ROGERS & CALLCOTT
ENGINEERS, INC.
P.O. Box 5655, Greenville, SC 29606
Phone (803) 232-1556 • FAX (803) 233-9058

J. L. Rogers, P.E.
F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

CLIENT: S & ME
ATTENTION: MIKE MARCUS
155 TRADD STREET
SPARTANBURG, SC 29301

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79576	BC-20 SOIL ON 11/29/95 AT 14:00

PARAMETER	RESULT
TOTAL SOLIDS (AT TIME OF ANALYSES), %	86
TOTAL METALS	
ALUMINUM	15,000
ANTIMONY	<2.9
ARSENIC	<2.9
BARIUM	31
BERYLLIUM	<0.58
CADMIUM	<0.58
CALCIUM	870
CHROMIUM	7.0
COBALT	<0.58
COPPER	5.0
IRON	7,600
LEAD	4.2
LITHIUM	7.1
MAGNESIUM	450
MANGANESE	37
MERCURY	<0.12

RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg) BASED ON DRY WEIGHT UNLESS OTHERWISE NOTED.

CONTINUED ON PAGE 2

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79576	BC-20 SOIL ON 11/29/95 AT 14:00

PARAMETER	RESULT
TOTAL METALS (CONTINUED)	
MOLYBDENUM	0.92
NICKEL	2.9
PHOSPHORUS	49
POTASSIUM	900
SELENIUM	<2.9
SILVER	<0.58
SODIUM	50
THALLIUM	<2.9
VANADIUM	13
ZINC	10

RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg) BASED ON DRY WEIGHT UNLESS OTHERWISE NOTED.

CONTINUED ON PAGE 3

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79576	BC-20 SOIL ON 11/29/95 AT 14:00

ANALYSES CHRONOLOGY

PARAMETER	DATE/TIME ANALYZED	METHOD#	ANALYST
ALUMINUM	12/02 @ 13:02	6010	FERGUSON
ANTIMONY	11/30 @ 10:00	"	"
ARSENIC	"	"	"
BARIUM	"	"	"
BERYLLIUM	"	"	"
CADMIUM	"	"	"
CALCIUM	"	"	"
CHROMIUM	"	"	"
COBALT	"	"	"
COPPER	"	"	"
IRON	12/02 @ 13:02	"	"
LEAD	11/30 @ 10:00	"	"
LITHIUM	"	"	"
MAGNESIUM	"	"	"
MANGANESE	"	"	"
MERCURY	12/01 @ 10:45	7471	LEAVITT
MOLYBDENUM	11/30 @ 10:00	6010	FERGUSON
NICKEL	"	"	"
PHOSPHORUS	"	"	"
POTASSIUM	"	"	"
SELENIUM	"	"	"
SILVER	"	"	"
SODIUM	12/02 @ 13:02	"	"
THALLIUM	11/30 @ 10:00	"	"
VANADIUM	"	"	"
ZINC	"	"	"

REPORTED BY: Sam W. Avery
SAM W. AVERY, LABORATORY MANAGER

CC: GENE McCALL (LWTM)

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DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79577	BC-21 SOIL ON 11/29/95 AT 14:20

PARAMETER	RESULT
TOTAL SOLIDS (AT TIME OF ANALYSES), %	86
TOTAL METALS	
ALUMINUM	20,000
ANTIMONY	<2.9
ARSENIC	<2.9
BARIUM	35
BERYLLIUM	<0.58
CADMIUM	<0.58
CALCIUM	690
CHROMIUM	9.2
COBALT	<0.58
COPPER	6.9
IRON	9,300
LEAD	8.5
LITHIUM	8.3
MAGNESIUM	490
MANGANESE	23
MERCURY	<0.12

RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg) BASED ON DRY WEIGHT UNLESS OTHERWISE NOTED.

CONTINUED ON PAGE 2

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

S.C. LABORATORY CERTIFICATION NUMBER - 23105

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79577	BC-21 SOIL ON 11/29/95 AT 14:20

PARAMETER	RESULT
TOTAL METALS (CONTINUED)	
MOLYBDENUM	<0.58
NICKEL	3.3
PHOSPHORUS	57
POTASSIUM	940
SELENIUM	<2.9
SILVER	<0.58
SODIUM	56
THALLIUM	<2.9
VANADIUM	17
ZINC	13

RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg) BASED ON DRY WEIGHT UNLESS OTHERWISE NOTED.

CONTINUED ON PAGE 3

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79577	BC-21 SOIL ON 11/29/95 AT 14:20

ANALYSES CHRONOLOGY

PARAMETER	DATE/TIME ANALYZED	METHOD#	ANALYST
ALUMINUM	12/02 @ 13:02	6010	FERGUSON
ANTIMONY	11/30 @ 10:00	"	"
ARSENIC	"	"	"
BARIUM	"	"	"
BERYLLIUM	"	"	"
CADMIUM	"	"	"
CALCIUM	"	"	"
CHROMIUM	"	"	"
COBALT	"	"	"
COPPER	"	"	"
IRON	12/02 @ 13:02	"	"
LEAD	11/30 @ 10:00	"	"
LITHIUM	"	"	"
MAGNESIUM	"	"	"
MANGANESE	"	"	"
MERCURY	12/01 @ 10:45	7471	LEAVITT
MOLYBDENUM	11/30 @ 10:00	6010	FERGUSON
NICKEL	"	"	"
PHOSPHORUS	"	"	"
POTASSIUM	"	"	"
SELENIUM	"	"	"
SILVER	"	"	"
SODIUM	12/02 @ 13:02	"	"
THALLIUM	11/30 @ 10:00	"	"
VANADIUM	"	"	"
ZINC	"	"	"

REPORTED BY: Sam W. Avery
SAM W. AVERY, LABORATORY MANAGER

CC: GENE McCALL (LWTM)

BULK SAMPLE

CHAIN OF CUSTODY RECORD

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING • TESTING

PROJECT NO.	PROJECT NAME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
1264-95-506	GIBBS/REEVES	Scott Dacus	12/1/95	1545	John Whitehead
FACILITY		**RELINQUISHED BY:**	**DATE**	**TIME**	**RECEIVED BY:**
BESSEMER CITY		John Whitehead	12-4-95	0917	Donnie Larson
SAMPLER(S)	**DATE TAKEN**	**RELINQUISHED BY:**	**DATE**	**TIME**	**RECEIVED BY:**
SCOTT DACUS	12/1/95	Donnie Larson	12/4/95	10:50	Chrm Harbin

SAMPLE #	HOMOGENEOUS AREA	MATERIAL TYPE	LAB NUMBER	DATE ANALYZED	ANALYSTS INITIALS	ASBESTOS +	ASBESTOS N/D	ARCHIVE NUMBER	DATE ARCH	ARCHIVER INITIALS	SPECIAL INSTRUCTIONS
BC-101	UPPER SPINNING	EXTERIOR WALL PANEL	E28740	12.4.95	CMH	45 CHRY					
BC-102	OFFICE	J	E28741	↓	↓		/				
BC-103	OFFICE	N	E28742				/				
BC-104	WINDING CANTEEN	J	E28743				/				
BC-105	WINDING OFFICE	N	E28744				/				

ALL SAMPLES WILL BE DISPOSED OF NINETY DAYS AFTER ANALYSIS UNLESS OTHERWISE REQUESTED

MATERIAL TYPES

A - <4" Pipe Fitting
B - 4-8" Pipe Fitting
C - 9-14" Pipe Fitting
D - >14" Pipe Fitting
E - <4" Pipe
F - 4-8" Pipe
G - 9-14" Pipe
H - >14" Pipe
I - Spray-On/Trowel
J - Floor Tile
K - Tanks/Boiler
L - A.H.U. Insul.
M - A.H.U. Exp. Jt.
N - Ceiling/Wall Tile
O - Fiberboard
P - Other (See notes - Front or back)

This document was prepared pursuant to a specific agreement to address the unique requirements of an S&ME client.

S&ME, Inc.
9751 Southern Pine Boulevard; Post Office Box 7668
Charlotte, North Carolina 28241-7668
(704) 523-4726 FAX: (704) 525-3953
NVLAP #102075

ASBESTOS BULK SAMPLE ANALYSIS*

Client: Gibbs & Reeves Date: 12-4-95

Job Name: Bessemer City Lab ID#: E2874 2

Job Number: 1264-95-506 Client Sample ID#: BC-10 3

Gross Sample Description: tan fibrous

Fiber: Straight/Stiff _____ Bundular _____ Regular _____

Morphology: Shredded/Irregular 1 Heliptical _____ Other _____

Fiber Type	Refrac. Index n =	Refrac. Index n _	Pleochroism Yes	Pleochroism No	Extinction Parallel	Extinction Oblique	Extinction Rolling	Extinction Isotropic	Sign of Elongation +	Sign of Elongation -	Dispersion Staining n =	Dispersion Staining n _
cellulose	1.57	1.54		✓			✓		✓		yell	blue
2												
3												
4												

Asbestos:	%	Other Fibrous Materials:	%	Non-Fibrous Materials:	%
Chrysotile		Fibrous Glass		Paint	
Amosite		Cellulose	80	Perlite	
Crocidolite		Synthetic		Binders	20
Tremolite		Cotton		Plaster/Masonry	
Anthophyllite		Mineral Wool		Bitumen	
Actinolite		Other _____		Other _____	
Total % Asbestos	nd	Total % of Other Fibrous Material	80	Total % of Non-Fibrous Material	20

Comments: _____

*Samples were analyzed for asbestos content by Polarized Light Microscopy (PLM) coupled with dispersion staining. The percentage of each component is visually estimated. The analysis followed the procedure found in 40 CFR Ch. I, Pt. 763, subpart F, Appendix A.

Analyzed by: Chris Hartzell Laboratory QA/QC Director: Chris Hartzell

Note: The results pertain only to the sample identification above. The sample may not be fully representative of the larger material in question. Percentage values listed represent estimates rather than exact amounts. NVAP (National Voluntary Laboratory Accreditation Program). This sheet may not be reproduced except with permission from S&ME, Inc.

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ASBESTOS BULK SAMPLE ANALYSIS*

Client: Gibbs & Reeves Date: 12-4-95

Job Name: Bessemer City Lab ID#: E2874 3

Job Number: 1264-95-506 Client Sample ID#: BC-10 4

Gross Sample Description: grey granular

Fiber: Straight/Stiff _____ Bundular _____ Regular _____

Morphology: Shredded/Irregular _____ Heliptical _____ Other _____

Fiber Type	Refrac. Index n =	Refrac. Index n _	Pleochroism Yes	Pleochroism No	Extinction Parallel	Extinction Oblique	Extinction Rolling	Extinction Isotropic	Sign of Elongation +	Sign of Elongation -	Dispersion Staining n =	Dispersion Staining n _
1												
2												
3												
4												

Asbestos:	T	% M	Other Fibrous Materials:	T	% M	Non-Fibrous Materials:	T	% M
Chrysotile			Fibrous Glass			Paint		
Amosite			Cellulose			Perlite		
Crocidolite			Synthetic			Binders		100
Tremolite			Cotton			Plaster/Masonry	100	
Anthophyllite			Mineral Wool			Bitumen		
Actinolite			Other _____			Other _____		
Total % Asbestos	nd	nd	Total % of Other Fibrous Material	nd	nd	Total % of Non-Fibrous Material	100	100

Comments: _____

*Samples were analyzed for asbestos content by Polarized Light Microscopy (PLM) coupled with dispersion staining. The percentage of each component is visually estimated. The analysis followed the procedure found in 40 CFR Ch. I, Pt. 763, subpart F, Appendix A.

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ASBESTOS BULK SAMPLE ANALYSIS*

Client: Gibbs & Reeves Date: 12-4-95

Job Name: Bessemer City Lab ID#: E2874 4

Job Number: 1264-95-506 Client Sample ID#: BC-10 5

Gross Sample Description: brown fibrous

Fiber: Straight/Stiff ____ Bundular ____ Regular ____

Morphology: Shredded/Irregular 1 Heliptical ____ Other ____

Fiber Type	Refrac. Index n =	Refrac. Index n _	Pleochroism Yes	Pleochroism No	Extinction Parallel	Extinction Oblique	Extinction Rolling	Extinction Isotropic	Sign of Elongation +	Sign of Elongation -	Dispersion Staining n =	Dispersion Staining n _
cellulose	1.57	1.54		✓			✓		✓		yell	blue
2												
3												
4												

Asbestos:	%	Other Fibrous Materials:	%	Non-Fibrous Materials:	%
Chrysotile		Fibrous Glass		Paint	
Amosite		Cellulose	80	Perlite	
Crocidolite		Synthetic		Binders	20
Tremolite		Cotton		Plaster/Masonry	
Anthophyllite		Mineral Wool		Bitumen	
Actinolite		Other ____		Other ____	
Total % Asbestos	nd	Total % of Other Fibrous Material	80	Total % of Non-Fibrous Material	20

Comments: ____

*Samples were analyzed for asbestos content by Polarized Light Microscopy (PLM) coupled with dispersion staining. The percentage of each component is visually estimated. The analysis followed the procedure found in 40 CFR Ch. I, Pt. 763, subpart F, Appendix A.

Analyzed by: Chris Hartzell Laboratory QA/QC Director: Chris Hartzell

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N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79574	BC-18 SOIL ON 11/29/95 AT 15:50

PARAMETER	RESULT
TOTAL SOLIDS (AT TIME OF ANALYSES), %	83
TOTAL METALS	
ALUMINUM	20,000
ANTIMONY	<3.0
ARSENIC	<3.0
BARIUM	42
BERYLLIUM	<0.60
CADMIUM	<0.60
CALCIUM	2,500
CHROMIUM	16
COBALT	1.3
COPPER	12
IRON	17,000
LEAD	30
LITHIUM	11
MAGNESIUM	600
MANGANESE	60
MERCURY	<0.12

RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg) BASED ON DRY WEIGHT UNLESS OTHERWISE NOTED.

CONTINUED ON PAGE 2

CLIENT: S & ME
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DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79574	BC-18 SOIL ON 11/29/95 AT 15:50

PARAMETER	RESULT
TOTAL METALS (CONTINUED)	
MOLYBDENUM	<0.60
NICKEL	5.4
PHOSPHORUS	110
POTASSIUM	540
SELENIUM	<3.0
SILVER	<0.60
SODIUM	82
THALLIUM	<3.0
VANADIUM	29
ZINC	43

RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg) BASED ON DRY WEIGHT UNLESS OTHERWISE NOTED.

