nitroaniline	8270C	<430	ug/kg			
4-Nitroaniline	8270C	<430	ug/kg			
Nitrobenzene	8270C	<430	ug/kg			
2-Nitrophenol	8270C	<430	ug/kg			
4-Nitrophenol	8270C	<430	ug/kg			
N-Nitroso-di-butylamine	8270C	<430	ug/kg			
N-Nitrosodimethylamine	8270C	<430	ug/kg			
N-Nitrosodiphenylamine	8270C	<430	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<430	ug/kg			
N-Nitrosopiperidine	8270C	<430	ug/kg			
Pentachlorobenzene	8270C	<430	ug/kg			
Pentachloronitrobenzene	8270C	<430	ug/kg			
Pentachlorophenol	8270C	<430	ug/kg			
Phenacetin	8270C	<430	ug/kg			
Phenanthrene	8270C	1970	ug/kg			
Phenol	8270C	<430	ug/kg			
2-Picoline	8270C	<430	ug/kg			
Pronamide	8270C	<430	ug/kg			
Pyrene	8270C	2400	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<430	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<430	ug/kg			
1,2,4-Trichlorobenzene	8270C	<430	ug/kg			
2,4,5-Trichlorophenol	8270C	<430	ug/kg			
2,4,6-Trichlorophenol	8270C	<430	ug/kg			

SHEALY ENVIRONMENTAL SERVICES, INC.

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146689NR
Description: GP-2 @ 4-6'

Coll. Date: 09/16/98
Coll. Time: 1600

Date Received: 09/17/98
Date Reported: 09/18/98

QA/QC Officer _____

V.P. Analytical _____

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	76.1	%		09/17/98	JPS
VOLATILE ORGANICS*					09/18/98	RED
Acetone	8260B	38.3	ug/kg			
Acetonitrile	8260B	<65.7	ug/kg			
Acrolein	8260B	<65.7	ug/kg			
Acrylonitrile	8260B	<65.7	ug/kg			
Benzene	8260B	<6.6	ug/kg			
Bromodichloromethane	8260B	<6.6	ug/kg			
Bromoform	8260B	<6.6	ug/kg			
Bromomethane (Methyl bromide)	8260B	<13.1	ug/kg			
2-Butanone (MEK)	8260B	<6.6	ug/kg			
Carbon disulfide	8260B	<6.6	ug/kg			
Carbon tetrachloride	8260B	<6.6	ug/kg			
Chlorobenzene	8260B	<6.6	ug/kg			
Chloroethane	8260B	<13.1	ug/kg			
2-Chloroethylvinylether	8260B	<6.6	ug/kg			
Chloroform	8260B	<6.6	ug/kg			
Chloromethane (Methyl chloride)	8260B	<13.1	ug/kg			
Dibromochloromethane	8260B	<6.6	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<6.6	ug/kg			
Dibromomethane	8260B	<6.6	ug/kg			
1,2-Dichlorobenzene	8260B	<6.6	ug/kg			
1,3-Dichlorobenzene	8260B	<6.6	ug/kg			
1,4-Dichlorobenzene	8260B	<6.6	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<13.1	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<13.1	ug/kg			
Dichlorodifluoromethane	8260B	<13.1	ug/kg			
1,1-Dichloroethane	8260B	<6.6	ug/kg			
1,2-Dichloroethane	8260B	<6.6	ug/kg			
1,1-Dichloroethene	8260B	<6.6	ug/kg			
cis-1,2-Dichloroethene	8260B	<6.6	ug/kg			
trans-1,2-Dichloroethene	8260B	<6.6	ug/kg			
1,2-Dichloropropane	8260B	<6.6	ug/kg			
cis-1,3-Dichloropropene	8260B	<6.6	ug/kg			
trans-1,3-Dichloropropene	8260B	<6.6	ug/kg			
Diisopropyl ether (IPE)	8260B	<6.6	ug/kg			
Ethyl benzene	8260B	<6.6	ug/kg			
Ethyl methacrylate	8260B	<6.6	ug/kg			
2-Hexanone	8260B	<6.6	ug/kg			
Methylene chloride	8260B	<6.6	ug/kg			
Methyl iodide	8260B	<6.6	ug/kg			
4-Methyl-2-pentanone	8260B	<6.6	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<6.6	ug/kg			
Naphthalene	8260B	<6.6	ug/kg			
Styrene	8260B	<6.6	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
1,1,2,2-Tetrachloroethane	8260B	<6.6	ug/kg			
Tetrachloroethene	8260B	<6.6	ug/kg			
Toluene	8260B	<6.6	ug/kg			
1,1,1-Trichloroethane	8260B	<6.6	ug/kg			
1,1,2-Trichloroethane	8260B	<6.6	ug/kg			
Trichloroethene	8260B	<6.6	ug/kg			
Trichlorofluoromethane	8260B	<13.1	ug/kg			
1,2,3-Trichloropropane	8260B	<6.6	ug/kg			
Vinyl acetate	8260B	<6.6	ug/kg			
Vinyl chloride	8260B	<13.1	ug/kg			
Total Xylenes	8260B	<19.7	ug/kg			
BASE NEUTRAL/ACID EXTRACTABLES*				09/17/98	09/17/98	JAF
Acenaphthene	8270C	<438	ug/kg			
Acenaphthylene	8270C	<438	ug/kg			
Acetophenone	8270C	<438	ug/kg			
4-Aminobiphenyl	8270C	<438	ug/kg			
Aniline	8270C	<438	ug/kg			
Anthracene	8270C	<438	ug/kg			
Benzidine	8270C	<438	ug/kg			
Benzoic acid	8270C	<438	ug/kg			
Benzo(a)anthracene	8270C	<438	ug/kg			
Benzo(b+k)fluoranthene	8270C	<876	ug/kg			
Benzo(g,h,i)perylene	8270C	<438	ug/kg			
Benzo(a)pyrene	8270C	<438	ug/kg			
Benzyl alcohol	8270C	<876	ug/kg			
bis(2-Chloroethoxy)methane	8270C	<438	ug/kg			
bis(2-Chloroethyl)ether	8270C	<438	ug/kg			
bis(2-Chloroisopropyl)ether	8270C	<438	ug/kg			
bis(2-Ethylhexyl)phthalate	8270C	<438	ug/kg			
4-Bromophenylphenylether	8270C	<438	ug/kg			
Butylbenzylphthalate	8270C	<438	ug/kg			
Chloroaniline	8270C	<438	ug/kg			
4-Chloro-3-methylphenol	8270C	<438	ug/kg			
1-Chloronaphthalene	8270C	<438	ug/kg			
2-Chloronaphthalene	8270C	<438	ug/kg			
2-Chlorophenol	8270C	<438	ug/kg			
4-Chlorophenylphenylether	8270C	<438	ug/kg			
Chrysene	8270C	<438	ug/kg			
m+p-Cresol	8270C	<876	ug/kg			
o-Cresol	8270C	<438	ug/kg			
Dibenzo(a,j)acridine	8270C	<438	ug/kg			
Dibenzo(a,h)anthracene	8270C	<438	ug/kg			
Dibenzofuran	8270C	<438	ug/kg			
Di-N-Butylphthalate	8270C	<438	ug/kg			
1,2-Dichlorobenzene	8270C	<438	ug/kg			
1,3-Dichlorobenzene	8270C	<438	ug/kg			
1,4-Dichlorobenzene	8270C	<438	ug/kg			
3,3'-Dichlorobenzidine	8270C	<438	ug/kg			
2,4-Dichlorophenol	8270C	<438	ug/kg			
2,6-Dichlorophenol	8270C	<438	ug/kg			
Diethylphthalate	8270C	<438	ug/kg			
p-Dimethylaminoazobenzene	8270C	<438	ug/kg			
7,12-Dimethylbenzo(a)anthracene	8270C	<438	ug/kg			
a,a-Dimethylphenethylamine	8270C	<438	ug/kg			
2,4-Dimethylphenol	8270C	<438	ug/kg			
Dimethylphthalate	8270C	<438	ug/kg			
4,6-Dinitro-2-methylphenol	8270C	<438	ug/kg			
2,4-Dinitrophenol	8270C	<438	ug/kg			
2,4-Dinitrotoluene	8270C	<438	ug/kg			
2,6-Dinitrotoluene	8270C	<438	ug/kg			
Di-N-Octylphthalate	8270C	<438	ug/kg			
Diphenylamine	8270C	<438	ug/kg			
Ethyl methanesulfonate	8270C	<438	ug/kg			
Fluoranthene	8270C	<438	ug/kg			
Fluorene	8270C	<438	ug/kg			
Hexachlorobenzene	8270C	<438	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<438	ug/kg			
Hexachlorocyclopentadiene	8270C	<438	ug/kg			
Hexachloroethane	8270C	<438	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	<438	ug/kg			
Isophorone	8270C	<438	ug/kg			
3-Methylcholanthrene	8270C	<438	ug/kg			
Methyl methanesulfonate	8270C	<438	ug/kg			
2-Methylnaphthalene	8270C	<438	ug/kg			
Naphthalene	8270C	<438	ug/kg			
1-Naphthylamine	8270C	<438	ug/kg			
2-Naphthylamine	8270C	<438	ug/kg			
2-Nitroaniline	8270C	<438	ug/kg			
3-Nitroaniline	8270C	<438	ug/kg			
4-Nitroaniline	8270C	<438	ug/kg			
Nitrobenzene	8270C	<438	ug/kg			
2-Nitrophenol	8270C	<438	ug/kg			
4-Nitrophenol	8270C	<438	ug/kg			
N-Nitroso-di-butylamine	8270C	<438	ug/kg			
N-Nitrosodimethylamine	8270C	<438	ug/kg			
N-Nitrosodiphenylamine	8270C	<438	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<438	ug/kg			
N-Nitrosopiperidine	8270C	<438	ug/kg			
Pentachlorobenzene	8270C	<438	ug/kg			
Pentachloronitrobenzene	8270C	<438	ug/kg			
Pentachlorophenol	8270C	<438	ug/kg			
Phenacetin	8270C	<438	ug/kg			
Phenanthrene	8270C	<438	ug/kg			
Phenol	8270C	<438	ug/kg			
2-Picoline	8270C	<438	ug/kg			
Pronamide	8270C	<438	ug/kg			
Pyrene	8270C	<438	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<438	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<438	ug/kg			
1,2,4-Trichlorobenzene	8270C	<438	ug/kg			
2,4,5-Trichlorophenol	8270C	<438	ug/kg			
2,4,6-Trichlorophenol	8270C	<438	ug/kg			