CONTINUED ON PAGE 3

CLIENT: S & ME
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DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79574	BC-18 SOIL ON 11/29/95 AT 15:50

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg	
BENZENE	<10
BROMOBENZENE	<10
BROMOCHLOROMETHANE	<10
BROMODICHLOROMETHANE	<10
BROMOFORM	<10
BROMOMETHANE	<10
-BUTYLBENZENE	<10
sec-BUTYLBENZENE	<10
tert-BUTYLBENZENE	<10
CARBON TETRACHLORIDE	<10
CHLOROBENZENE	<10
CHLOROETHANE	<10
CHLOROFORM	<10
CHLOROMETHANE	<10
2-CHLOROTOLUENE	<10
4-CHLOROTOLUENE	<10
DIBROMOCHLOROMETHANE	<10
1,2-DIBROMO-3-CHLOROPROPANE	<10
1,2-DIBROMOETHANE	<10
DIBROMOMETHANE	<10
1,2-DICHLOROBENZENE	<10
1,3-DICHLOROBENZENE	<10
1,4-DICHLOROBENZENE	<10
DICHLORODIFLUOROMETHANE	<10
1,1-DICHLOROETHANE	<10
1,2-DICHLOROETHANE	<10
1,1-DICHLOROETHENE	<10
cis-1,2-DICHLOROETHENE	<10

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED.

CONTINUED ON PAGE 4

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79574	BC-18 SOIL ON 11/29/95 AT 15:50

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg (CONTINUED)	
trans-1,2-DICHLOROETHENE	<10
1,2-DICHLOROPROPANE	<10
1,3-DICHLOROPROPANE	<10
2,2-DICHLOROPROPANE	<10
1,1-DICHLOROPROPENE	<10
ETHYLBENZENE	<10
HEXACHLOROBUTADIENE	<10
ISOPROPYLBENZENE	<10
p-ISOPROPYLTOLUENE	<10
METHYLENE CHLORIDE	<10
NAPHTHALENE	<10
n-PROPYLBENZENE	<10
STYRENE	<10
1,1,1,2-TETRACHLOROETHANE	<10
1,1,2,2-TETRACHLOROETHANE	<10
TETRACHLOROETHENE	<10
TOLUENE	<10
1,2,3-TRICHLOROBENZENE	<10
1,2,4-TRICHLOROBENZENE	<10
1,1,1-TRICHLOROETHANE	<10
1,1,2-TRICHLOROETHANE	<10
TRICHLOROETHENE	<10
TRICHLOROFLUOROMETHANE	<10
1,2,3-TRICHLOROPROPANE	<10
1,2,4-TRIMETHYLBENZENE	<10
1,3,5-TRIMETHYLBENZENE	<10
VINYL CHLORIDE	<10
o-XYLENE	<10
m/p-XYLENE	<20

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED.

CONTINUED ON PAGE 5

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79574	BC-18 SOIL ON 11/29/95 AT 15:50

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg	
ACENAPHTHENE	380
ACENAPHTHYLENE	<340
ANILINE	<340
ANTHRACENE	740
BENZO(a)ANTHRACENE	2,200
BENZO(b/k)FLUORANTHENE	3,700
BENZO(g,h,i)PERYLENE	1,300
BENZO(a)PYRENE	2,300
BENZYL ALCOHOL	<340
BIS(2-CHLOROETHOXY)METHANE	<340
BIS(2-CHLOROETHYL)ETHER	<340
BIS(2-CHLOROISOPROPYL)ETHER	<340
BIS(2-ETHYLHEXYL)PHTHALATE	<340
4-BROMOPHENYL PHENYL ETHER	<340
BUTYL BENZYL PHTHALATE	<340
4-CHLOROANILINE	<340
2-CHLORONAPHTHALENE	<340
4-CHLORO-3-METHYLPHENOL	<340
2-CHLOROPHENOL	<340
4-CHLOROPHENYL PHENYL ETHER	<340
CHRYSENE	2,400
DIBENZ(a,h)ANTHRACENE	380
DIBENZOFURAN	<340
DI-n-BUTYLPHTHALATE	<340
1,3-DICHLOROBENZENE	<340
1,4-DICHLOROBENZENE	<340
1,2-DICHLOROBENZENE	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED.

CONTINUED ON PAGE 6

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79574	BC-18 SOIL ON 11/29/95 AT 15:50

PARAMETER	RESULT
ACID/BASE NEUTRALS, µg/kg (CONTINUED)	
3,3'-DICHLOROBENZIDINE	<340
2,4-DICHLOROPHENOL	<340
DIETHYLPHTHALATE	<340
2,4-DIMETHYLPHENOL	<340
DIMETHYLPHTHALATE	<340
4,6-DINITRO-2-METHYLPHENOL	<340
2,4-DINITROPHENOL	<340
2,4-DINITROTOLUENE	<340
2,6-DINITROTOLUENE	<340
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	<340
DI-n-OCTYLPHTHALATE	<340
FLUORANTHENE	5,000
FLUORENE	340
HEXACHLOROBENZENE	<340
HEXACHLOROCYCLOPENTADIENE	<340
HEXACHLOROETHANE	<340
INDENO(1,2,3-cd)PYRENE	1,500
ISOPHORONE	<340
2-METHYLNAPHTHALENE	<340
2-METHYLPHENOL	<340
4-METHYLPHENOL	<340
2-NITROANILINE	<340
3-NITROANILINE	<340
4-NITROANILINE	<340
NITROBENZENE	<340
2-NITROPHENOL	<340
4-NITROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED.

CONTINUED ON PAGE 7

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79574	BC-18 SOIL ON 11/29/95 AT 15:50

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg (CONTINUED)	
N-NITROSODIMETHYLAMINE	<340
N-NITROSODIPHENYLAMINE	<340
N-NITROSODIPROPYLAMINE	<340
PENTACHLOROPHENOL	<340
PHENANTHRENE	3,100
PHENOL	<340
PYRENE	3,500
PYRIDINE	<340
2,4,5-TRICHLOROPHENOL	<340
2,4,6-TRICHLOROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED.

CONTINUED ON PAGE 8

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79574	BC-18 SOIL ON 11/29/95 AT 15:50

QUALITY CONTROL SUMMARY

SURROGATE	% RECOVERY
VOLATILE ORGANICS	
1,2-DICHLOROETHANE-D4	97
TOLUENE-D8	101
4-BROMOFLUOROBENZENE	101
ACID/BASE NEUTRALS	
NITROBENZENE-D5	52
2-FLUOROBIPHENYL	53
TERPHENYL-D14	62
2-FLUOROPHENOL	52
PHENOL-D5	46
2,4,6-TRIBROMOPHENOL	66

NOTE: SURROGATE RECOVERIES ARE WITHIN CONTROL LIMITS UNLESS NOTED WITH AN ASTERISK.

CONTINUED ON PAGE 9

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79574	BC-18 SOIL ON 11/29/95 AT 15:50

ANALYSES CHRONOLOGY

PARAMETER	DATE/TIME ANALYZED	DATE EXTRACTED	METHOD#	ANALYST
ALUMINUM	12/02 @ 13:02	-----	6010	FERGUSON
ANTIMONY	11/30 @ 10:00	-----	"	"
ARSENIC	"	-----	"	"
BARIUM	"	-----	"	"
BERYLLIUM	"	-----	"	"
CADMIUM	"	-----	"	"
CALCIUM	12/02 @ 13:02	-----	"	"
CHROMIUM	11/30 @ 10:00	-----	"	"
COBALT	"	-----	"	"
COPPER	"	-----	"	"
IRON	12/02 @ 13:02	-----	"	"
LEAD	11/30 @ 10:00	-----	"	"
LITHIUM	"	-----	"	"
MAGNESIUM	"	-----	"	"
MANGANESE	"	-----	"	"
MERCURY	12/01 @ 10:45	-----	7471	LEAVITT
MOLYBDENUM	11/30 @ 10:00	-----	6010	FERGUSON
NICKEL	"	-----	"	"
PHOSPHORUS	"	-----	"	"
POTASSIUM	"	-----	"	"
SELENIUM	"	-----	"	"
SILVER	"	-----	"	"
SODIUM	12/02 @ 13:02	-----	"	"
THALLIUM	11/30 @ 10:00	-----	"	"
VANADIUM	"	-----	"	"
ZINC	"	-----	"	"
VOLATILES	12/02 @ 14:42	-----	8260	GIBSON
ACID/BASE	12/05 @ 04:27	11/30	8270	FRAMPTON
AND	12/05 @ 15:29	11/30	"	LYNCH

REPORTED BY: Sam W. Avery
SAM W. AVERY, LABORATORY MANAGER

CC: GENE McCALL (LWTM)

S&ME, Inc.
9751 Southern Pine Boulevard; Post Office Box 7668
Charlotte, North Carolina 28241-7668
(704) 523-4726 FAX: (704) 525-3953
NVLAP #102075

ASBESTOS BULK SAMPLE ANALYSIS*

Client: Gibbs & Reeves Date: 12-4-95

Job Name: Bessemer City Lab ID#: E2874 1

Job Number: 1264-95-506 Client Sample ID#: BC-10 2

Gross Sample Description: tan granular

Fiber: Straight/Stiff _____ Bundular _____ Regular _____

Morphology: Shredded/Irregular _____ Heliptical _____ Other _____

Fiber Type	Refrac. Index n =	Refrac. Index n _	Pleochroism Yes	Pleochroism No	Extinction Parallel	Extinction Oblique	Extinction Rolling	Extinction Isotropic	Sign of Elongation +	Sign of Elongation -	Dispersion Staining n =	Dispersion Staining n _
1												
2												
3												
4												

Asbestos:	T %	M	Other Fibrous Materials:	T %	M	Non-Fibrous Materials:	T %	M
Chrysotile			Fibrous Glass			Paint		
Amosite			Cellulose			Perlite		
Crocidolite			Synthetic			Binders		100
Tremolite			Cotton			Plaster/Masonry	100	
Anthophyllite			Mineral Wool			Bitumen		
Actinolite			Other _____			Other _____		
Total % Asbestos	nd	nd	Total % of Other Fibrous Material	nd	nd	Total % of Non-Fibrous Material	100	100

Comments: _____

*Samples were analyzed for asbestos content by Polarized Light Microscopy (PLM) coupled with dispersion staining. The percentage of each component is visually estimated. The analysis followed the procedure found in 40 CFR Ch. I, Pt. 763, subpart F, Appendix A.

Analyzed by: Chris Hartzell Laboratory QA/QC Director: Chris Hartzell

Note: The results pertain only to the sample identification above. The sample may not be fully representative of the larger material in question. Percentage values listed represent estimates rather than exact amounts. NVAP (National Voluntary boratory Accreditation Program). This sheet may not be reproduced except with permission from S&ME, Inc.

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9751 Southern Pine Boulevard; Post Office Box 7668
Charlotte, North Carolina 28241-7668
(704) 523-4726 FAX: (704) 525-3953
NVLAP #102075

ASBESTOS BULK SAMPLE ANALYSIS*

Client: Gibbs & Reeves Date: 12-4-95

Job Name: Bessemer City Lab ID#: E2874 O

Job Number: 1264-95-506 Client Sample ID#: BC-10 1

Gross Sample Description: grey fibrous

Fiber: Straight/Stiff _____ Bundular 1 Regular _____

Morphology: Shredded/Irregular _____ Heliptical _____ Other _____

Fiber Type	Refrac. Index n =	Refrac. Index n _	Pleochroism Yes	Pleochroism No	Extinction Parallel	Extinction Oblique	Extinction Rolling	Extinction Isotropic	Sign of Elongation +	Sign of Elongation -	Dispersion Staining n =	Dispersion Staining n _
Chrysotile	1.55	1.54		✓	✓				✓		mag	blue
2												
3												
4												

Asbestos:	%	Other Fibrous Materials:	%	Non-Fibrous Materials:	%
Chrysotile	45	Fibrous Glass		Paint	
Amosite		Cellulose		Perlite	
Crocidolite		Synthetic		Binders	
Tremolite		Cotton		Plaster/Masonry	55
Anthophyllite		Mineral Wool		Bitumen	
Actinolite		Other		Other	
Total % Asbestos	45	Total % of Other Fibrous Material	nd	Total % of Non-Fibrous Material	55

Comments: _____

*Samples were analyzed for asbestos content by Polarized Light Microscopy (PLM) coupled with dispersion staining. The percentage of each component is visually estimated. The analysis followed the procedure found in 40 CFR Ch. I, Pt. 763, subpart F, Appendix A.

Analyzed by: Chris Hartzell Laboratory QA/QC Director: Chris Hartzell

Note: The results pertain only to the sample identification above. The sample may not be fully representative of the larger material in question. Percentage values listed represent estimates rather than exact amounts. NVAP (National Voluntary aboratory Accreditation Program). This sheet may not be reproduced except with permission from S&ME, Inc.

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

DATE EXTRACTED: ___/___/___ ANALYST: _____

DATE ANALYZED: 12/2/95 ANALYST: CD

FRACTION	COMPOUND	CONC. SPIKE ADDED (µg/kg)	SAMPLE RESULT	CONC. MS	% REC.	CONC. MSD	% REC.	RPD	QC LIMITS RPD	QC LIMITS RECOVERY
VOA METHOD# 8260	1,1-DICHLOROETHENE	25	0	24.0	96	25.3	101	5	22	59-172
	BENZENE			23.4	93	24.0	96	3	21	66-142
SAMPLE# 79572	TRICHLOROETHENE			24.6	98	25.8	103	5	24	62-137
	TOLUENE			24.5	98	25.2	101	3	21	59-139
SS3MS	CHLOROBENZENE			26.9	108	27.4	110	2	21	60-133
B/N METHOD#	1,4-DICHLOROBENZENE								27	28-104
	N-NITROSODI-N-PROPYLAMINE								38	41-126
	1,2,4-TRICHLOROBENZENE								23	38-107
SAMPLE#	ACENAPHTHENE								19	31-137
	2,4-DINITROTOLUENE								47	28-89
	PYRENE								36	35-142
ACID METHOD#	2-CHLOROPHENOL								50	25-102
	PHENOL								35	26-90
SAMPLE#	4-CHLORO-3-METHYLPHENOL								33	26-103
	4-NITROPHENOL								50	11-114
	PENTACHLOROPHENOL								47	17-109
PEST METHOD#	LINDANE								50	46-127
	HEPTACHLOR								31	35-130
	ALDRIN								43	34-132
SAMPLE#	DIELDRIN								38	31-134
	ENDRIN								45	42-139
	4,4'-DDT								50	23-134

ADVISORY LIMITS:

RPD: VOAs 0 OUT OF 5 OUTSIDE QC LIMITS
B/N ___ OUT OF ___ OUTSIDE QC LIMITS
ACID ___ OUT OF ___ OUTSIDE QC LIMITS
PEST ___ OUT OF ___ OUTSIDE QC LIMITS

RECOVERY: VOAs 0 OUT OF 10 OUTSIDE QC LIMITS
B/N ___ OUT OF ___ OUTSIDE QC LIMITS
ACID ___ OUT OF ___ OUTSIDE QC LIMITS
PEST ___ OUT OF ___ OUTSIDE QC LIMITS

COMMENTS: _____

REVIEWED BY:

GC/GCMS LAB: INITIALS CD DATE 12/3/95
EXTRACTION LAB: INITIALS ___ DATE ___/___/___
QUALITY CONTROL: INITIALS BC DATE 12/5/95

CHAIN OF CUSTODY RECORD

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING • TESTING

P.O. No.: _____
Branch: _____
Department: _____

S&ME Job No.: 126495-506
Project Name: NC Gibbs/Reeves
Samplers: (signature) John Whitehead Jeff Lindsey Kimberly Gilreath

Station No.	Date	Time	Comp.	Grab		Number of Containers		VOC	BNA	Metals	TPH Gas	TPH Diesel	REMARKS
79565	11-29-95	1330			BC1- 5'	3		1	1	1*		1	*Cancel metals on 1st 6 six samples
79566	11-29-95	1345			BC1R .. 5'	3		1	1	1		1	per John Whitehead 11/30/95 AN
79567	11-29-95	1515			BC2 - 5'	3		1	1	1		1	Report to
79568	11-29-95	1605			BC-3 10'	3		1	1	1*		1	
79569	11-29-95	1630			BC4 5'	3		1	1	1*		1	John Whitehead
79570	11-29-95	1710			BC5 10'	3		1	1	1*	1		S&ME
79571	11-29-95	1615			BC15	2	a	1	1	1			155 Tradd St
79572	11-29-95	1500			BC 16	2		1	1	1			Spartanburg SC
79573	11-29-95	1530			BC 17	2		1	1	1			29301
79574	11-29-95	1550			BC 18	2		*1	1	1			
79575	11-29-95	1335			BC 19	1				1			803 574-2360
79576	11-29-95	1400			BC 20	1				1			803 576-8730
79577	11-29-95	1420			BC-21	1				1			

Relinquished by: (signature)	Date:	Time:	Received by: (signature)
John Whitehead	11-29-95	1907	Angela K Jones
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
Relinquished by: (signature)	Date:	Time:	Received by: (Signature)

Relinquished by: (signature)	Date:	Time:	Received by: (signature)
Relinquished by: (signature)	Date:	Time:	Received by: (signature)

Remarks
* RECEIVED BROKEN, & PLACED IN PLASTIC BAG

ROGERS & CALLCOTT
ENGINEERS, INC.
P.O. Box 5655, Greenville, SC 29606
Phone (803) 232-1556 • FAX (803) 233-9058

J. L. Rogers, P.E.
F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

CLIENT: S & ME
ATTENTION: MIKE MARCUS
155 TRADD STREET
SPARTANBURG, SC 29301

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79575	BC-19 SOIL ON 11/29/95 AT 13:35

PARAMETER	RESULT
TOTAL SOLIDS (AT TIME OF ANALYSES), %	82
TOTAL METALS	
ALUMINUM	22,000
ANTIMONY	<3.0
ARSENIC	<3.7
BARIUM	37
BERYLLIUM	<0.61
CADMIUM	<0.61
CALCIUM	1,000
CHROMIUM	12
COBALT	1.2
COPPER	17
IRON	20,000
LEAD	26
LITHIUM	8.0
MAGNESIUM	490
MANGANESE	80
MERCURY	<0.12

RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg) BASED ON DRY WEIGHT UNLESS OTHERWISE NOTED.

CONTINUED ON PAGE 2

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79575	BC-19 SOIL ON 11/29/95 AT 13:35

PARAMETER	RESULT
TOTAL METALS (CONTINUED)	
MOLYBDENUM	2.4
NICKEL	5.1
PHOSPHORUS	120
POTASSIUM	630
SELENIUM	<3.0
SILVER	<0.61
SODIUM	66
THALLIUM	<3.0
VANADIUM	28
ZINC	90

RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg) BASED ON DRY WEIGHT UNLESS OTHERWISE NOTED.

CONTINUED ON PAGE 3

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79575	BC-19 SOIL ON 11/29/95 AT 13:35

ANALYSES CHRONOLOGY

PARAMETER	DATE/TIME ANALYZED	METHOD#	ANALYST
ALUMINUM	12/02 @ 13:02	6010	FERGUSON
ANTIMONY	11/30 @ 10:00	"	"
ARSENIC	"	"	"
BARIUM	"	"	"
BERYLLIUM	"	"	"
CADMIUM	"	"	"
CALCIUM	"	"	"
CHROMIUM	"	"	"
COBALT	"	"	"
COPPER	"	"	"
IRON	12/02 @ 13:02	"	"
LEAD	11/30 @ 10:00	"	"
LITHIUM	"	"	"
MAGNESIUM	"	"	"
MANGANESE	"	"	"
MERCURY	12/01 @ 10:45	7471	LEAVITT
MOLYBDENUM	11/30 @ 10:00	6010	FERGUSON
NICKEL	"	"	"
PHOSPHORUS	"	"	"
POTASSIUM	"	"	"
SELENIUM	"	"	"
SILVER	"	"	"
SODIUM	12/02 @ 13:02	"	"
THALLIUM	11/30 @ 10:00	"	"
VANADIUM	"	"	"
ZINC	"	"	"

REPORTED BY: Sam W. Avery
SAM W. AVERY, LABORATORY MANAGER

CC: GENE McCALL (LWTM)

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79572	BC-16 SOIL ON 11/29/95 AT 15:00

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg (CONTINUED)	
3,3'-DICHLOROBENZIDINE	<340
2,4-DICHLOROPHENOL	<340
DIETHYLPHTHALATE	<340
2,4-DIMETHYLPHENOL	<340
DIMETHYLPHTHALATE	<340
4,6-DINITRO-2-METHYLPHENOL	<340
2,4-DINITROPHENOL	<340
2,4-DINITROTOLUENE	<340
2,6-DINITROTOLUENE	<340
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	<340
DI-n-OCTYLPHTHALATE	<340
FLUORANTHENE	<340
FLUORENE	<340
HEXACHLOROBENZENE	<340
HEXACHLOROCYCLOPENTADIENE	<340
HEXACHLOROETHANE	<340
INDENO(1,2,3-cd)PYRENE	<340
ISOPHORONE	<340
2-METHYLNAPHTHALENE	<340
2-METHYLPHENOL	<340
4-METHYLPHENOL	<340
2-NITROANILINE	<340
3-NITROANILINE	<340
4-NITROANILINE	<340
NITROBENZENE	<340
2-NITROPHENOL	<340
4-NITROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED.

CONTINUED ON PAGE 7

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79572	BC-16 SOIL ON 11/29/95 AT 15:00

PARAMETER	RESULT
ACID/BASE NEUTRALS, µg/kg (CONTINUED)	
N-NITROSODIMETHYLAMINE	<340
N-NITROSODIPHENYLAMINE	<340
N-NITROSODIPROPYLAMINE	<340
PENTACHLOROPHENOL	<340
PHENANTHRENE	<340
PHENOL	<340
PYRENE	<340
PYRIDINE	<340
2,4,5-TRICHLOROPHENOL	<340
2,4,6-TRICHLOROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED.

CONTINUED ON PAGE 8

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79572	BC-16 SOIL ON 11/29/95 AT 15:00

QUALITY CONTROL SUMMARY

SURROGATE	% RECOVERY
VOLATILE ORGANICS	
1,2-DICHLOROETHANE-D4	91
TOLUENE-D8	98
4-BROMOFLUOROBENZENE	108
ACID/BASE NEUTRALS	
NITROBENZENE-D5	55
2-FLUOROBIPHENYL	50
TERPHENYL-D14	58
2-FLUOROPHENOL	58
PHENOL-D5	58
2,4,6-TRIBROMOPHENOL	58

NOTE: SURROGATE RECOVERIES ARE WITHIN CONTROL LIMITS UNLESS NOTED WITH AN ASTERISK.

CONTINUED ON PAGE 9

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79572	BC-16 SOIL ON 11/29/95 AT 15:00

ANALYSES CHRONOLOGY

PARAMETER	DATE/TIME ANALYZED	DATE EXTRACTED	METHOD#	ANALYST
ALUMINUM	12/01 @ 09:07	-----	6010	FERGUSON
ANTIMONY	11/30 @ 10:00	-----	"	"
ARSENIC	"	-----	"	"
BARIUM	"	-----	"	"
BERYLLIUM	"	-----	"	"
CADMIUM	"	-----	"	"
CALCIUM	"	-----	"	"
CHROMIUM	"	-----	"	"
COBALT	"	-----	"	"
COPPER	"	-----	"	"
IRON	12/01 @ 09:07	-----	"	"
LEAD	11/30 @ 10:00	-----	"	"
LITHIUM	"	-----	"	"
MAGNESIUM	"	-----	"	"
MANGANESE	"	-----	"	"
MERCURY	12/01 @ 10:45	-----	7471	LEAVITT
MOLYBDENUM	11/30 @ 10:00	-----	6010	FERGUSON
NICKEL	"	-----	"	"
PHOSPHORUS	"	-----	"	"
POTASSIUM	"	-----	"	"
SELENIUM	"	-----	"	"
SILVER	"	-----	"	"
SODIUM	12/01 @ 09:07	-----	"	"
THALLIUM	11/30 @ 10:00	-----	"	"
VANADIUM	"	-----	"	"
ZINC	"	-----	"	"
VOLATILES	12/02 @ 11:48	-----	8260	GIBSON
ACID/BASE	12/05 @ 13:46	11/30	8270	LYNCH

REPORTED BY: Sam W. Avery
SAM W. AVERY, LABORATORY MANAGER

CC: GENE McCALL (LWTM)

CHAIN OF CUSTODY RECORD

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING • TESTING

P.O. No.: _____
Branch: _____
Department: _____

S&ME Job No.: 126495-506
Project Name: Gibbs / Reeves NC
Samplers: (signature) John Whitehead, John Whitehead, Jeff Lindsey, Kimberly Gilreath, Kimberly Gilreath

Station No.	Date	Time	Comp.	Grab		Number of Containers		VOC	BNA	Metals	TPH Gas	TPH Diesel	REMARKS
79565	11-29-95	1330			BC1 - 5'	3		1	1	1*		1	*Cancel metals on 1st 6 six samples
79566	11-29-95	1345			BC1R - 5'	3		1	1	1		1	per John Whitehead 11/30/95 AN
79567	11-29-95	1515			BC2 - 5'	3		1	1	1*		1	Report to
79568	11-29-95	1605			BC3 10'	3		1	1	1*		1	
79569	11-29-95	1630			BC4 5'	3		1	1	1*		1	John Whitehead
79570	11-29-95	1710			BC5 10'	3		1	1	1*	1		S&ME
79571	11-29-95	1615			BC15	2	a	1	1	1			155 Tradd St
79572	11-29-95	1500			BC16	2	a	1	1	1			Spartanburg SC
79573	11-29-95	1530			BC17	2	a	1	1	1			29301
79574	11-29-95	1550			BC18	2	a	*1	1	1			
79575	11-29-95	1335			BC19	1				1			803 574-2360
79576	11-29-95	1400			BC20	1				1			803 576-8730
79577	11-29-95	1420			BC-21	1				1			

Relinquished by: (signature)	Date:	Time:	Received by: (signature)	Relinquished by: (signature)	Date:	Time:	Received by: (signature)
John Whitehead	11-29-95	1907	Angela K Jones				
Relinquished by: (signature)	Date:	Time:	Received by: (signature)	Relinquished by: (signature)	Date:	Time:	Received by: (signature)
Relinquished by: (signature)	Date:	Time:	Received by: (Signature)	Remarks			
				* RECEIVED BROKEN, & PLACED IN PLASTIC BAG VOA sample taken out of ABN Bottle			

This document was prepared pursuant to a specific agreement to address the unique requirements of an S&ME client. Prior to further use, an S&ME professional should be

S&ME SFP-004

ROGERS & CALLCOTT ENGINEERS, INC.
P.O. Box 5655, Greenville, SC 29606
Phone (803) 232-1556 • FAX (803) 233-9058

J. L. Rogers, P.E.
F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

CLIENT: S & ME
ATTENTION: MIKE MARCUS
155 TRADD STREET
SPARTANBURG, SC 29301

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79573	BC-17 SOIL ON 11/29/95 AT 15:30

PARAMETER	RESULT
TOTAL SOLIDS (AT TIME OF ANALYSES), %	78
TOTAL METALS	
ALUMINUM	32,000
ANTIMONY	<3.2
ARSENIC	<3.2
BARIUM	24
BERYLLIUM	<0.64
CADMIUM	<0.64
CALCIUM	1,900
CHROMIUM	21
COBALT	<0.64
COPPER	19
IRON	32,000
LEAD	4.9
LITHIUM	12
MAGNESIUM	490
MANGANESE	42
MERCURY	<0.13

RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg) BASED ON DRY WEIGHT UNLESS OTHERWISE NOTED.

CONTINUED ON PAGE 2

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79573	BC-17 SOIL ON 11/29/95 AT 15:30

PARAMETER	RESULT
TOTAL METALS (CONTINUED)	
MOLYBDENUM	3.7
NICKEL	5.5
PHOSPHORUS	120
POTASSIUM	790
SELENIUM	<3.2
SILVER	<0.64
SODIUM	92
THALLIUM	<3.2
VANADIUM	58
ZINC	11

RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg) BASED ON DRY WEIGHT UNLESS OTHERWISE NOTED.