USE BALL POINT PEN ONLY, PRESS HARD

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

CHAIN OF CUSTODY # P 2 of 2

NPDES # 1040-98-11a

County

Receiving Stream

Outfall No.

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

Client Name SYME, Inc

Reporting Address PO Box 7665
Charlotte NC 28241

Attention Al Quarles

Telephone No. 704-523-4776 P.O. No. 21554

Sample ID (Location)	Yr. 1998 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	8260	8270 BN	1,1,1	REMARKS	SESI LAB I.D.
GP-5@4-12'	Start 9/16	1020		X		X	2																	X	X	X		146685 NR
	Finish																											
GP-4@2-4'	Start 9/16	1115		X		X	2																	X	X	X		146686 NR
	Finish 9/16	~~1215~~																										
GP-6@6-8'	Start 9/16	~~1200~~		X		X	2																	X	X	X		146687 NR
	Finish	1700																										
GP-7@0-2'	Start 9/16	1570		X		X	2																	X	X	X		146688 NR
	Finish																											
GP-2@4-6'	Start 9/16	1600		X		X	2																	X	X	X		146689 NR
	Finish																											
	Start																									24hr TAT		
	Finish																											
	Start																											
	Finish																											
	Start																											
	Finish																											

←PRESERVATION (CODE)

CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = _____

LAB USE ONLY

Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other:_____

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample
Print Name: Kevin Smith	9-16 1610			
Signature:				
Relinquished by (Sig.)	Date/Time 9/17/98 930am	Received by (Sig.)	Date/Time 9/17/98 9:40	
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time 9/17/98 11:30	

Custody Seal Intact (Circle)
YES NO NONE

Receipt TRC _____ mg/l

Receipt pH _____ su

Receipt Temp. 20 °C

Received on Ice (Circle)
YES NO ICE PACK

AMERICAN SYSTEMS, COLUMBIA, S.C.

White Copy: Sampler Yellow Copy: Shealy Pink Copy: Report

FAXED

SHEALY ENVIRONMENTAL SERVICES, INC.
FACSIMILE COVER SHEET

106 VANTAGE POINT DRIVE
CAYCE, SC 29033
PHONE: (803) 791-9700
FAX: (803) 791-9111

11 Winchester Court, Bldg-B
Mauldin, SC 29662
Ph: (864) 627-0057
Fax: (864) 627-0570

106 Vantage Point Drive
Cayce, SC 29033
Ph: (803) 791-9700
Fax: (803) 791-9111

228 Westinghouse Boulevard
Suite 101
Charlotte, NC 28273
Ph: (704) 583-0990
Fax: (704) 583-0961

DATE: 9-18-98

TO: Al Quarles

COMPANY/LOCATION: 704-525-3953)

FAX NUMBER: S+ME

NUMBER OF PAGES INCLUDING COVER SHEET: 17

FROM: Elaine Pond

COMMENTS:

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

106 VANTAGE POINT DRIVE
CAYCE, SOUTH CAROLINA 29033

(803) 791-9700
FAX (803) 791-9111
www.shealyenvironmental.com

CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146786NR
Description: GP-10 @ 8-10'