CONTINUED ON PAGE 3

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79573	BC-17 SOIL ON 11/29/95 AT 15:30

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg	
BENZENE	<10
BROMOBENZENE	<10
BROMOCHLOROMETHANE	<10
BROMODICHLOROMETHANE	<10
BROMOFORM	<10
BROMOMETHANE	<10
n-BUTYLBENZENE	<10
sec-BUTYLBENZENE	<10
tert-BUTYLBENZENE	<10
CARBON TETRACHLORIDE	<10
CHLOROBENZENE	<10
CHLOROETHANE	<10
CHLOROFORM	<10
CHLOROMETHANE	<10
2-CHLOROTOLUENE	<10
4-CHLOROTOLUENE	<10
DIBROMOCHLOROMETHANE	<10
1,2-DIBROMO-3-CHLOROPROPANE	<10
1,2-DIBROMOETHANE	<10
DIBROMOMETHANE	<10
1,2-DICHLOROBENZENE	<10
1,3-DICHLOROBENZENE	<10
1,4-DICHLOROBENZENE	<10
DICHLORODIFLUOROMETHANE	<10
1,1-DICHLOROETHANE	<10
1,2-DICHLOROETHANE	<10
1,1-DICHLOROETHENE	<10
cis-1,2-DICHLOROETHENE	<10

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED.

CONTINUED ON PAGE 4

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79573	BC-17 SOIL ON 11/29/95 AT 15:30

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg (CONTINUED)	
trans-1,2-DICHLOROETHENE	<10
1,2-DICHLOROPROPANE	<10
1,3-DICHLOROPROPANE	<10
2,2-DICHLOROPROPANE	<10
1,1-DICHLOROPROPENE	<10
ETHYLBENZENE	<10
HEXACHLOROBUTADIENE	<10
ISOPROPYLBENZENE	<10
p-ISOPROPYLTOLUENE	<10
METHYLENE CHLORIDE	<10
NAPHTHALENE	<10
n-PROPYLBENZENE	<10
STYRENE	<10
1,1,1,2-TETRACHLOROETHANE	<10
1,1,2,2-TETRACHLOROETHANE	<10
TETRACHLOROETHENE	<10
TOLUENE	<10
1,2,3-TRICHLOROBENZENE	<10
1,2,4-TRICHLOROBENZENE	<10
1,1,1-TRICHLOROETHANE	<10
1,1,2-TRICHLOROETHANE	<10
TRICHLOROETHENE	<10
TRICHLOROFLUOROMETHANE	<10
1,2,3-TRICHLOROPROPANE	<10
1,2,4-TRIMETHYLBENZENE	<10
1,3,5-TRIMETHYLBENZENE	<10
VINYL CHLORIDE	<10
o-XYLENE	<10
m/p-XYLENE	<20

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED.

CONTINUED ON PAGE 5

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79573	BC-17 SOIL ON 11/29/95 AT 15:30

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg	
ACENAPHTHENE	<340
ACENAPHTHYLENE	<340
ANILINE	<340
ANTHRACENE	<340
BENZO(a)ANTHRACENE	<340
BENZO(b/k)FLUORANTHENE	<670
BENZO(g,h,i)PERYLENE	<340
BENZO(a)PYRENE	<340
BENZYL ALCOHOL	<340
BIS(2-CHLOROETHOXY)METHANE	<340
BIS(2-CHLOROETHYL)ETHER	<340
BIS(2-CHLOROISOPROPYL)ETHER	<340
BIS(2-ETHYLHEXYL)PHTHALATE	380
4-BROMOPHENYL PHENYL ETHER	<340
BUTYL BENZYL PHTHALATE	<340
4-CHLOROANILINE	<340
2-CHLORONAPHTHALENE	<340
4-CHLORO-3-METHYLPHENOL	<340
2-CHLOROPHENOL	<340
4-CHLOROPHENYL PHENYL ETHER	<340
CHRYSENE	<340
DIBENZ(a,h)ANTHRACENE	<340
DIBENZOFURAN	<340
DI-n-BUTYLPHTHALATE	<340
1,3-DICHLOROBENZENE	<340
1,4-DICHLOROBENZENE	<340
1,2-DICHLOROBENZENE	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED.

CONTINUED ON PAGE 6

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79573	BC-17 SOIL ON 11/29/95 AT 15:30

PARAMETER	RESULT
ACID/BASE NEUTRALS, µg/kg (CONTINUED)	
3,3'-DICHLOROBENZIDINE	<340
2,4-DICHLOROPHENOL	<340
DIETHYLPHTHALATE	<340
2,4-DIMETHYLPHENOL	<340
DIMETHYLPHTHALATE	<340
4,6-DINITRO-2-METHYLPHENOL	<340
2,4-DINITROPHENOL	<340
2,4-DINITROTOLUENE	<340
2,6-DINITROTOLUENE	<340
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	<340
DI-n-OCTYLPHTHALATE	<340
FLUORANTHENE	<340
FLUORENE	<340
HEXACHLOROBENZENE	<340
HEXACHLOROCYCLOPENTADIENE	<340
HEXACHLOROETHANE	<340
INDENO(1,2,3-cd)PYRENE	<340
ISOPHORONE	<340
2-METHYLNAPHTHALENE	<340
2-METHYLPHENOL	<340
4-METHYLPHENOL	<340
2-NITROANILINE	<340
3-NITROANILINE	<340
4-NITROANILINE	<340
NITROBENZENE	<340
2-NITROPHENOL	<340
4-NITROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED.

CONTINUED ON PAGE 7

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79573	BC-17 SOIL ON 11/29/95 AT 15:30

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg (CONTINUED)	
N-NITROSODIMETHYLAMINE	<340
N-NITROSODIPHENYLAMINE	<340
N-NITROSODIPROPYLAMINE	<340
PENTACHLOROPHENOL	<340
PHENANTHRENE	<340
PHENOL	<340
YRENE	<340
PYRIDINE	<340
2,4,5-TRICHLOROPHENOL	<340
2,4,6-TRICHLOROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED.

CONTINUED ON PAGE 8

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79573	BC-17 SOIL ON 11/29/95 AT 15:30

QUALITY CONTROL SUMMARY

SURROGATE	% RECOVERY
VOLATILE ORGANICS	
1,2-DICHLOROETHANE-D4	93
TOLUENE-D8	96
4-BROMOFLUOROBENZENE	104
ACID/BASE NEUTRALS	
NITROBENZENE-D5	50
2-FLUOROBIPHENYL	44
TERPHENYL-D14	55
2-FLUOROPHENOL	52
PHENOL-D5	52
2,4,6-TRIBROMOPHENOL	44

NOTE: SURROGATE RECOVERIES ARE WITHIN CONTROL LIMITS UNLESS NOTED WITH AN ASTERISK.

CONTINUED ON PAGE 9

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79573	BC-17 SOIL ON 11/29/95 AT 15:30

ANALYSES CHRONOLOGY

PARAMETER	DATE/TIME ANALYZED	DATE EXTRACTED	METHOD#	ANALYST
ALUMINUM	12/02 @ 13:02	-----	6010	FERGUSON
ANTIMONY	11/30 @ 10:00	-----	"	"
ARSENIC	"	-----	"	"
BARIUM	"	-----	"	"
BERYLLIUM	"	-----	"	"
CADMIUM	"	-----	"	"
CALCIUM	12/02 @ 13:02	-----	"	"
CHROMIUM	11/30 @ 10:00	-----	"	"
COBALT	"	-----	"	"
COPPER	"	-----	"	"
IRON	12/02 @ 13:02	-----	"	"
LEAD	11/30 @ 10:00	-----	"	"
LITHIUM	"	-----	"	"
MAGNESIUM	"	-----	"	"
MANGANESE	"	-----	"	"
MERCURY	12/01 @ 10:45	-----	7471	LEAVITT
MOLYBDENUM	11/30 @ 10:00	-----	6010	FERGUSON
NICKEL	"	-----	"	"
PHOSPHORUS	"	-----	"	"
POTASSIUM	"	-----	"	"
SELENIUM	"	-----	"	"
SILVER	"	-----	"	"
SODIUM	12/02 @ 13:02	-----	"	"
THALLIUM	11/30 @ 10:00	-----	"	"
VANADIUM	"	-----	"	"
ZINC	"	-----	"	"
VOLATILES	12/02 @ 13:49	-----	8260	GIBSON
ACID/BASE	12/05 @ 13:46	11/30	8270	LYNCH

REPORTED BY: Sam W. Avery
SAM W. AVERY, LABORATORY MANAGER

CC: GENE McCALL (LWTM)

ROGERS & CALLCOTT
ENGINEERS, INC.
P.O. Box 5655, Greenville, SC 29606
Phone (803) 232-1556 • FAX (803) 233-9058

J. L. Rogers, P.E.
F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

NC DEPT OF ENVIRONMENT, HEALTH & NATURAL RESOURCES
NOV 1995
DIVISION OF ENVIRONMENTAL MANAGEMENT
HYDROLOGY/GROUND WATER OFFICE

Rec. GW 11/20/96

December 6, 1995

Project : S & ME
Job # : 1264-95-506
Method # : 8270

QUALITY CONTROL DATA QUALIFIER

The following samples were found to contain Bis(2-Ethylhexyl)Phthalate (BEHP), a common laboratory extraction contaminant. BEHP was also detected in the associated method blank (95-11-30-31) at 570 μg/kg. Results in this range should be considered suspect.

Sample#	Sample Identification	Bis(2-Ethylhexyl)Phthalate, μg/kg
79561	W-13	440
79565	BC1-5'	370
79568	BC3-10'	800
79571	BC-15	600
79572	BC-16	570
79573	BC-17	380

EPA recognizes that Bis(2-Ethylhexyl)Phthalate is a common laboratory extraction contaminant and recommends that extraction blanks should not exceed five times the detection limit. The blank level of 570 μg/kg falls within these guidelines.

J.L. ROGERS AND CALLCOTT ENGINEERS, INC.

Sam W. Avery
Laboratory Director

SWA/scp

TABLE 8

SUMMARY OF TPH AND VOLATILE ORGANIC ANALYSIS
PHASE II ENVIRONMENTAL SURVEY
OSAGE PLANT
BESSEMER CITY, NORTH CAROLINA
S&ME PROJECT NO. 1264-95-506

ANALYTE	SAMPLE ID					
	BC1-5	BC1B-5	BC2-5	BC3-10	BC4-5	BC5-10
TPH Diesel	**1,300**	ND	**41**	ND	ND	NA
TPH Gas	NA	NA	ND	NA	NA	ND
n-Butylbenzne	**140**	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	**160**	ND	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	**11**	ND	ND	ND
Naphthalene	**500**	ND	**170**	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	**47**	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	**27**	ND	ND	ND

NOTES:
1. TPH results are expressed in miligrams per kilogram (mg/kg) and volatile organics results are expressed in micrograms per kilogram (µg/kg).
2. ND = Not detected above laboratory detection limits. Please see individual laboratory reports for specific detection limits.
3. NA = Not Analyzed

APPENDIX C

TEST BORING RECORDS/HAND AUGER BORING SUMMARIES
PHASE II SURVEY
OSAGE PLANT
BESSEMER CITY, NORTH CAROLINA
S&ME PROJECT NO. 1264-95-506

LEGEND TO SOIL CLASSIFICATION AND SYMBOLS

SOIL TYPES

(Shown in Graphic Log)

- Asphalt/Concrete
- Topsoil
- Gravel
- Sand
- Silt
- Clay
- Organic
- Sandy
- Silty
- Clayey
- Silty Sand
- Clayey Sand
- Sandy Silt
- Clayey Silt
- Sandy Clay
- Silty Clay
- Partially Weathered Rock
- Cored Rock

WATER LEVELS

(Shown in Water Level Column)

- = Water Level At Termination Of Boring
- = Water Level Taken After 24 Hours
- = Loss Of Drilling Water
- HC = Hole Cave

CONSISTENCY OF COHESIVE SOILS

CONSISTENCY	STD. PENETRATION RESISTANCE BLOWS/FOOT
Very Soft	0 to 2
Soft	3 to 4
Firm	5 to 8
Stiff	9 to 15
Very Stiff	16 to 30
Hard	31 to 50
Very Hard	Over 50

RELATIVE DENSITY OF COHESIONLESS SOILS

RELATIVE DENSITY	STD. PENETRATION RESISTANCE BLOWS/FOOT
Very Loose	0 to 4
Loose	5 to 10
Medium Dense	11 to 30
Dense	31 to 50
Very Dense	Over 50

SAMPLER TYPES

(Shown in Samples Column)

- Shelby Tube
- Split Spoon
- Rock Core
- No Recovery

TERMS

Standard Penetration Resistance - The Number of Blows of 140 lb. Hammer Falling 30 in. Required to Drive 1.4 in. I.D. Split Spoon Sampler 1 Foot. As Specified in ASTM D-1586

REC - Total Length of Rock Recovered in the Core Barrel Divided by the Total Length of the Core Run Times 100%.

RQD - Total Length of Sound Rock Segments Recovered that are Longer Than or Equal to 4" (mechanical breaks exluded) Divided by the Total Length of the Core Run Times 100%.

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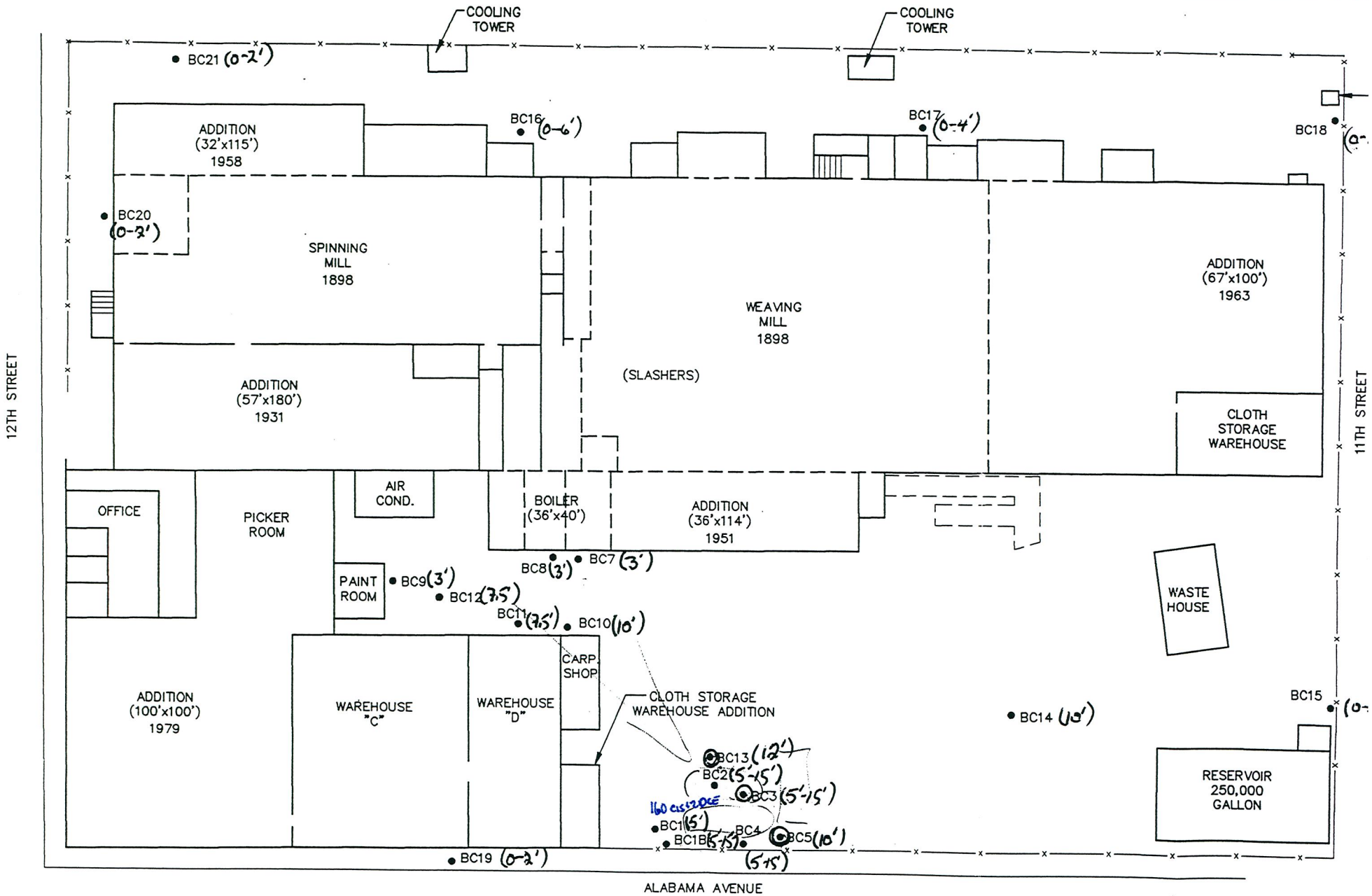

LEGEND

• BC9 APPROXIMATE PHASE II SAMPLE LOCATION

SCALE
0 FEET 50

SCALE:	AS SHOWN
CHECKED BY:	SW
DRAWN BY:	SB
DATE:	12-01-95

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SITE PLAN
REEVES INDUS
OSAGE PLA
BESSEMER CITY, NORTH

JOB NO: 1264-9

PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC1

PROJECT NO. :	1264-95-506	ELEVATION:	
LOGGED BY:	K. Gilreath	BORING DEPTH:	5 FEET
DATE DRILLED:	11/29/95	WATER LEVEL:	Not Encountered @ TOB
DRILLING METHOD:	3.25" HSA	DRILL RIG:	CME-45

NOTES:

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft) 10 30 50 70 90	BPF
		Loose black brown silty fine to medium **SAND** (strong petroleum odor and staining)	9		☒			7
5		*Obstruction at 5 feet*						
10								
15								
20								
25								
30								
35								

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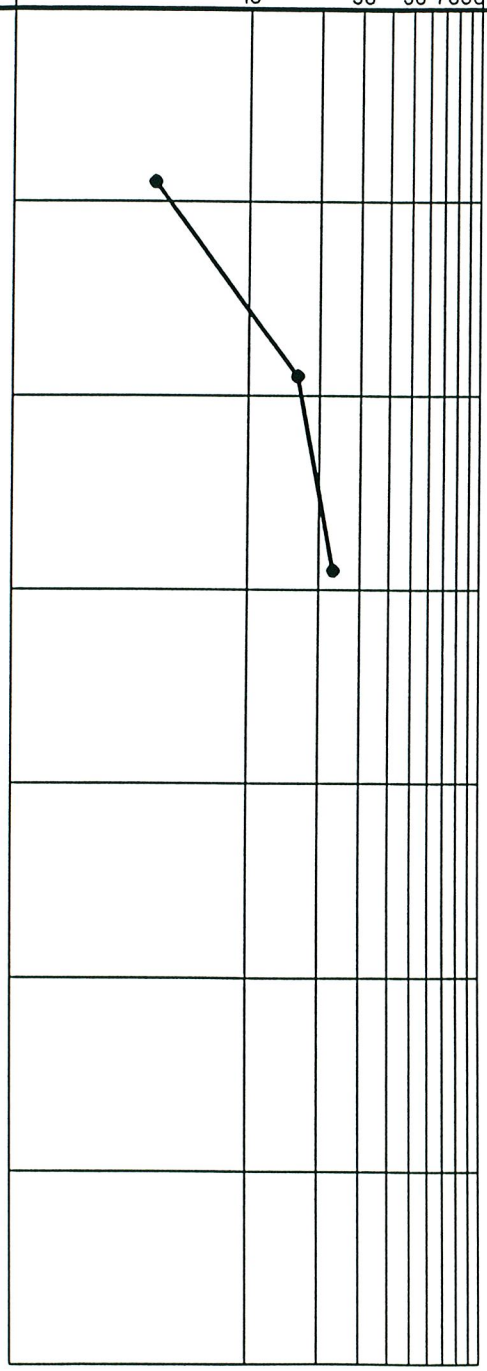
PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC1B
PROJECT NO. : 1264-95-506	ELEVATION:	NOTES:	
LOGGED BY: K. Gilreath	BORING DEPTH: 15 FEET		
DATE DRILLED: 11/29/95	WATER LEVEL: Not Encountered @ TOB		
DRILLING METHOD: 3.25" HSA	DRILL RIG: CME-45		

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft)	BPF
		Black silty fine to medium **SAND** (strong petroleum odor and staining						
5		Soft orange brown fine sandy silty **CLAY** with black staining	9		☒			4
10		Very stiff red-orange-brown fine sandy silty **CLAY**	4		☒			16
15		No recovery in split spoon. From cuttings - Red-tan-brown slightly clayey fine sandy **SILT**						23
		Boring terminated at 15 feet						
20								
25								
30								
35								



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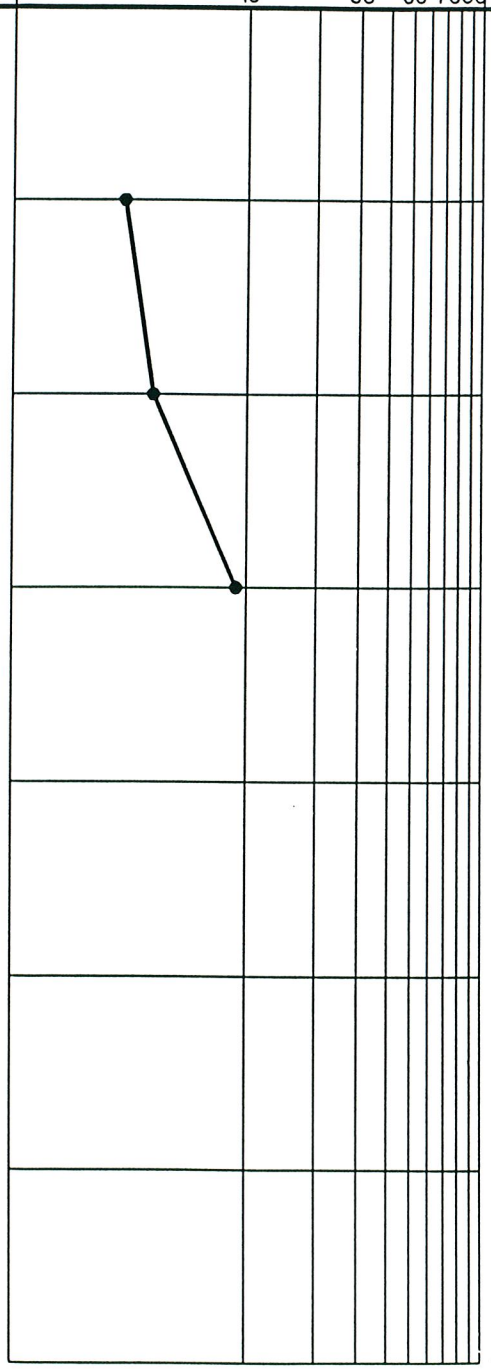
PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC2
PROJECT NO.: 1264-95-506	ELEVATION:	NOTES:	
LOGGED BY: K. Gilreath	BORING DEPTH: 15 FEET		
DATE DRILLED: 11/29/95	WATER LEVEL: Not Encountered @ TOB		
DRILLING METHOD: 3.25" HSA	DRILL RIG: CME-45		

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft)	BPF
		Soft orange-brown fine sandy silty **CLAY** with black staining and pieces of coal						
5			200		X			3
10		Saprolite - Stiff red-tan-brown-white fine sandy **SILT**	60		X			4
15			20		X			9
		Boring terminated at 15 feet						
20								
25								
30								
35								



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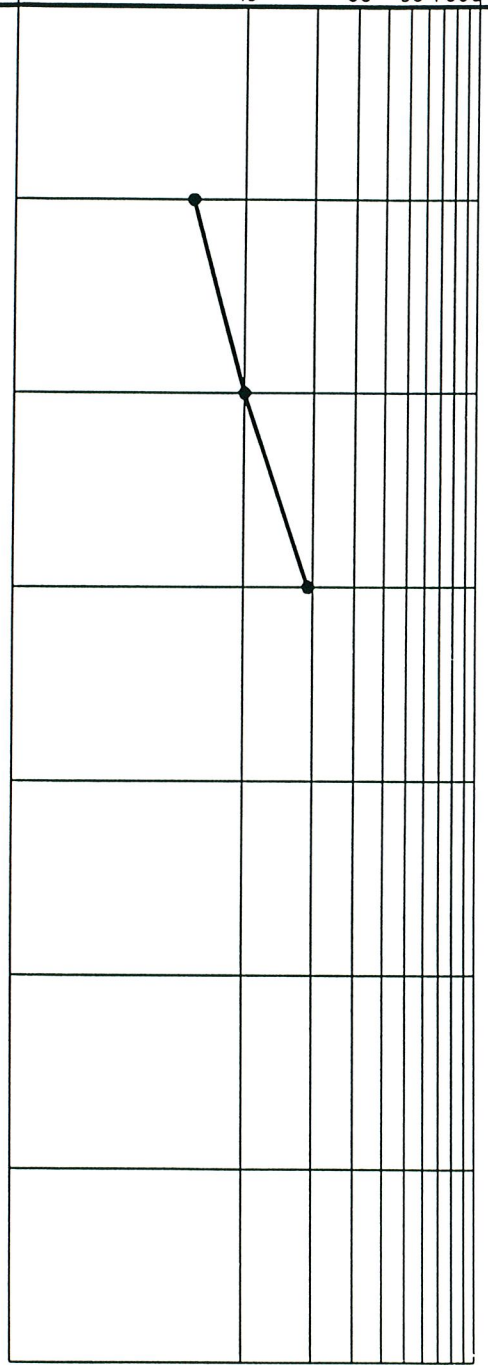
PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC3
PROJECT NO.: 1264-95-506	ELEVATION:	NOTES:	
LOGGED BY: K. Gilreath	BORING DEPTH: 15 FEET		
DATE DRILLED: 11/29/95	WATER LEVEL: Not Encountered @ TOB		
DRILLING METHOD: 3.25" HSA	DRILL RIG: CME-45		

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft)	BPF
		Coal fines						
5		Firm red-brown silty **CLAY**	0		X			6
10		Stiff red-brown micaceous fine sandy **SILT**	205		X			10
15		Saprolite - Very stiff red-tan-brown-white fine sandy **SILT**	185		X			19
		Boring terminated at 15 feet						
20								
25								
30								
35								



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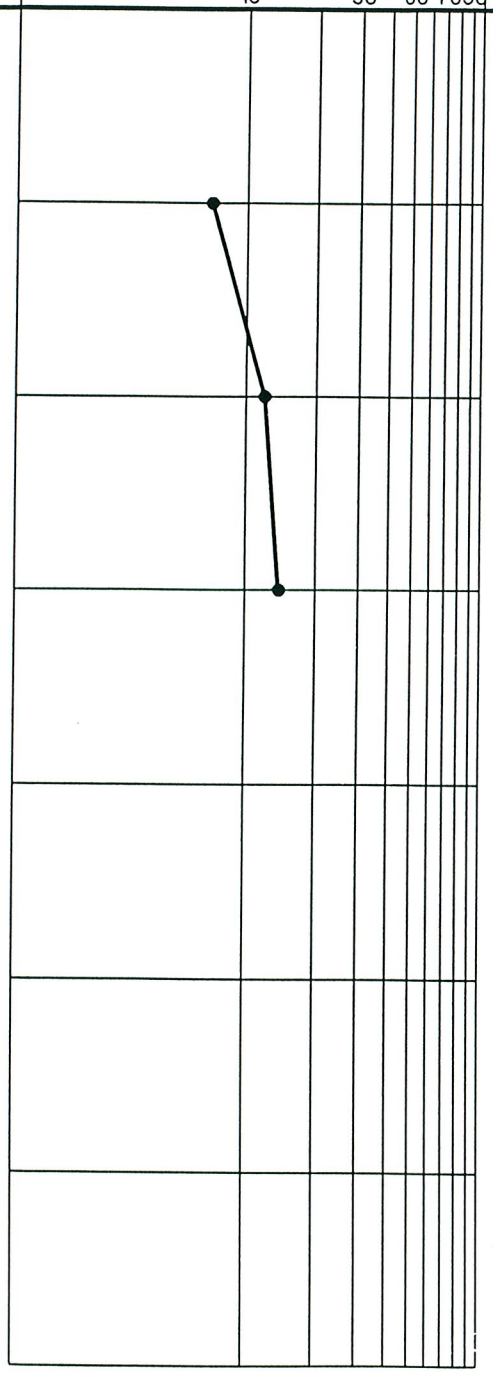
PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC4
PROJECT NO. : 1264-95-506	ELEVATION:	NOTES:	
LOGGED BY: K. Gilreath	BORING DEPTH: 15 FEET		
DATE DRILLED: 11/29/95	WATER LEVEL: Not Encountered @ TOB		
DRILLING METHOD: 3.25" HSA	DRILL RIG: CME-45		

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft)	BPF
		Firm tan-brown fine sandy silty **CLAY**						
5			316		X			7
					X			
10		Saprolite - Stiff red-tan-brown-white fine sandy **SILT**	80					12
					X			
15			79					14
		Boring terminated at 15 feet						
20								
25								
30								
35								



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PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC5

PROJECT NO. :	1264-95-506	ELEVATION:	
LOGGED BY:	K. Gilreath	BORING DEPTH:	10 FEET
DATE DRILLED:	11/29/95	WATER LEVEL:	Not Encountered @ TOB
DRILLING METHOD:	3.25" HSA	DRILL RIG:	CME-45

NOTES:
Split spoons were pushed hydraulically because of overhead obstructions.