Coll. Date: 09/17/98
Coll. Time: 1030

Date Received: 09/18/98
Date Reported: 09/18/98

QA/QC Officer

V.P. Analytical

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	67.5	%		09/18/98	MAW
VOLATILE ORGANICS*					09/18/98	RED
Acetone	8260B	<29.6	ug/kg			
Acetonitrile	8260B	<74.1	ug/kg			
Acrolein	8260B	<74.1	ug/kg			
Acrylonitrile	8260B	<74.1	ug/kg			
Benzene	8260B	<7.4	ug/kg			
Bromodichloromethane	8260B	<7.4	ug/kg			
Bromoform	8260B	<7.4	ug/kg			
Bromomethane (Methyl bromide)	8260B	<14.8	ug/kg			
2-Butanone (MEK)	8260B	<7.4	ug/kg			
Carbon disulfide	8260B	22.1	ug/kg			
Carbon tetrachloride	8260B	<7.4	ug/kg			
Chlorobenzene	8260B	<7.4	ug/kg			
Chloroethane	8260B	<14.8	ug/kg			
2-Chloroethylvinylether	8260B	<7.4	ug/kg			
Chloroform	8260B	<7.4	ug/kg			
Chloromethane (Methyl chloride)	8260B	<14.8	ug/kg			
Dibromochloromethane	8260B	<7.4	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<7.4	ug/kg			
Dibromomethane	8260B	<7.4	ug/kg			
1,2-Dichlorobenzene	8260B	<7.4	ug/kg			
1,3-Dichlorobenzene	8260B	<7.4	ug/kg			
1,4-Dichlorobenzene	8260B	<7.4	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<14.8	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<14.8	ug/kg			
Dichlorodifluoromethane	8260B	<14.8	ug/kg			
1,1-Dichloroethane	8260B	<7.4	ug/kg			
1,2-Dichloroethane	8260B	<7.4	ug/kg			
1,1-Dichloroethene	8260B	<7.4	ug/kg			
cis-1,2-Dichloroethene	8260B	<7.4	ug/kg			
trans-1,2-Dichloroethene	8260B	<7.4	ug/kg			
1,2-Dichloropropane	8260B	<7.4	ug/kg			
cis-1,3-Dichloropropene	8260B	<7.4	ug/kg			
trans-1,3-Dichloropropene	8260B	<7.4	ug/kg			
Diisopropyl ether (IPE)	8260B	<7.4	ug/kg			
Ethyl benzene	8260B	<7.4	ug/kg			
Ethyl methacrylate	8260B	<7.4	ug/kg			
2-Hexanone	8260B	<7.4	ug/kg			
Methylene chloride	8260B	<7.4	ug/kg			
Methyl iodide	8260B	<7.4	ug/kg			
4-Methyl-2-pentanone	8260B	<7.4	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<7.4	ug/kg			
Naphthalene	8260B	<7.4	ug/kg			
Styrene	8260B	<7.4	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
1,1,2,2-Tetrachloroethane	8260B	<7.4	ug/kg			
Tetrachloroethene	8260B	<7.4	ug/kg			
Toluene	8260B	<7.4	ug/kg			
1,1,1-Trichloroethane	8260B	<7.4	ug/kg			
1,1,2-Trichloroethane	8260B	<7.4	ug/kg			
Trichloroethene	8260B	<7.4	ug/kg			
Trichlorofluoromethane	8260B	<14.8	ug/kg			
1,2,3-Trichloropropane	8260B	<7.4	ug/kg			
Vinyl acetate	8260B	<7.4	ug/kg			
Vinyl chloride	8260B	<14.8	ug/kg			
Total Xylenes	8260B	<22.2	ug/kg			
BASE NEUTRAL/ACID EXTRACTABLES*				09/17/98	09/18/98	JAF
Acenaphthene	8270C	<385	ug/kg			
Acenaphthylene	8270C	<385	ug/kg			
Acetophenone	8270C	<385	ug/kg			
4-Aminobiphenyl	8270C	<385	ug/kg			
Aniline	8270C	<385	ug/kg			
Anthracene	8270C	<385	ug/kg			
Benzidine	8270C	<385	ug/kg			
Benzoic acid	8270C	<385	ug/kg			
Benzo(a)anthracene	8270C	<385	ug/kg			
Benzo(b+k)fluoranthene	8270C	<771	ug/kg			
Benzo(g,h,i)perylene	8270C	<385	ug/kg			
Benzo(a)pyrene	8270C	<385	ug/kg			
Benzyl alcohol	8270C	<771	ug/kg			
bis(2-Chloroethoxy)methane	8270C	<385	ug/kg			
bis(2-Chloroethyl)ether	8270C	<385	ug/kg			
bis(2-Chloroisopropyl)ether	8270C	<385	ug/kg			
bis(2-Ethylhexyl)phthalate	8270C	<385	ug/kg			
4-Bromophenylphenylether	8270C	<385	ug/kg			
Butylbenzylphthalate	8270C	<385	ug/kg			
Chloroaniline	8270C	<385	ug/kg			
4-Chloro-3-methylphenol	8270C	<385	ug/kg			
1-Chloronaphthalene	8270C	<385	ug/kg			
2-Chloronaphthalene	8270C	<385	ug/kg			
2-Chlorophenol	8270C	<385	ug/kg			
4-Chlorophenylphenylether	8270C	<385	ug/kg			
Chrysene	8270C	<385	ug/kg			
m+p-Cresol	8270C	<771	ug/kg			
o-Cresol	8270C	<385	ug/kg			
Dibenzo(a,j)acridine	8270C	<385	ug/kg			
Dibenzo(a,h)anthracene	8270C	<385	ug/kg			
Dibenzofuran	8270C	<385	ug/kg			
Di-N-Butylphthalate	8270C	<385	ug/kg			
1,2-Dichlorobenzene	8270C	<385	ug/kg			
1,3-Dichlorobenzene	8270C	<385	ug/kg			
1,4-Dichlorobenzene	8270C	<385	ug/kg			
3,3'-Dichlorobenzidine	8270C	<385	ug/kg			
2,4-Dichlorophenol	8270C	<385	ug/kg			
2,6-Dichlorophenol	8270C	<385	ug/kg			
Diethylphthalate	8270C	<385	ug/kg			
p-Dimethylaminoazobenzene	8270C	<385	ug/kg			
7,12-Dimethylbenzo(a)anthracene	8270C	<385	ug/kg			
a,a-Dimethylphenethylamine	8270C	<385	ug/kg			
2,4-Dimethylphenol	8270C	<385	ug/kg			
Dimethylphthalate	8270C	<385	ug/kg			
4,6-Dinitro-2-methylphenol	8270C	<385	ug/kg			
2,4-Dinitrophenol	8270C	<385	ug/kg			
2,4-Dinitrotoluene	8270C	<385	ug/kg			
2,6-Dinitrotoluene	8270C	<385	ug/kg			
Di-N-Octylphthalate	8270C	<385	ug/kg			
Diphenylamine	8270C	<385	ug/kg			
Ethyl methanesulfonate	8270C	<385	ug/kg			
Fluoranthene	8270C	<385	ug/kg			
Fluorene	8270C	<385	ug/kg			
Hexachlorobenzene	8270C	<385	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<385	ug/kg			
Hexachlorocyclopentadiene	8270C	<385	ug/kg			
Hexachloroethane	8270C	<385	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	<385	ug/kg			
Isophorone	8270C	<385	ug/kg			
3-Methylcholanthrene	8270C	<385	ug/kg			
Methyl methanesulfonate	8270C	<385	ug/kg			
2-Methylnaphthalene	8270C	<385	ug/kg			
Naphthalene	8270C	<385	ug/kg			
1-Naphthylamine	8270C	<385	ug/kg			
2-Naphthylamine	8270C	<385	ug/kg			
2-Nitroaniline	8270C	<385	ug/kg			
3-Nitroaniline	8270C	<385	ug/kg			
4-Nitroaniline	8270C	<385	ug/kg			
Nitrobenzene	8270C	<385	ug/kg			
2-Nitrophenol	8270C	<385	ug/kg			
4-Nitrophenol	8270C	<385	ug/kg			
N-Nitroso-di-butylamine	8270C	<385	ug/kg			
N-Nitrosodimethylamine	8270C	<385	ug/kg			
N-Nitrosodiphenylamine	8270C	<385	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<385	ug/kg			
N-Nitrosopiperidine	8270C	<385	ug/kg			
Pentachlorobenzene	8270C	<385	ug/kg			
Pentachloronitrobenzene	8270C	<385	ug/kg			
Pentachlorophenol	8270C	<385	ug/kg			
Phenacetin	8270C	<385	ug/kg			
Phenanthrene	8270C	<385	ug/kg			
Phenol	8270C	<385	ug/kg			
2-Picoline	8270C	<385	ug/kg			
Pronamide	8270C	<385	ug/kg			
Pyrene	8270C	<385	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<385	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<385	ug/kg			
1,2,4-Trichlorobenzene	8270C	<385	ug/kg			
2,4,5-Trichlorophenol	8270C	<385	ug/kg			
2,4,6-Trichlorophenol	8270C	<385	ug/kg			

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

106 VANTAGE POINT DRIVE
CAYCE, SOUTH CAROLINA 29033

(803) 791-9700
FAX (803) 791-9111
www.shealyenvironmental.com

CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146787NR
Description: GP-9 @ 8-10'