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft) 10 30 50 70 90	BPF
		Red-brown silty **CLAY**						
5			0		X			
		Saprolite - Red-tan-brown-white fine sandy **SILT**						
10			5		X			
		Boring terminated at 10 feet						
15								
20								
25								
30								
35								

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PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC7

PROJECT NO. :	1264-95-506	ELEVATION:	
LOGGED BY:	J. Lindsey	BORING DEPTH:	3 FEET
DATE DRILLED:	11/30/95	WATER LEVEL:	Not Encountered @ TOB
DRILLING METHOD:	3.25" HSA	DRILL RIG:	CME-45

NOTES:

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft) 10 30 50 70 90	BPF
		Coal fines						
		Red-brown-orange fine sandy silty **CLAY**						
5		*Boring terminated at 3 feet*						
10								
15								
20								
25								
30								
35								

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PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	EC8
PROJECT NO. : 1264-95-506	ELEVATION:	NOTES:	
LOGGED BY: J. Lindsey	BORING DEPTH: 3 FEET		
DATE DRILLED: 11/30/95	WATER LEVEL: Not Encountered @ TOB		
DRILLING METHOD: 3.25" HSA	DRILL RIG: CME-45		

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft) 10 30 50 70 90	BPF
		Coal fines						
		Firm red-brown-orange fine sandy silty **CLAY**	0		X			6
5		*Boring terminated at 3 feet*						
10								
15								
20								
25								
30								
35								

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PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC9
PROJECT NO. :	1264-95-506	ELEVATION:	NOTES:
LOGGED BY:	J. Lindsey	BORING DEPTH: 3 FEET	
DATE DRILLED:	11/30/95	WATER LEVEL: Not Encountered @ TOB	
DRILLING METHOD:	3.25" HSA	DRILL RIG: CME-45	

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft) 10 30 50 70 90	BPF
		Coal fines						
		Soft red-brown-orange fine sandy silty **CLAY**	0		☒			4
5		*Boring terminated at 3 feet*						
10								
15								
20								
25								
30								
35								

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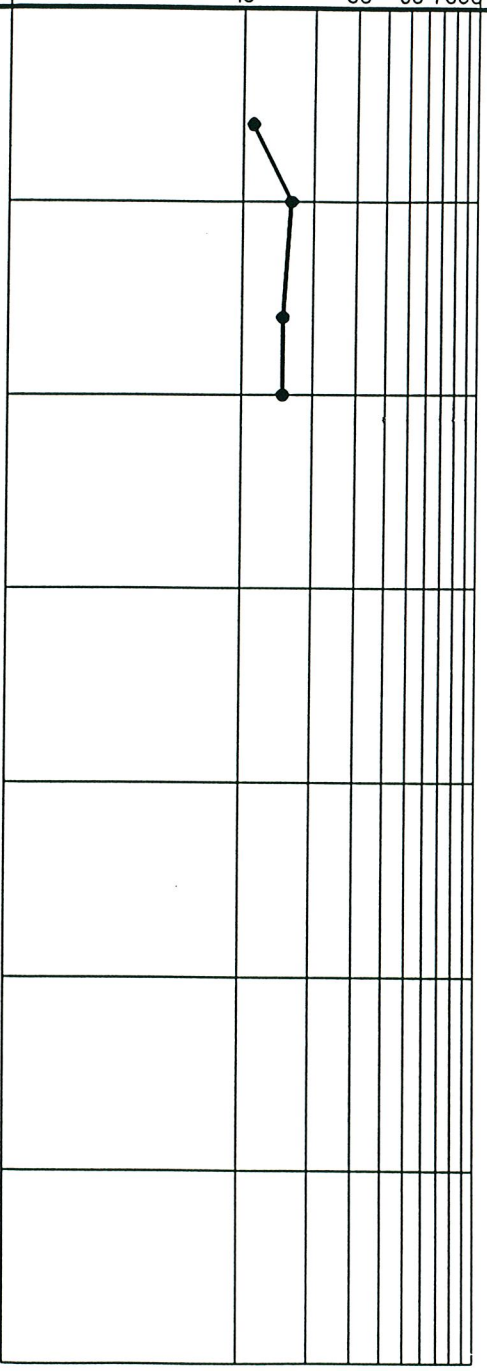
PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC10
PROJECT NO.: 1264-95-506	ELEVATION:	NOTES:	
LOGGED BY: J. Lindsey	BORING DEPTH: 10 FEET		
DATE DRILLED: 11/30/95	WATER LEVEL: Not Encountered @ TOB		
DRILLING METHOD: 3.25" HSA	DRILL RIG: CME-45		

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	BPF
		Stiff gray fine sandy clayey **SILT** with coal fine					
		Stiff to very stiff red-brown-orange fine sandy silty **CLAY**	0		X		11
5			0		X		16
		Stiff red-brown fine sandy **SILT**	0		X		15
10			0		X		15
		Boring terminated at 10 feet					
15							
20							
25							
30							
35							

Standard Penetration Test Data (Blows/ft)



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PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC11

PROJECT NO.:	1264-95-506	ELEVATION:	
LOGGED BY:	J. Lindsey	BORING DEPTH:	7.5 FEET
DATE DRILLED:	11/30/95	WATER LEVEL:	Not Encountered @ TOB
DRILLING METHOD:	3.25" HSA	DRILL RIG:	CME-45

NOTES:
Split spoons were pushed hydraulically because of overhead obstructions

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft) 10 30 50 70 90	BPF
		Gray fine sandy clayey **SILT** with coal fines						
5		Red-brown-orange fine sandy silty **CLAY**						
		Red-brown fine sandy clayey **SILT**						
10		*Boring terminated at 7.5 feet*						
15								
20								
25								
30								
35								

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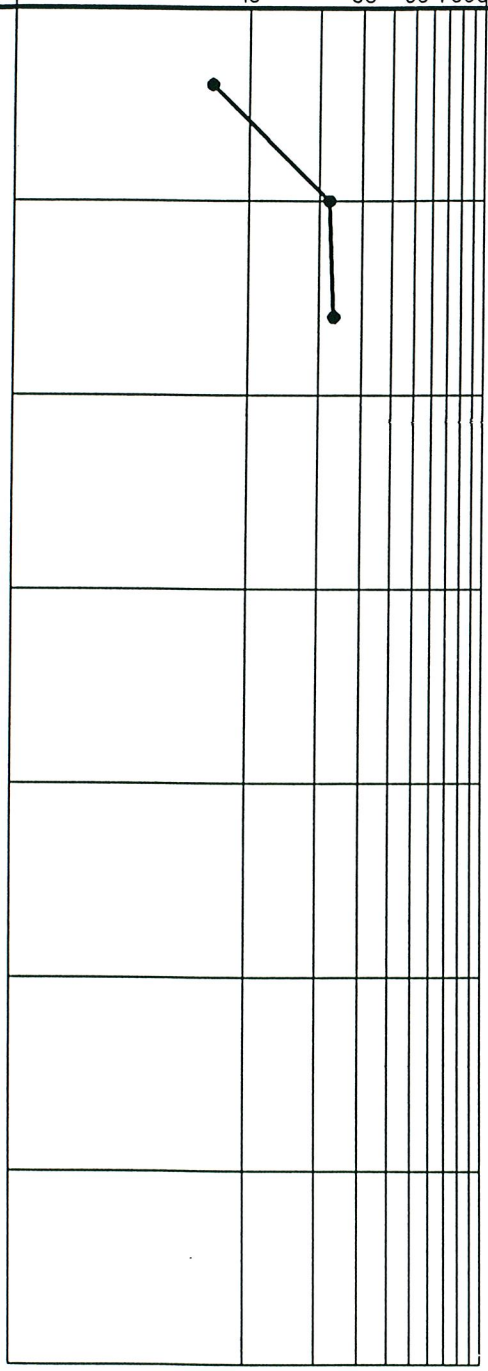
PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC12
PROJECT NO.: 1264-95-506	ELEVATION:	NOTES:	
LOGGED BY: J. Lindsey	BORING DEPTH: 7.5 FEET		
DATE DRILLED: 11/30/95	WATER LEVEL: Not Encountered @ TOB		
DRILLING METHOD: 3.25" HSA	DRILL RIG: CME-45		

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft)	BPF
		Firm brown slightly sandy clayey **SILT** with gravel and coal fines			☒			7
5		Very stiff red-brown-orange fine sandy silty **CLAY** with coal pieces			☒			22
10		Very stiff red-brown-orange slightly clayey fine sandy **SILT**			☒			23
		Boring terminated at 7.5 feet						
15								
20								
25								
30								
35								



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PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC13

PROJECT NO.:	1264-95-506	ELEVATION:	
LOGGED BY:	K. Gilreath	BORING DEPTH:	12 FEET
DATE DRILLED:	11/30/95	WATER LEVEL:	Not Encountered @ TOB
DRILLING METHOD:	3.25" HSA	DRILL RIG:	CME-45

NOTES:

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft) 10 30 50 70 90	BPF
		Asphalt to 3 inches Coal Fine						
5		Gray-tan silty **CLAY**						
		Very stiff-orange-tan fine sandy **SILT**						
10			0		X			23
		Boring terminated at 12 feet						
15								
20								
25								
30								
35								

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PROJECT:	Gibbs/Reeves Osage Plant	TEST BORING RECORD	BC14
PROJECT NO.: 1264-95-506	ELEVATION:	NOTES:	
LOGGED BY: K. Gilreath	BORING DEPTH: 10 FEET		
DATE DRILLED: 11/30/95	WATER LEVEL: Not Encountered @ TOB		
DRILLING METHOD: 3.25" HSA	DRILL RIG: CME-45		

DEPTH (ft)	GRAPHIC LOG	Soil Description	OVM (ppm)	WATER LEVEL	SAMPLE	ELEV.	Standard Penetration Test Data (Blows/ft) 10 30 50 70 90	BPF
		Asphalt = 3 inches						
		Red-brown-orange fine sandy **SILT**						
5								
		Very stiff red-tan-brown-white fine sandy **SILT**	0		X			21
10		*Boring terminated at 10 feet*						
15								
20								
25								
30								
35								

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SUMMARY OF HAND AUGER BORING

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ENVIRONMENTAL SERVICES
ENGINEERING • TESTING

Project Name Gibbs/Reeves - Osage Plant

Job No. 1264-95-506

DATE	TEST LOCATION	DEPTH FEET	STRATIFICATION SOIL DESCRIPTION	Dynamic Cone Penetrometer Resistance DEPTH (FEET)	HAMMER BLOWS INCREMENT 1st	2nd	3rd	AVERAGE
11/29/95	BC15	0 - 2.5'	Brown fine sandy clayey **SILT** with some staining					
11/29/95	BC16	0 - 2' 0 - 6'	Fill - Tan brown fine sandy clayey **SILT** Red brown fine sandy clayey **SILT**					
11/29/95	BC17	0 - 2' 0 - 4'	Fill - Tan brown fine sandy clayey **SILT** Red brown fine sandy clayey **SILT**					
11/29/95	BC18	0 - 0.5' 0.5-2.0'	Top soil Red brown fine sandy clayey **SILT** with some staining					
11/29/95	BC19	0 - 2'	Red brown fine sandy clayey **SILT**					
11/29/95	BC20	0 - 2'	Red brown fine sandy clayey **SILT**					
11/29/95	BC21	0 - 2'	Red brown fine sandy clayey **SILT**					

APPENDIX D

LABORATORY REPORTS
PHASE II SURVEY
OSAGE PLANT
BESSEMER CITY, NORTH CAROLINA
S&ME PROJECT NO. 1264-95-506

ROGERS & CALLCOTT
ENGINEERS, INC.
P.O. Box 5655, Greenville, SC 29606
Phone (803) 232-1556 • FAX (803) 233-9058

J. L. Rogers, P.E.
F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

CLIENT: S & ME
ATTENTION: MIKE MARCUS
155 TRADD STREET
SPARTANBURG, SC 29301

DATE RECEIVED: 12/01/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
	PAINT CHIPS
79717	BC-201 OFFICE AREA, MEN'S R.R. GRAB ON 12/01/95
79718	BC-202 PICKER ROOM GRAB ON 12/01/95
79719	BC-203 WINDING CANTEEN GRAB ON 12/01/95
79720	BC-204 SPINNING MILL GRAB ON 12/01/95

PARAMETER	RESULT			
TOTAL METALS	79717	79718	79719	79720
LEAD, mg/kg	770	<25	590	8,800

NOTE: LEAD RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 2

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 12/01/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
	PAINT CHIPS
79721	BC-205 SPINNING MILL GRAB ON 12/01/95
79722	BC-206 SPINNING MILL GRAB ON 12/01/95
79723	BC-207 WEAVING GRAB ON 12/01/95

PARAMETER	RESULT		
TOTAL METALS	79721	79722	79723
LEAD, mg/kg	3,800	2,900	96

NOTE: LEAD RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 3

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 12/01/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