Coll. Date: 09/17/98
Coll. Time: 1110

Date Received: 09/18/98
Date Reported: 09/18/98

QA/QC Officer

V.P. Analytical

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	86.5	%		09/18/98	MAW
VOLATILE ORGANICS*					09/18/98	RED
Acetone	8260B	<23.1	ug/kg			
Acetonitrile	8260B	<57.8	ug/kg			
Acrolein	8260B	<57.8	ug/kg			
Acrylonitrile	8260B	<57.8	ug/kg			
Benzene	8260B	<5.8	ug/kg			
Bromodichloromethane	8260B	<5.8	ug/kg			
Bromoform	8260B	<5.8	ug/kg			
Bromomethane (Methyl bromide)	8260B	<11.6	ug/kg			
2-Butanone (MEK)	8260B	<5.8	ug/kg			
Carbon disulfide	8260B	<5.8	ug/kg			
Carbon tetrachloride	8260B	<5.8	ug/kg			
Chlorobenzene	8260B	<5.8	ug/kg			
Chloroethane	8260B	<11.6	ug/kg			
2-Chloroethylvinylether	8260B	<5.8	ug/kg			
Chloroform	8260B	<5.8	ug/kg			
Chloromethane (Methyl chloride)	8260B	<11.6	ug/kg			
Dibromochloromethane	8260B	<5.8	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<5.8	ug/kg			
Dibromomethane	8260B	<5.8	ug/kg			
1,2-Dichlorobenzene	8260B	<5.8	ug/kg			
1,3-Dichlorobenzene	8260B	<5.8	ug/kg			
1,4-Dichlorobenzene	8260B	<5.8	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<11.6	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<11.6	ug/kg			
Dichlorodifluoromethane	8260B	<11.6	ug/kg			
1,1-Dichloroethane	8260B	<5.8	ug/kg			
1,2-Dichloroethane	8260B	<5.8	ug/kg			
1,1-Dichloroethene	8260B	<5.8	ug/kg			
cis-1,2-Dichloroethene	8260B	<5.8	ug/kg			
trans-1,2-Dichloroethene	8260B	<5.8	ug/kg			
1,2-Dichloropropane	8260B	<5.8	ug/kg			
cis-1,3-Dichloropropene	8260B	<5.8	ug/kg			
trans-1,3-Dichloropropene	8260B	<5.8	ug/kg			
Diisopropyl ether (IPE)	8260B	<5.8	ug/kg			
Ethyl benzene	8260B	<5.8	ug/kg			
Ethyl methacrylate	8260B	<5.8	ug/kg			
2-Hexanone	8260B	<5.8	ug/kg			
Methylene chloride	8260B	<5.8	ug/kg			
Methyl iodide	8260B	<5.8	ug/kg			
4-Methyl-2-pentanone	8260B	<5.8	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<5.8	ug/kg			
Naphthalene	8260B	<5.8	ug/kg			
Styrene	8260B	<5.8	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
1,1,2,2-Tetrachloroethane	8260B	<5.8	ug/kg			
Tetrachloroethene	8260B	<5.8	ug/kg			
Toluene	8260B	<5.8	ug/kg			
1,1,1-Trichloroethane	8260B	<5.8	ug/kg			
1,1,2-Trichloroethane	8260B	<5.8	ug/kg			
Trichloroethene	8260B	<5.8	ug/kg			
Trichlorofluoromethane	8260B	<11.6	ug/kg			
1,2,3-Trichloropropane	8260B	<5.8	ug/kg			
Vinyl acetate	8260B	<5.8	ug/kg			
Vinyl chloride	8260B	<11.6	ug/kg			
Total Xylenes	8260B	<17.3	ug/kg			
BASE NEUTRAL/ACID EXTRACTABLES*				09/17/98	09/18/98	JAF
Acenaphthene	8270C	<390	ug/kg			
Acenaphthylene	8270C	<390	ug/kg			
Acetophenone	8270C	<390	ug/kg			
4-Aminobiphenyl	8270C	<390	ug/kg			
Aniline	8270C	<390	ug/kg			
Anthracene	8270C	<390	ug/kg			
Benzidine	8270C	<390	ug/kg			
Benzoic acid	8270C	<390	ug/kg			
Benzo(a)anthracene	8270C	<390	ug/kg			
Benzo(b+k)fluoranthene	8270C	<781	ug/kg			
Benzo(g,h,i)perylene	8270C	<390	ug/kg			
Benzo(a)pyrene	8270C	<390	ug/kg			
Benzyl alcohol	8270C	<781	ug/kg			
bis(2-Chloroethoxy)methane	8270C	<390	ug/kg			
bis(2-Chloroethyl)ether	8270C	<390	ug/kg			
bis(2-Chloroisopropyl)ether	8270C	<390	ug/kg			
bis(2-Ethylhexyl)phthalate	8270C	<390	ug/kg			
4-Bromophenylphenylether	8270C	<390	ug/kg			
Butylbenzylphthalate	8270C	<390	ug/kg			
Chloroaniline	8270C	<390	ug/kg			
4-Chloro-3-methylphenol	8270C	<390	ug/kg			
1-Chloronaphthalene	8270C	<390	ug/kg			
2-Chloronaphthalene	8270C	<390	ug/kg			
2-Chlorophenol	8270C	<390	ug/kg			
4-Chlorophenylphenylether	8270C	<390	ug/kg			
Chrysene	8270C	<390	ug/kg			
m+p-Cresol	8270C	<781	ug/kg			
o-Cresol	8270C	<390	ug/kg			
Dibenzo(a,j)acridine	8270C	<390	ug/kg			
Dibenzo(a,h)anthracene	8270C	<390	ug/kg			
Dibenzofuran	8270C	<390	ug/kg			
Di-N-Butylphthalate	8270C	<390	ug/kg			
1,2-Dichlorobenzene	8270C	<390	ug/kg			
1,3-Dichlorobenzene	8270C	<390	ug/kg			
1,4-Dichlorobenzene	8270C	<390	ug/kg			
3,3'-Dichlorobenzidine	8270C	<390	ug/kg			
2,4-Dichlorophenol	8270C	<390	ug/kg			
2,6-Dichlorophenol	8270C	<390	ug/kg			
Diethylphthalate	8270C	<390	ug/kg			
p-Dimethylaminoazobenzene	8270C	<390	ug/kg			
7,12-Dimethylbenzo(a)anthracene	8270C	<390	ug/kg			
a,a-Dimethylphenethylamine	8270C	<390	ug/kg			
2,4-Dimethylphenol	8270C	<390	ug/kg			
Dimethylphthalate	8270C	<390	ug/kg			
4,6-Dinitro-2-methylphenol	8270C	<390	ug/kg			
2,4-Dinitrophenol	8270C	<390	ug/kg			
2,4-Dinitrotoluene	8270C	<390	ug/kg			
2,6-Dinitrotoluene	8270C	<390	ug/kg			
Di-N-Octylphthalate	8270C	<390	ug/kg			
Diphenylamine	8270C	<390	ug/kg			
Ethyl methanesulfonate	8270C	<390	ug/kg			
Fluoranthene	8270C	<390	ug/kg			
Fluorene	8270C	<390	ug/kg			
Hexachlorobenzene	8270C	<390	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<390	ug/kg			
Hexachlorocyclopentadiene	8270C	<390	ug/kg			
Hexachloroethane	8270C	<390	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	<390	ug/kg			
Isophorone	8270C	<390	ug/kg			
3-Methylcholanthrene	8270C	<390	ug/kg			
Methyl methanesulfonate	8270C	<390	ug/kg			
2-Methylnaphthalene	8270C	<390	ug/kg			
Naphthalene	8270C	<390	ug/kg			
1-Naphthylamine	8270C	<390	ug/kg			
2-Naphthylamine	8270C	<390	ug/kg			
2-Nitroaniline	8270C	<390	ug/kg			
3-Nitroaniline	8270C	<390	ug/kg			
4-Nitroaniline	8270C	<390	ug/kg			
Nitrobenzene	8270C	<390	ug/kg			
2-Nitrophenol	8270C	<390	ug/kg			
4-Nitrophenol	8270C	<390	ug/kg			
N-Nitroso-di-butylamine	8270C	<390	ug/kg			
N-Nitrosodimethylamine	8270C	<390	ug/kg			
N-Nitrosodiphenylamine	8270C	<390	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<390	ug/kg			
N-Nitrosopiperidine	8270C	<390	ug/kg			
Pentachlorobenzene	8270C	<390	ug/kg			
Pentachloronitrobenzene	8270C	<390	ug/kg			
Pentachlorophenol	8270C	<390	ug/kg			
Phenacetin	8270C	<390	ug/kg			
Phenanthrene	8270C	<390	ug/kg			
Phenol	8270C	<390	ug/kg			
2-Picoline	8270C	<390	ug/kg			
Pronamide	8270C	<390	ug/kg			
Pyrene	8270C	<390	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<390	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<390	ug/kg			
1,2,4-Trichlorobenzene	8270C	<390	ug/kg			
2,4,5-Trichlorophenol	8270C	<390	ug/kg			
2,4,6-Trichlorophenol	8270C	<390	ug/kg			