ANALYSES CHRONOLOGY

SAMPLE#	PARAMETER	DATE/TIME ANALYZED	METHOD#	ANALYST
79717	LEAD	12/05 @ 08:39	6010	FERGUSON
79718	LEAD	12/05 @ 08:39	6010	FERGUSON
79719	LEAD	12/05 @ 08:39	6010	FERGUSON
79720	LEAD	12/05 @ 08:39	6010	FERGUSON
79721	LEAD	12/05 @ 08:39	6010	FERGUSON
79722	LEAD	12/05 @ 08:39	6010	FERGUSON
79723	LEAD	12/05 @ 08:39	6010	FERGUSON

REPORTED BY: _____
SAM W. AVERY, LABORATORY MANAGER

CC: GENE McCALL (LWTM)

CHAIN OF CUSTODY RECORD

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING • TESTING

P.O. No.: _____
Branch: SPTBG
Department: 1264

S&ME Job No.: 1264-95-506
Project Name: GIBBS/REEVES
Samplers: (signature) Scott Williams

Station No.	Date	Time	Comp.	Grab		Number of Containers		Pb					REMARKS
													Bessemer City
BC 201	12/1/95			✓	PAINT - OFFICE AREA, MEN'S RR	1		✓					79717
BC 202	↓			✓	PAINT - PICKER ROOM	1		✓					79718
BC-203				✓	PAINT - WINDING, CANTEEN	1		✓					79719
BC-204				✓	PAINT - SPINNING MILL	1		✓					79720
BC-205				✓	PAINT - SPINNING MILL	1		✓					79721
BC-206				✓	PAINT - SPINNING MILL	1		✓					79722
BC-207				✓	PAINT - WEAVING	1		✓					79723

Relinquished by: (signature)	Date:	Time:	Received by: (signature)	Relinquished by: (signature)	Date:	Time:	Received by: (signature)
Scott Williams	12/1/95	1635	Dottie Teague				
Relinquished by: (signature)	Date:	Time:	Received by: (signature)	Relinquished by: (signature)	Date:	Time:	Received by: (signature)
Relinquished by: (signature)	Date:	Time:	Received by: (Signature)	Remarks			

This document was prepared pursuant to a specific agreement to address the unique

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ENGINEERS, INC.
P.O. Box 5655, Greenville, SC 29606
Phone (803) 232-1556 • FAX (803) 233-9058

J. L. Rogers, P.E.
F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

December 6, 1995

Project : S & ME
Job # : 1264-95-506
Method # : 8270

QUALITY CONTROL DATA QUALIFIER

The following samples were found to contain Bis(2-Ethylhexyl)Phthalate (BEHP), a common laboratory extraction contaminant. BEHP was also detected in the associated method blank (95-11-30-31) at 570 μg/kg. Results in this range should be considered suspect.

Sample#	Sample Identification	Bis(2-Ethylhexyl)Phthalate, μg/kg
79561	W-13	440
79565	BC1-5'	370
79568	BC3-10'	800
79571	BC-15	600
79572	BC-16	570
79573	BC-17	380

EPA recognizes that Bis(2-Ethylhexyl)Phthalate is a common laboratory extraction contaminant and recommends that extraction blanks should not exceed five times the detection limit. The blank level of 570 μg/kg falls within these guidelines.

J.L. ROGERS AND CALLCOTT ENGINEERS, INC.

Sam W. Avery
Laboratory Director

SWA/scp

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Laboratory Director

December 6, 1995

Project : S & ME
Job # : 1264-95-506
Method # : 8270

QUALITY CONTROL DATA QUALIFIER

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EPA recognizes that Bis(2-Ethylhexyl)Phthalate is a common laboratory extraction contaminant and recommends that extraction blanks should not exceed five times the detection limit. The blank level of 570 μg/kg falls within these guidelines.

J.L. ROGERS AND CALLCOTT ENGINEERS, INC.

Sam W. Avery
Laboratory Director

SWA/scp

TABLE 2
SUMMARY OF LABORATORY SAMPLES
PHASE II ENVIRONMENTAL SURVEY
OSAGE PLANT
BESSEMER CITY, NORTH CAROLINA
S&ME PROJECT NO. 1264-95-506

SAMPLE ID	AREA OF CONCERN	PARAMETRIC COVERAGE
BC1-5'	UST Area	8260/8270/TPH
BC1~~A~~B-5'	UST Area	8260/8270/TPH
BC2-5'	UST Area	8260/8270/TPH
BC3-5'	UST Area	8260/8270/TPH
BC4-5'	UST Area	8260/8270/TPH
BC5-10'	UST Area	8260/8270/TPH
BC7-3'	Drum Storage	8260/8270/Metals
BC8-3'	Drum Storage	8260/8270/Metals
BC9-3'	Paint Room	8260/8270/Metals
BC10-10'	Coal Storage	8260/8270/Metals
BC11-7.5'	Coal Storage	8260/8270/Metals
BC12-2.5'	Coal Storage	8260/8270/Metals
BC12-7.5'	Coal Storage	8260/8270/Metals
BC13-12'	Wastewater - South	8260/8270/Metals
BC14-10'	Wastewater - South	8260/8270/Metals
BC15	Wastewater - South	8260/8270/Metals
BC16	Wastewater - North	8260/8270/Metals
BC17	Wastewater - North	8260/8270/Metals
BC18	Wastewater - North	8260/8270/Metals
BC19	Background	Metals
BC20	Background	Metals
BC21	Background	Metals

NOTES
(1) 8260 = Volatile Organic Compounds
(2) 8270 = Semi-volatile Organic Compounds
(3) TPH = Total Petroleum Hydrocarbons
(4) Metals = Inductively Coupled Argon Plasma (ICP) and Mercury

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F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

CLIENT: S & ME
ATTENTION: MIKE MARCUS
155 TRADD STREET
SPARTANBURG, SC 29301

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79565	BC1-5' SOIL ON 11/29/95 AT 13:30

PARAMETER	RESULT
TOTAL SOLIDS (AT TIME OF ANALYSES), %	76
TOTAL PETROLEUM HYDROCARBONS (DIESEL RANGE), mg/kg	1,300*

CHROMATOGRAM OF SAMPLE WAS NOT AN EXACT MATCH TO CHROMATOGRAM OF #2 DIESEL FUEL STANDARD USED TO CALCULATE RESULT.

NOTE: TPH (DIESEL RANGE) RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 2

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79565	BC1-5' SOIL ON 11/29/95 AT 13:30

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg	
BENZENE	<100
BROMOBENZENE	<100
BROMOCHLOROMETHANE	<100
BROMODICHLOROMETHANE	<100
BROMOFORM	<100
BROMOMETHANE	<100
n-BUTYLBENZENE	140
sec-BUTYLBENZENE	<100
tert-BUTYLBENZENE	<100
CARBON TETRACHLORIDE	<100
CHLOROBENZENE	<100
CHLOROETHANE	<100
CHLOROFORM	<100
CHLOROMETHANE	<100
2-CHLOROTOLUENE	<100
4-CHLOROTOLUENE	<100
DIBROMOCHLOROMETHANE	<100
1,2-DIBROMO-3-CHLOROPROPANE	<100
1,2-DIBROMOETHANE	<100
DIBROMOMETHANE	<100
1,2-DICHLOROBENZENE	<100
1,3-DICHLOROBENZENE	<100
1,4-DICHLOROBENZENE	<100
DICHLORODIFLUOROMETHANE	<100
1,1-DICHLOROETHANE	<100
1,2-DICHLOROETHANE	<100
1,1-DICHLOROETHENE	<100
cis-1,2-DICHLOROETHENE	160

NOTE: VOLATILE ORGANICS RESULTS ARE SUBJECT TO MATRIX INTERFERENCE

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 3

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

..C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79565	BC1-5' SOIL ON 11/29/95 AT 13:30

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg (CONTINUED)	
trans-1,2-DICHLOROETHENE	<100
1,2-DICHLOROPROPANE	<100
1,3-DICHLOROPROPANE	<100
2,2-DICHLOROPROPANE	<100
1,1-DICHLOROPROPENE	<100
ETHYLBENZENE	<100
HEXACHLOROBUTADIENE	<100
ISOPROPYLBENZENE	<100
p-ISOPROPYLTOLUENE	<100
METHYLENE CHLORIDE	<100
NAPHTHALENE	500*
n-PROPYLBENZENE	<100
STYRENE	<100
1,1,1,2-TETRACHLOROETHANE	<100
1,1,2,2-TETRACHLOROETHANE	<100
TETRACHLOROETHENE	<100
TOLUENE	<100
1,2,3-TRICHLOROBENZENE	<100
1,2,4-TRICHLOROBENZENE	<100
1,1,1-TRICHLOROETHANE	<100
1,1,2-TRICHLOROETHANE	<100
TRICHLOROETHENE	<100
TRICHLOROFLUOROMETHANE	<100
1,2,3-TRICHLOROPROPANE	<100
1,2,4-TRIMETHYLBENZENE	<100
1,3,5-TRIMETHYLBENZENE	<100
VINYL CHLORIDE	<100
o-XYLENE	<100
m/p-XYLENE	<200

**ANALYZED BY METHOD 8270 DUE TO INTERFERENCES IN VOLATILE ORGANICS ANALYSIS*

NOTE: VOLATILE ORGANICS RESULTS ARE SUBJECT TO MATRIX INTERFERENCE

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 4

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79565	BC1-5' SOIL ON 11/29/95 AT 13:30

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg	
ACENAPHTHENE	660
ACENAPHTHYLENE	<340
ANILINE	<340
ANTHRACENE	490
BENZO(a)ANTHRACENE	<340
BENZO(b/k)FLUORANTHENE	<670
BENZO(g,h,i)PERYLENE	<340
BENZO(a)PYRENE	<340
BENZYL ALCOHOL	<340
BIS(2-CHLOROETHOXY)METHANE	<340
BIS(2-CHLOROETHYL)ETHER	<340
BIS(2-CHLOROISOPROPYL)ETHER	<340
BIS(2-ETHYLHEXYL)PHTHALATE	370
4-BROMOPHENYL PHENYL ETHER	<340
BUTYL BENZYL PHTHALATE	<340
4-CHLOROANILINE	<340
2-CHLORONAPHTHALENE	<340
4-CHLORO-3-METHYLPHENOL	<340
2-CHLOROPHENOL	<340
4-CHLOROPHENYL PHENYL ETHER	<340
CHRYSENE	510
DIBENZ(a,h)ANTHRACENE	<340
DIBENZOFURAN	<340
DI-n-BUTYLPHTHALATE	410
1,3-DICHLOROBENZENE	<340
1,4-DICHLOROBENZENE	<340
1,2-DICHLOROBENZENE	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE SUBJECT TO MATRIX INTERFERENCE

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 5

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79565	BC1-5' SOIL ON 11/29/95 AT 13:30

PARAMETER	RESULT
ACID/BASE NEUTRALS, µg/kg (CONTINUED)	
3,3'-DICHLOROBENZIDINE	<340
2,4-DICHLOROPHENOL	<340
DIETHYLPHTHALATE	<340
2,4-DIMETHYLPHENOL	<340
DIMETHYLPHTHALATE	<340
4,6-DINITRO-2-METHYLPHENOL	<340
2,4-DINITROPHENOL	<340
2,4-DINITROTOLUENE	<340
2,6-DINITROTOLUENE	<340
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	<340
DI-n-OCTYLPHTHALATE	<340
FLUORANTHENE	920
FLUORENE	1,700
HEXACHLOROBENZENE	<340
HEXACHLOROCYCLOPENTADIENE	<340
HEXACHLOROETHANE	<340
INDENO(1,2,3-cd)PYRENE	<340
ISOPHORONE	<340
2-METHYLNAPHTHALENE	1,500
2-METHYLPHENOL	<340
4-METHYLPHENOL	<340
2-NITROANILINE	<340
3-NITROANILINE	<340
4-NITROANILINE	<340
NITROBENZENE	<340
2-NITROPHENOL	<340
4-NITROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE SUBJECT TO MATRIX INTERFERENCE

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 6

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79565	BC1-5' SOIL ON 11/29/95 AT 13:30

PARAMETER	RESULT
ACID/BASE NEUTRALS, µg/kg (CONTINUED)	
N-NITROSODIMETHYLAMINE	<340
N-NITROSODIPHENYLAMINE	<340
N-NITROSODIPROPYLAMINE	<340
PENTACHLOROPHENOL	<340
PHENANTHRENE	6,600
PHENOL	<340
PYRENE	910
PYRIDINE	<340
2,4,5-TRICHLOROPHENOL	<340
2,4,6-TRICHLOROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE SUBJECT TO MATRIX INTERFERENCE

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 7

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79565	BC1-5' SOIL ON 11/29/95 AT 13:30

QUALITY CONTROL SUMMARY

SURROGATE	% RECOVERY
TPH (DIESEL RANGE)	
ORTHOTERPHENYL	DILUTED OUT
VOLATILE ORGANICS	
1,2-DICHLOROETHANE-D4	114
TOLUENE-D8	102
4-BROMOFLUOROBENZENE	95
ACID/BASE NEUTRALS	
NITROBENZENE-D5	37
2-FLUOROBIPHENYL	49
TERPHENYL-D14	54
2-FLUOROPHENOL	49
PHENOL-D5	54
2,4,6-TRIBROMOPHENOL	74

NOTE: SURROGATE RECOVERIES ARE WITHIN CONTROL LIMITS UNLESS NOTED WITH AN ASTERISK.