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

106 VANTAGE POINT DRIVE
CAYCE, SOUTH CAROLINA 29033

(803) 791-9700
FAX (803) 791-9111
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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146788NR
Description: GP-11 @ 6-8'

Coll. Date: 09/17/98
Coll. Time: 1200

Date Received: 09/18/98
Date Reported: 09/18/98

QA/QC Officer _____

V.P. Analytical _____

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	85.4	%		09/18/98	MAW
VOLATILE ORGANICS*					09/18/98	RED
Acetone	8260B	<23.4	ug/kg			
Acetonitrile	8260B	<58.5	ug/kg			
Acrolein	8260B	<58.5	ug/kg			
Acrylonitrile	8260B	<58.5	ug/kg			
Benzene	8260B	<5.8	ug/kg			
Bromodichloromethane	8260B	<5.8	ug/kg			
Bromoform	8260B	<5.8	ug/kg			
Bromomethane (Methyl bromide)	8260B	<11.7	ug/kg			
2-Butanone (MEK)	8260B	<5.8	ug/kg			
Carbon disulfide	8260B	<5.8	ug/kg			
Carbon tetrachloride	8260B	<5.8	ug/kg			
Chlorobenzene	8260B	<5.8	ug/kg			
Chloroethane	8260B	<11.7	ug/kg			
2-Chloroethylvinylether	8260B	<5.8	ug/kg			
Chloroform	8260B	<5.8	ug/kg			
Chloromethane (Methyl chloride)	8260B	<11.7	ug/kg			
Dibromochloromethane	8260B	<5.8	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<5.8	ug/kg			
Dibromomethane	8260B	<5.8	ug/kg			
1,2-Dichlorobenzene	8260B	<5.8	ug/kg			
1,3-Dichlorobenzene	8260B	<5.8	ug/kg			
1,4-Dichlorobenzene	8260B	<5.8	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<11.7	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<11.7	ug/kg			
Dichlorodifluoromethane	8260B	<11.7	ug/kg			
1,1-Dichloroethane	8260B	<5.8	ug/kg			
1,2-Dichloroethane	8260B	<5.8	ug/kg			
1,1-Dichloroethene	8260B	<5.8	ug/kg			
cis-1,2-Dichloroethene	8260B	<5.8	ug/kg			
trans-1,2-Dichloroethene	8260B	<5.8	ug/kg			
1,2-Dichloropropane	8260B	<5.8	ug/kg			
cis-1,3-Dichloropropene	8260B	<5.8	ug/kg			
trans-1,3-Dichloropropene	8260B	<5.8	ug/kg			
Diisopropyl ether (IPE)	8260B	<5.8	ug/kg			
Ethyl benzene	8260B	<5.8	ug/kg			
Ethyl methacrylate	8260B	<5.8	ug/kg			
2-Hexanone	8260B	<5.8	ug/kg			
Methylene chloride	8260B	<5.8	ug/kg			
Methyl iodide	8260B	<5.8	ug/kg			
4-Methyl-2-pentanone	8260B	<5.8	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<5.8	ug/kg			
Naphthalene	8260B	<5.8	ug/kg			
Styrene	8260B	<5.8	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
1,1,2,2-Tetrachloroethane	8260B	<5.8	ug/kg			
Tetrachloroethene	8260B	<5.8	ug/kg			
Toluene	8260B	<5.8	ug/kg			
1,1,1-Trichloroethane	8260B	<5.8	ug/kg			
1,1,2-Trichloroethane	8260B	<5.8	ug/kg			
Trichloroethene	8260B	<5.8	ug/kg			
Trichlorofluoromethane	8260B	<11.7	ug/kg			
1,2,3-Trichloropropane	8260B	<5.8	ug/kg			
Vinyl acetate	8260B	<5.8	ug/kg			
Vinyl chloride	8260B	<11.7	ug/kg			
Total Xylenes	8260B	<17.6	ug/kg			
BASE NEUTRAL/ACID EXTRACTABLES*				09/17/98	09/18/98	JAF
Acenaphthene	8270C	<406	ug/kg			
Acenaphthylene	8270C	<406	ug/kg			
Acetophenone	8270C	<406	ug/kg			
4-Aminobiphenyl	8270C	<406	ug/kg			
Aniline	8270C	<406	ug/kg			
Anthracene	8270C	<406	ug/kg			
Benzidine	8270C	<406	ug/kg			
Benzoic acid	8270C	<406	ug/kg			
Benzo(a)anthracene	8270C	<406	ug/kg			
Benzo(b+k)fluoranthene	8270C	<812	ug/kg			
Benzo(g,h,i)perylene	8270C	<406	ug/kg			
Benzo(a)pyrene	8270C	<406	ug/kg			
Benzyl alcohol	8270C	<812	ug/kg			
bis(2-Chloroethoxy)methane	8270C	<406	ug/kg			
bis(2-Chloroethyl)ether	8270C	<406	ug/kg			
bis(2-Chloroisopropyl)ether	8270C	<406	ug/kg			
bis(2-Ethylhexyl)phthalate	8270C	<406	ug/kg			
4-Bromophenylphenylether	8270C	<406	ug/kg			
Butylbenzylphthalate	8270C	<406	ug/kg			
Chloroaniline	8270C	<406	ug/kg			
4-Chloro-3-methylphenol	8270C	<406	ug/kg			
1-Chloronaphthalene	8270C	<406	ug/kg			
2-Chloronaphthalene	8270C	<406	ug/kg			
2-Chlorophenol	8270C	<406	ug/kg			
4-Chlorophenylphenylether	8270C	<406	ug/kg			
Chrysene	8270C	<406	ug/kg			
m+p-Cresol	8270C	<812	ug/kg			
o-Cresol	8270C	<406	ug/kg			
Dibenzo(a,j)acridine	8270C	<406	ug/kg			
Dibenzo(a,h)anthracene	8270C	<406	ug/kg			
Dibenzofuran	8270C	<406	ug/kg			
Di-N-Butylphthalate	8270C	<406	ug/kg			
1,2-Dichlorobenzene	8270C	<406	ug/kg			
1,3-Dichlorobenzene	8270C	<406	ug/kg			
1,4-Dichlorobenzene	8270C	<406	ug/kg			
3,3'-Dichlorobenzidine	8270C	<406	ug/kg			
2,4-Dichlorophenol	8270C	<406	ug/kg			
2,6-Dichlorophenol	8270C	<406	ug/kg			
Diethylphthalate	8270C	<406	ug/kg			
p-Dimethylaminoazobenzene	8270C	<406	ug/kg			
7,12-Dimethylbenzo(a)anthracene	8270C	<406	ug/kg			
a,a-Dimethylphenethylamine	8270C	<406	ug/kg			
2,4-Dimethylphenol	8270C	<406	ug/kg			
Dimethylphthalate	8270C	<406	ug/kg			
4,6-Dinitro-2-methylphenol	8270C	<406	ug/kg			
2,4-Dinitrophenol	8270C	<406	ug/kg			
2,4-Dinitrotoluene	8270C	<406	ug/kg			
2,6-Dinitrotoluene	8270C	<406	ug/kg			
Di-N-Octylphthalate	8270C	<406	ug/kg			
Diphenylamine	8270C	<406	ug/kg			
Ethyl methanesulfonate	8270C	<406	ug/kg			
Fluoranthene	8270C	459	ug/kg			
Fluorene	8270C	<406	ug/kg			
Hexachlorobenzene	8270C	<406	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<406	ug/kg			
Hexachlorocyclopentadiene	8270C	<406	ug/kg			
Hexachloroethane	8270C	<406	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	<406	ug/kg			
Isophorone	8270C	<406	ug/kg			
3-Methylcholanthrene	8270C	<406	ug/kg			
Methyl methanesulfonate	8270C	<406	ug/kg			
2-Methylnaphthalene	8270C	<406	ug/kg			
Naphthalene	8270C	<406	ug/kg			
1-Naphthylamine	8270C	<406	ug/kg			
2-Naphthylamine	8270C	<406	ug/kg			
2-Nitroaniline	8270C	<406	ug/kg			
3-Nitroaniline	8270C	<406	ug/kg			
4-Nitroaniline	8270C	<406	ug/kg			
Nitrobenzene	8270C	<406	ug/kg			
2-Nitrophenol	8270C	<406	ug/kg			
4-Nitrophenol	8270C	<406	ug/kg			
N-Nitroso-di-butylamine	8270C	<406	ug/kg			
N-Nitrosodimethylamine	8270C	<406	ug/kg			
N-Nitrosodiphenylamine	8270C	<406	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<406	ug/kg			
N-Nitrosopiperidine	8270C	<406	ug/kg			
Pentachlorobenzene	8270C	<406	ug/kg			
Pentachloronitrobenzene	8270C	<406	ug/kg			
Pentachlorophenol	8270C	<406	ug/kg			
Phenacetin	8270C	<406	ug/kg			
Phenanthrene	8270C	<406	ug/kg			
Phenol	8270C	<406	ug/kg			
2-Picoline	8270C	<406	ug/kg			
Pronamide	8270C	<406	ug/kg			
Pyrene	8270C	<406	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<406	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<406	ug/kg			
1,2,4-Trichlorobenzene	8270C	<406	ug/kg			
2,4,5-Trichlorophenol	8270C	<406	ug/kg			
2,4,6-Trichlorophenol	8270C	<406	ug/kg			

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

106 VANTAGE POINT DRIVE
CAYCE, SOUTH CAROLINA 29033

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146789NR
Description: GP-13 @ 6-8'

Coll. Date: 09/17/98
Coll. Time: 1400

Date Received: 09/18/98
Date Reported: 09/18/98

QA/QC Officer MAW

V.P. Analytical MA

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	82.1	%		09/18/98	MAW
VOLATILE ORGANICS*					09/18/98	RED
Acetone	8260B	<24.4	ug/kg			
Acetonitrile	8260B	<60.9	ug/kg			
Acrolein	8260B	<60.9	ug/kg			
Acrylonitrile	8260B	<60.9	ug/kg			
Benzene	8260B	<6.1	ug/kg			
Bromodichloromethane	8260B	<6.1	ug/kg			
Bromoform	8260B	<6.1	ug/kg			
Bromomethane (Methyl bromide)	8260B	<12.2	ug/kg			
2-Butanone (MEK)	8260B	<6.1	ug/kg			
Carbon disulfide	8260B	<6.1	ug/kg			
Carbon tetrachloride	8260B	<6.1	ug/kg			
Chlorobenzene	8260B	<6.1	ug/kg			
Chloroethane	8260B	<12.2	ug/kg			
2-Chloroethylvinylether	8260B	<6.1	ug/kg			
Chloroform	8260B	<6.1	ug/kg			
Chloromethane (Methyl chloride)	8260B	<12.2	ug/kg			
Dibromochloromethane	8260B	<6.1	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<6.1	ug/kg			
Dibromomethane	8260B	<6.1	ug/kg			
1,2-Dichlorobenzene	8260B	<6.1	ug/kg			
1,3-Dichlorobenzene	8260B	<6.1	ug/kg			
1,4-Dichlorobenzene	8260B	<6.1	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<12.2	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<12.2	ug/kg			
Dichlorodifluoromethane	8260B	<12.2	ug/kg			
1,1-Dichloroethane	8260B	<6.1	ug/kg			
1,2-Dichloroethane	8260B	<6.1	ug/kg			
1,1-Dichloroethene	8260B	<6.1	ug/kg			
cis-1,2-Dichloroethene	8260B	<6.1	ug/kg			
trans-1,2-Dichloroethene	8260B	<6.1	ug/kg			
1,2-Dichloropropane	8260B	<6.1	ug/kg			
cis-1,3-Dichloropropene	8260B	<6.1	ug/kg			
trans-1,3-Dichloropropene	8260B	<6.1	ug/kg			
Diisopropyl ether (IPE)	8260B	<6.1	ug/kg			
Ethyl benzene	8260B	<6.1	ug/kg			
Ethyl methacrylate	8260B	<6.1	ug/kg			
2-Hexanone	8260B	<6.1	ug/kg			
Methylene chloride	8260B	<6.1	ug/kg			
Methyl iodide	8260B	<6.1	ug/kg			
4-Methyl-2-pentanone	8260B	<6.1	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<6.1	ug/kg			
Naphthalene	8260B	<6.1	ug/kg			
Styrene	8260B	<6.1	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
1,1,2,2-Tetrachloroethane	8260B	<6.1	ug/kg			
Tetrachloroethene	8260B	<6.1	ug/kg			
Toluene	8260B	<6.1	ug/kg			
1,1,1-Trichloroethane	8260B	<6.1	ug/kg			
1,1,2-Trichloroethane	8260B	<6.1	ug/kg			
Trichloroethene	8260B	<6.1	ug/kg			
Trichlorofluoromethane	8260B	<12.2	ug/kg			
1,2,3-Trichloropropane	8260B	<6.1	ug/kg			
Vinyl acetate	8260B	<6.1	ug/kg			
Vinyl chloride	8260B	<12.2	ug/kg			
Total Xylenes	8260B	<18.3	ug/kg			
BASE NEUTRAL/ACID EXTRACTABLES*				09/17/98	09/18/98	JAF
Acenaphthene	8270C	<446	ug/kg			
Acenaphthylene	8270C	<446	ug/kg			
Acetophenone	8270C	<446	ug/kg			
4-Aminobiphenyl	8270C	<446	ug/kg			
Aniline	8270C	<446	ug/kg			
Anthracene	8270C	<446	ug/kg			
Benzidine	8270C	<446	ug/kg			
Benzoic acid	8270C	<446	ug/kg			
Benzo(a)anthracene	8270C	<446	ug/kg			
Benzo(b+k)fluoranthene	8270C	<894	ug/kg			
Benzo(g,h,i)perylene	8270C	<446	ug/kg			
Benzo(a)pyrene	8270C	<446	ug/kg			
Benzyl alcohol	8270C	<894	ug/kg			
bis(2-Chloroethoxy)methane	8270C	<446	ug/kg			
bis(2-Chloroethyl)ether	8270C	<446	ug/kg			
bis(2-Chloroisopropyl)ether	8270C	<446	ug/kg			
bis(2-Ethylhexyl)phthalate	8270C	<446	ug/kg			
4-Bromophenylphenylether	8270C	<446	ug/kg			
Butylbenzylphthalate	8270C	<446	ug/kg			
Chloroaniline	8270C	<446	ug/kg			
4-Chloro-3-methylphenol	8270C	<446	ug/kg			
1-Chloronaphthalene	8270C	<446	ug/kg			
2-Chloronaphthalene	8270C	<446	ug/kg			
2-Chlorophenol	8270C	<446	ug/kg			
4-Chlorophenylphenylether	8270C	<446	ug/kg			
Chrysene	8270C	<446	ug/kg			
m+p-Cresol	8270C	<894	ug/kg			
o-Cresol	8270C	<446	ug/kg			
Dibenzo(a,j)acridine	8270C	<446	ug/kg			
Dibenzo(a,h)anthracene	8270C	<446	ug/kg			
Dibenzofuran	8270C	<446	ug/kg			
Di-N-Butylphthalate	8270C	<446	ug/kg			
1,2-Dichlorobenzene	8270C	<446	ug/kg			
1,3-Dichlorobenzene	8270C	<446	ug/kg			
1,4-Dichlorobenzene	8270C	<446	ug/kg			
3,3'-Dichlorobenzidine	8270C	<446	ug/kg			
2,4-Dichlorophenol	8270C	<446	ug/kg			
2,6-Dichlorophenol	8270C	<446	ug/kg			
Diethylphthalate	8270C	<446	ug/kg			
p-Dimethylaminoazobenzene	8270C	<446	ug/kg			
7,12-Dimethylbenzo(a)anthracene	8270C	<446	ug/kg			
a,a-Dimethylphenethylamine	8270C	<446	ug/kg			
2,4-Dimethylphenol	8270C	<446	ug/kg			
Dimethylphthalate	8270C	<446	ug/kg			
4,6-Dinitro-2-methylphenol	8270C	<446	ug/kg			
2,4-Dinitrophenol	8270C	<446	ug/kg			
2,4-Dinitrotoluene	8270C	<446	ug/kg			
2,6-Dinitrotoluene	8270C	<446	ug/kg			
Di-N-Octylphthalate	8270C	<446	ug/kg			
Diphenylamine	8270C	<446	ug/kg			
Ethyl methanesulfonate	8270C	<446	ug/kg			
Fluoranthene	8270C	<446	ug/kg			
Fluorene	8270C	<446	ug/kg			
Hexachlorobenzene	8270C	<446	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<446	ug/kg			
Hexachlorocyclopentadiene	8270C	<446	ug/kg			
Hexachloroethane	8270C	<446	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	<446	ug/kg			
Isophorone	8270C	<446	ug/kg			
3-Methylcholanthrene	8270C	<446	ug/kg			
Methyl methanesulfonate	8270C	<446	ug/kg			
2-Methylnaphthalene	8270C	<446	ug/kg			
Naphthalene	8270C	<446	ug/kg			
1-Naphthylamine	8270C	<446	ug/kg			
2-Naphthylamine	8270C	<446	ug/kg			
2-Nitroaniline	8270C	<446	ug/kg			
3-Nitroaniline	8270C	<446	ug/kg			
4-Nitroaniline	8270C	<446	ug/kg			
Nitrobenzene	8270C	<446	ug/kg			
2-Nitrophenol	8270C	<446	ug/kg			
4-Nitrophenol	8270C	<446	ug/kg			
N-Nitroso-di-butylamine	8270C	<446	ug/kg			
N-Nitrosodimethylamine	8270C	<446	ug/kg			
N-Nitrosodiphenylamine	8270C	<446	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<446	ug/kg			
N-Nitrosopiperidine	8270C	<446	ug/kg			
Pentachlorobenzene	8270C	<446	ug/kg			
Pentachloronitrobenzene	8270C	<446	ug/kg			
Pentachlorophenol	8270C	<446	ug/kg			
Phenacetin	8270C	<446	ug/kg			
Phenanthrene	8270C	<446	ug/kg			
Phenol	8270C	<446	ug/kg			
2-Picoline	8270C	<446	ug/kg			
Pronamide	8270C	<446	ug/kg			
Pyrene	8270C	<446	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<446	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<446	ug/kg			
1,2,4-Trichlorobenzene	8270C	<446	ug/kg			
2,4,5-Trichlorophenol	8270C	<446	ug/kg			
2,4,6-Trichlorophenol	8270C	<446	ug/kg			

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

106 VANTAGE POINT DRIVE
CAYCE, SOUTH CAROLINA 29033

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FAX (803) 791-9111
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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: S&ME, INC.
9751 Southern Pine Blvd.
Charlotte, NC 28273

PO Number: 21554
Attention: Al Quarles

SHEALY Lab No: 146790NR
Description: GP-12 @ 8-10'

Coll. Date: 09/17/98
Coll. Time: 1500

Date Received: 09/18/98
Date Reported: 09/18/98

QA/QC Officer _____

V.P. Analytical _____

*Based on dry weight

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
% Solids	160.3	74.6	%		09/18/98	MAW
VOLATILE ORGANICS*					09/18/98	RED
Acetone	8260B	46.8	ug/kg			
Acetonitrile	8260B	89.1	ug/kg			
Acrolein	8260B	<67.0	ug/kg			
Acrylonitrile	8260B	<67.0	ug/kg			
Benzene	8260B	<6.7	ug/kg			
Bromodichloromethane	8260B	<6.7	ug/kg			
Bromoform	8260B	<6.7	ug/kg			
Bromomethane (Methyl bromide)	8260B	<13.4	ug/kg			
2-Butanone (MEK)	8260B	6.5	ug/kg			
Carbon disulfide	8260B	<6.7	ug/kg			
Carbon tetrachloride	8260B	<6.7	ug/kg			
Chlorobenzene	8260B	<6.7	ug/kg			
Chloroethane	8260B	<13.4	ug/kg			
2-Chloroethylvinylether	8260B	<6.7	ug/kg			
Chloroform	8260B	<6.7	ug/kg			
Chloromethane (Methyl chloride)	8260B	<13.4	ug/kg			
Dibromochloromethane	8260B	<6.7	ug/kg			
1,2-Dibromoethane (EDB)	8260B	<6.7	ug/kg			
Dibromomethane	8260B	<6.7	ug/kg			
1,2-Dichlorobenzene	8260B	<6.7	ug/kg			
1,3-Dichlorobenzene	8260B	<6.7	ug/kg			
1,4-Dichlorobenzene	8260B	<6.7	ug/kg			
cis-1,4-Dichloro-2-butene	8260B	<13.4	ug/kg			
trans-1,4-Dichloro-2-butene	8260B	<13.4	ug/kg			
Dichlorodifluoromethane	8260B	<13.4	ug/kg			
1,1-Dichloroethane	8260B	<6.7	ug/kg			
1,2-Dichloroethane	8260B	<6.7	ug/kg			
1,1-Dichloroethene	8260B	<6.7	ug/kg			
cis-1,2-Dichloroethene	8260B	<6.7	ug/kg			
trans-1,2-Dichloroethene	8260B	<6.7	ug/kg			
1,2-Dichloropropane	8260B	<6.7	ug/kg			
cis-1,3-Dichloropropene	8260B	<6.7	ug/kg			
trans-1,3-Dichloropropene	8260B	<6.7	ug/kg			
Diisopropyl ether (IPE)	8260B	<6.7	ug/kg			
Ethyl benzene	8260B	<6.7	ug/kg			
Ethyl methacrylate	8260B	<6.7	ug/kg			
2-Hexanone	8260B	<6.7	ug/kg			
Methylene chloride	8260B	<6.7	ug/kg			
Methyl iodide	8260B	<6.7	ug/kg			
4-Methyl-2-pentanone	8260B	<6.7	ug/kg			
Methyl tertiary butyl ether (MTBE)	8260B	<6.7	ug/kg			
Naphthalene	8260B	<6.7	ug/kg			
Styrene	8260B	<6.7	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
1,1,2,2-Tetrachloroethane	8260B	<6.7	ug/kg			
Tetrachloroethene	8260B	<6.7	ug/kg			
Toluene	8260B	<6.7	ug/kg			
1,1,1-Trichloroethane	8260B	<6.7	ug/kg			
1,1,2-Trichloroethane	8260B	<6.7	ug/kg			
Trichloroethene	8260B	<6.7	ug/kg			
Trichlorofluoromethane	8260B	<13.4	ug/kg			
1,2,3-Trichloropropane	8260B	<6.7	ug/kg			
Vinyl acetate	8260B	<6.7	ug/kg			
Vinyl chloride	8260B	<13.4	ug/kg			
Total Xylenes	8260B	<20.1	ug/kg			
BASE NEUTRAL/ACID EXTRACTABLES*				09/17/98	09/18/98	JAF
Acenaphthene	8270C	<347	ug/kg			
Acenaphthylene	8270C	<347	ug/kg			
Acetophenone	8270C	<347	ug/kg			
4-Aminobiphenyl	8270C	<347	ug/kg			
Aniline	8270C	<347	ug/kg			
Anthracene	8270C	<347	ug/kg			
Benzidine	8270C	<347	ug/kg			
Benzoic acid	8270C	<347	ug/kg			
Benzo(a)anthracene	8270C	<347	ug/kg			
Benzo(b+k)fluoranthene	8270C	<695	ug/kg			
Benzo(g,h,i)perylene	8270C	<347	ug/kg			
Benzo(a)pyrene	8270C	<347	ug/kg			
Benzyl alcohol	8270C	<695	ug/kg			
bis(2-Chloroethoxy)methane	8270C	<347	ug/kg			
bis(2-Chloroethyl)ether	8270C	<347	ug/kg			
bis(2-Chloroisopropyl)ether	8270C	<347	ug/kg			
bis(2-Ethylhexyl)phthalate	8270C	<347	ug/kg			
4-Bromophenylphenylether	8270C	<347	ug/kg			
Butylbenzylphthalate	8270C	<347	ug/kg			
Chloroaniline	8270C	<347	ug/kg			
4-Chloro-3-methylphenol	8270C	<347	ug/kg			
1-Chloronaphthalene	8270C	<347	ug/kg			
2-Chloronaphthalene	8270C	<347	ug/kg			
2-Chlorophenol	8270C	<347	ug/kg			
4-Chlorophenylphenylether	8270C	<347	ug/kg			
Chrysene	8270C	<347	ug/kg			
m+p-Cresol	8270C	<695	ug/kg			
o-Cresol	8270C	<347	ug/kg			
Dibenzo(a,j)acridine	8270C	<347	ug/kg			
Dibenzo(a,h)anthracene	8270C	<347	ug/kg			
Dibenzofuran	8270C	<347	ug/kg			
Di-N-Butylphthalate	8270C	<347	ug/kg			
1,2-Dichlorobenzene	8270C	<347	ug/kg			
1,3-Dichlorobenzene	8270C	<347	ug/kg			
1,4-Dichlorobenzene	8270C	<347	ug/kg			
3,3'-Dichlorobenzidine	8270C	<347	ug/kg			
2,4-Dichlorophenol	8270C	<347	ug/kg			
2,6-Dichlorophenol	8270C	<347	ug/kg			
Diethylphthalate	8270C	<347	ug/kg			
p-Dimethylaminoazobenzene	8270C	<347	ug/kg			
7,12-Dimethylbenzo(a)anthracene	8270C	<347	ug/kg			
a,a-Dimethylphenethylamine	8270C	<347	ug/kg			
2,4-Dimethylphenol	8270C	<347	ug/kg			
Dimethylphthalate	8270C	<347	ug/kg			
4,6-Dinitro-2-methylphenol	8270C	<347	ug/kg			
2,4-Dinitrophenol	8270C	<347	ug/kg			
2,4-Dinitrotoluene	8270C	<347	ug/kg			
2,6-Dinitrotoluene	8270C	<347	ug/kg			
Di-N-Octylphthalate	8270C	<347	ug/kg			
Diphenylamine	8270C	<347	ug/kg			
Ethyl methanesulfonate	8270C	<347	ug/kg			
Fluoranthene	8270C	<347	ug/kg			
Fluorene	8270C	<347	ug/kg			
Hexachlorobenzene	8270C	<347	ug/kg			

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
Hexachlorobutadiene	8270C	<347	ug/kg			
Hexachlorocyclopentadiene	8270C	<347	ug/kg			
Hexachloroethane	8270C	<347	ug/kg			
Indeno(1,2,3-c,d)pyrene	8270C	<347	ug/kg			
Isophorone	8270C	<347	ug/kg			
3-Methylcholanthrene	8270C	<347	ug/kg			
Methyl methanesulfonate	8270C	<347	ug/kg			
2-Methylnaphthalene	8270C	<347	ug/kg			
Naphthalene	8270C	<347	ug/kg			
1-Naphthylamine	8270C	<347	ug/kg			
2-Naphthylamine	8270C	<347	ug/kg			
2-Nitroaniline	8270C	<347	ug/kg			
3-Nitroaniline	8270C	<347	ug/kg			
4-Nitroaniline	8270C	<347	ug/kg			
Nitrobenzene	8270C	<347	ug/kg			
2-Nitrophenol	8270C	<347	ug/kg			
4-Nitrophenol	8270C	<347	ug/kg			
N-Nitroso-di-butylamine	8270C	<347	ug/kg			
N-Nitrosodimethylamine	8270C	<347	ug/kg			
N-Nitrosodiphenylamine	8270C	<347	ug/kg			
N-Nitroso-di-N-propylamine	8270C	<347	ug/kg			
N-Nitrosopiperidine	8270C	<347	ug/kg			
Pentachlorobenzene	8270C	<347	ug/kg			
Pentachloronitrobenzene	8270C	<347	ug/kg			
Pentachlorophenol	8270C	<347	ug/kg			
Phenacetin	8270C	<347	ug/kg			
Phenanthrene	8270C	<347	ug/kg			
Phenol	8270C	<347	ug/kg			
2-Picoline	8270C	<347	ug/kg			
Pronamide	8270C	<347	ug/kg			
Pyrene	8270C	<347	ug/kg			
1,2,4,5-Tetrachlorobenzene	8270C	<347	ug/kg			
2,3,4,6-Tetrachlorophenol	8270C	<347	ug/kg			
1,2,4-Trichlorobenzene	8270C	<347	ug/kg			
2,4,5-Trichlorophenol	8270C	<347	ug/kg			
2,4,6-Trichlorophenol	8270C	<347	ug/kg			

USE BALL POINT PEN ONLY, PRESS HARD

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

CHAIN OF CUSTODY #

Client Name: STMIE Inc.
Reporting Address: 9751 Southern Pine Blvd
Charlotte, NC 28273
Attention: Al Quarles
Telephone No. 523-1726 P.O. No.

NPDES #
County
Receiving Stream
Outfall No.

←PRESERVATION (CODE)
CODE: A = None, B = HNO3, C = H2SO4, D = NaOH, E = ICE, F =

Sample ID (Location)	Yr. 98 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	8260	8270BN	% TS	REMARKS	SESI LAB I.D.
(Preservation)																								A	A			
GP-10 @ 8'-10'	Start 9-17 / Finish	1030			X		2																	X	X	+	146786NR	
GP-9 @ 8'-10'	Start 9-17 / Finish	1110			X		2																	X	X	+	146787NR	
GP-11 @ 6'-8'	Start 9-17 / Finish	1200			X		2																	X	X	+	146788NR	
GP-13 @ 6'-8'	Start 9-17 / Finish	1400			X		2																	X	X	+	146789NR	
GP-12 @ 8'-10'	Start 9-17 / Finish	1500			X		2																	X	X	+	146790NR	
[illegible]	Start / Finish																										ALL SAMPLES 24-HOUR TAT.	
[illegible]	Start / Finish																										RESULTS DUE 9/18/98	
	Start / Finish																											

LAB USE ONLY
Program Area (Circle): DW, CWA/NPDES, RCRA, SP/SOL, SP/LIQ, Other:

SAMPLER	Date/Time	Received by (Sig.)	Date/Time
Print Name: Kevin Scott; Signature: K Scott	9-17-98 1620	[signature]	9/17/98 1620
Relinquished by (Sig.) [signature]	9/17/98 1730	Received by (Sig.) DIRECT EXPRESS	9/17/98 1730
Relinquished by (Sig.) DIRECT EXPRESS	9/18/98	Lab Receipt by (Sig.)	

Hazards Associated with Sample

Custody Seal Intact (Circle) YES NO NONE
Receipt TRC ______ mg/l
Receipt pH ______ su
Receipt Temp. ______ °C
Received on Ice (Circle) YES NO ICE PACK

White Copy: Sampler — Yellow Copy: Shealy — Pink Copy: Report

AMERICAN SYSTEMS, COLUMBIA, S.C.