CONTINUED ON PAGE 8

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79565	BC1-5' SOIL ON 11/29/95 AT 13:30

ANALYSES CHRONOLOGY

PARAMETER	DATE/TIME ANALYZED	DATE EXTRACTED	METHOD#	ANALYST
TPH (DIESEL)	12/05 @ 16:40	11/30	GC/FID	LEAVITT
VOLATILES	12/04 @ 00:50	-----	8260	GIBSON
ACID/BASE	12/05 @ 06:07	11/30	8270	FRAMPTON
AND	12/05 @ 16:16	"	"	LYNCH

REPORTED BY: Sam W. Avery
SAM W. AVERY, LABORATORY MANAGER

CC: GENE McCALL (LWTM)

ROGERS & CALLCOTT
ENGINEERS, INC.
P.O. Box 5655, Greenville, SC 29606
Phone (803) 232-1556 • FAX (803) 233-9058

J. L. Rogers, P.E.
F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

CLIENT: S & ME
ATTENTION: MIKE MARCUS
155 TRADD STREET
SPARTANBURG, SC 29301

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79566	BC1B-5' SOIL ON 11/29/95 AT 13:45

PARAMETER	RESULT
TOTAL SOLIDS (AT TIME OF ANALYSES), %	82
TOTAL PETROLEUM HYDROCARBONS (DIESEL RANGE), mg/kg	<4.0

NOTE: TPH (DIESEL RANGE) RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 2

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79566	BC1B-5' SOIL ON 11/29/95 AT 13:45

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg	
BENZENE	<10
BROMOBENZENE	<10
BROMOCHLOROMETHANE	<10
BROMODICHLOROMETHANE	<10
BROMOFORM	<10
BROMOMETHANE	<10
n-BUTYLBENZENE	<10
sec-BUTYLBENZENE	<10
tert-BUTYLBENZENE	<10
CARBON TETRACHLORIDE	<10
CHLOROBENZENE	<10
CHLOROETHANE	<10
CHLOROFORM	<10
CHLOROMETHANE	<10
2-CHLOROTOLUENE	<10
4-CHLOROTOLUENE	<10
DIBROMOCHLOROMETHANE	<10
1,2-DIBROMO-3-CHLOROPROPANE	<10
1,2-DIBROMOETHANE	<10
DIBROMOMETHANE	<10
1,2-DICHLOROBENZENE	<10
1,3-DICHLOROBENZENE	<10
1,4-DICHLOROBENZENE	<10
DICHLORODIFLUOROMETHANE	<10
1,1-DICHLOROETHANE	<10
1,2-DICHLOROETHANE	<10
1,1-DICHLOROETHENE	<10
cis-1,2-DICHLOROETHENE	<10

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 3

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79566	BC1B-5' SOIL ON 11/29/95 AT 13:45

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg (CONTINUED)	
trans-1,2-DICHLOROETHENE	<10
1,2-DICHLOROPROPANE	<10
1,3-DICHLOROPROPANE	<10
2,2-DICHLOROPROPANE	<10
1,1-DICHLOROPROPENE	<10
ETHYLBENZENE	<10
HEXACHLOROBUTADIENE	<10
,OPROPYLBENZENE	<10
p-ISOPROPYLTOLUENE	<10
METHYLENE CHLORIDE	<10
NAPHTHALENE	<10
n-PROPYLBENZENE	<10
STYRENE	<10
1,1,1,2-TETRACHLOROETHANE	<10
1,1,2,2-TETRACHLOROETHANE	<10
TETRACHLOROETHENE	<10
TOLUENE	<10
1,2,3-TRICHLOROBENZENE	<10
1,2,4-TRICHLOROBENZENE	<10
1,1,1-TRICHLOROETHANE	<10
1,1,2-TRICHLOROETHANE	<10
TRICHLOROETHENE	<10
TRICHLOROFLUOROMETHANE	<10
1,2,3-TRICHLOROPROPANE	<10
1,2,4-TRIMETHYLBENZENE	<10
1,3,5-TRIMETHYLBENZENE	<10
VINYL CHLORIDE	<10
o-XYLENE	<10
m/p-XYLENE	<20

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 4

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79566	BC1B-5' SOIL ON 11/29/95 AT 13:45

PARAMETER	RESULT
ACID/BASE NEUTRALS, µg/kg	
ACENAPHTHENE	<340
ACENAPHTHYLENE	<340
ANILINE	<340
ANTHRACENE	<340
BENZO(a)ANTHRACENE	<340
BENZO(b/k)FLUORANTHENE	<670
BENZO(g,h,i)PERYLENE	<340
BENZO(a)PYRENE	<340
BENZYL ALCOHOL	<340
BIS(2-CHLOROETHOXY)METHANE	<340
BIS(2-CHLOROETHYL)ETHER	<340
BIS(2-CHLOROISOPROPYL)ETHER	<340
BIS(2-ETHYLHEXYL)PHTHALATE	<340
4-BROMOPHENYL PHENYL ETHER	<340
BUTYL BENZYL PHTHALATE	<340
4-CHLOROANILINE	<340
2-CHLORONAPHTHALENE	<340
4-CHLORO-3-METHYLPHENOL	<340
2-CHLOROPHENOL	<340
4-CHLOROPHENYL PHENYL ETHER	<340
CHRYSENE	<340
DIBENZ(a,h)ANTHRACENE	<340
DIBENZOFURAN	<340
DI-n-BUTYLPHTHALATE	<340
1,3-DICHLOROBENZENE	<340
1,4-DICHLOROBENZENE	<340
1,2-DICHLOROBENZENE	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 5

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79566	BC1B-5' SOIL ON 11/29/95 AT 13:45

PARAMETER	RESULT
ACID/BASE NEUTRALS, µg/kg (CONTINUED)	
3,3'-DICHLOROBENZIDINE	<340
2,4-DICHLOROPHENOL	<340
DIETHYLPHTHALATE	<340
2,4-DIMETHYLPHENOL	<340
DIMETHYLPHTHALATE	<340
4,6-DINITRO-2-METHYLPHENOL	<340
2,4-DINITROPHENOL	<340
2,4-DINITROTOLUENE	<340
2,6-DINITROTOLUENE	<340
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	<340
DI-n-OCTYLPHTHALATE	<340
FLUORANTHENE	<340
FLUORENE	<340
HEXACHLOROBENZENE	<340
HEXACHLOROCYCLOPENTADIENE	<340
HEXACHLOROETHANE	<340
INDENO(1,2,3-cd)PYRENE	<340
ISOPHORONE	<340
2-METHYLNAPHTHALENE	<340
2-METHYLPHENOL	<340
4-METHYLPHENOL	<340
2-NITROANILINE	<340
3-NITROANILINE	<340
4-NITROANILINE	<340
NITROBENZENE	<340
2-NITROPHENOL	<340
4-NITROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

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CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79566	BC1B-5' SOIL ON 11/29/95 AT 13:45

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg (CONTINUED)	
N-NITROSODIMETHYLAMINE	<340
N-NITROSODIPHENYLAMINE	<340
N-NITROSODIPROPYLAMINE	<340
PENTACHLOROPHENOL	<340
PHENANTHRENE	<340
PHENOL	<340
PYRENE	<340
PYRIDINE	<340
2,4,5-TRICHLOROPHENOL	<340
2,4,6-TRICHLOROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 7

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79566	BC1B-5' SOIL ON 11/29/95 AT 13:45

QUALITY CONTROL SUMMARY

SURROGATE	% RECOVERY
TPH (DIESEL RANGE)	
ORTHOTERPHENYL	84
VOLATILE ORGANICS	
1,2-DICHLOROETHANE-D4	107
TOLUENE-D8	102
4-BROMOFLUOROBENZENE	93
ACID/BASE NEUTRALS	
NITROBENZENE-D5	55
2-FLUOROBIPHENYL	52
TERPHENYL-D14	61
2-FLUOROPHENOL	57
PHENOL-D5	51
2,4,6-TRIBROMOPHENOL	47

NOTE: SURROGATE RECOVERIES ARE WITHIN CONTROL LIMITS UNLESS NOTED WITH AN ASTERISK.

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CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79566	BC1B-5' SOIL ON 11/29/95 AT 13:45

ANALYSES CHRONOLOGY

PARAMETER	DATE/TIME ANALYZED	DATE EXTRACTED	METHOD#	ANALYST
TPH (DIESEL)	12/05 @ 10:23	11/30	GC/FID	LEAVITT
VOLATILES	12/01 @ 20:24	-----	8260	GIBSON
ACID/BASE	12/04 @ 18:49	12/04	8270	LYNCH

REPORTED BY: _____
SAM W. AVERY, LABORATORY MANAGER

CC: GENE McCALL (LWTM)

ROGERS & CALLCOTT
ENGINEERS, INC.
P.O. Box 5655, Greenville, SC 29606
Phone (803) 232-1556 • FAX (803) 233-9058

J. L. Rogers, P.E.
F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

CLIENT: S & ME
ATTENTION: MIKE MARCUS
155 TRADD STREET
SPARTANBURG, SC 29301

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79567	BC2-5' SOIL ON 11/29/95 AT 15:15

PARAMETER	RESULT
TOTAL SOLIDS (AT TIME OF ANALYSES), %	78
TOTAL PETROLEUM HYDROCARBONS (DIESEL RANGE), mg/kg	41*

CHROMATOGRAM OF SAMPLE WAS NOT AN EXACT MATCH TO CHROMATOGRAM OF #2 DIESEL FUEL STANDARD USED TO CALCULATE RESULT.

NOTE: TPH (DIESEL RANGE) RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 2

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79567	BC2-5' SOIL ON 11/29/95 AT 15:15

PARAMETER	RESULT
VOLATILE ORGANICS, µg/kg	
BENZENE	<10
BROMOBENZENE	<10
BROMOCHLOROMETHANE	<10
BROMODICHLOROMETHANE	<10
BROMOFORM	<10
BROMOMETHANE	<10
-BUTYLBENZENE	<10
sec-BUTYLBENZENE	<10
tert-BUTYLBENZENE	<10
CARBON TETRACHLORIDE	<10
CHLOROBENZENE	<10
CHLOROETHANE	<10
CHLOROFORM	<10
CHLOROMETHANE	<10
2-CHLOROTOLUENE	<10
4-CHLOROTOLUENE	<10
DIBROMOCHLOROMETHANE	<10
1,2-DIBROMO-3-CHLOROPROPANE	<10
1,2-DIBROMOETHANE	<10
DIBROMOMETHANE	<10
1,2-DICHLOROBENZENE	<10
1,3-DICHLOROBENZENE	<10
1,4-DICHLOROBENZENE	<10
DICHLORODIFLUOROMETHANE	<10
1,1-DICHLOROETHANE	<10
1,2-DICHLOROETHANE	<10
1,1-DICHLOROETHENE	<10
cis-1,2-DICHLOROETHENE	<10

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 3

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79567	BC2-5' SOIL ON 11/29/95 AT 15:15

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg (CONTINUED)	
trans-1,2-DICHLOROETHENE	<10
1,2-DICHLOROPROPANE	<10
1,3-DICHLOROPROPANE	<10
2,2-DICHLOROPROPANE	<10
1,1-DICHLOROPROPENE	<10
ETHYLBENZENE	<10
HEXACHLOROBUTADIENE	<10
ISOPROPYLBENZENE	<10
p-ISOPROPYLTOLUENE	11
METHYLENE CHLORIDE	<10
NAPHTHALENE	170
n-PROPYLBENZENE	<10
STYRENE	<10
1,1,1,2-TETRACHLOROETHANE	<10
1,1,2,2-TETRACHLOROETHANE	<10
TETRACHLOROETHENE	<10
TOLUENE	<10
1,2,3-TRICHLOROBENZENE	<10
1,2,4-TRICHLOROBENZENE	<10
1,1,1-TRICHLOROETHANE	<10
1,1,2-TRICHLOROETHANE	<10
TRICHLOROETHENE	<10
TRICHLOROFLUOROMETHANE	<10
1,2,3-TRICHLOROPROPANE	<10
1,2,4-TRIMETHYLBENZENE	47
1,3,5-TRIMETHYLBENZENE	27
VINYL CHLORIDE	<10
o-XYLENE	<10
m/p-XYLENE	<20

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 4

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79567	BC2-5' SOIL ON 11/29/95 AT 15:15

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg	
ACENAPHTHENE	<340
ACENAPHTHYLENE	<340
ANILINE	<340
ANTHRACENE	<340
BENZO(a)ANTHRACENE	780
BENZO(b/k)FLUORANTHENE	1,500
BENZO(g,h,i)PERYLENE	610
BENZO(a)PYRENE	1,000
BENZYL ALCOHOL	<340
BIS(2-CHLOROETHOXY)METHANE	<340
BIS(2-CHLOROETHYL)ETHER	<340
BIS(2-CHLOROISOPROPYL)ETHER	<340
BIS(2-ETHYLHEXYL)PHTHALATE	<340
4-BROMOPHENYL PHENYL ETHER	<340
BUTYL BENZYL PHTHALATE	<340
4-CHLOROANILINE	<340
2-CHLORONAPHTHALENE	<340
4-CHLORO-3-METHYLPHENOL	<340
2-CHLOROPHENOL	<340
4-CHLOROPHENYL PHENYL ETHER	<340
CHRYSENE	920
DIBENZ(a,h)ANTHRACENE	<340
DIBENZOFURAN	<340
DI-n-BUTYLPHTHALATE	<340
1,3-DICHLOROBENZENE	<340
1,4-DICHLOROBENZENE	<340
1,2-DICHLOROBENZENE	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 5

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79567	BC2-5' SOIL ON 11/29/95 AT 15:15

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg (CONTINUED)	
3,3'-DICHLOROBENZIDINE	<340
2,4-DICHLOROPHENOL	<340
DIETHYLPHTHALATE	<340
2,4-DIMETHYLPHENOL	<340
DIMETHYLPHTHALATE	<340
4,6-DINITRO-2-METHYLPHENOL	<340
4-DINITROPHENOL	<340
2,4-DINITROTOLUENE	<340
2,6-DINITROTOLUENE	<340
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	<340
DI-n-OCTYLPHTHALATE	<340
FLUORANTHENE	2,500
FLUORENE	450
HEXACHLOROBENZENE	<340
HEXACHLOROCYCLOPENTADIENE	<340
HEXACHLOROETHANE	<340
INDENO(1,2,3-cd)PYRENE	640
ISOPHORONE	<340
2-METHYLNAPHTHALENE	<340
2-METHYLPHENOL	<340
4-METHYLPHENOL	<340
2-NITROANILINE	<340
3-NITROANILINE	<340
4-NITROANILINE	<340
NITROBENZENE	<340
2-NITROPHENOL	<340
4-NITROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 6

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79567	BC2-5' SOIL ON 11/29/95 AT 15:15

PARAMETER	RESULT
ACID/BASE NEUTRALS, µg/kg (CONTINUED)	
N-NITROSODIMETHYLAMINE	<340
N-NITROSODIPHENYLAMINE	<340
N-NITROSODIPROPYLAMINE	<340
PENTACHLOROPHENOL	<340
PHENANTHRENE	2,000
PHENOL	<340
PYRENE	1,600
PYRIDINE	<340
2,4,5-TRICHLOROPHENOL	<340
2,4,6-TRICHLOROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 7

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79567	BC2-5' SOIL ON 11/29/95 AT 15:15

QUALITY CONTROL SUMMARY

SURROGATE	% RECOVERY
TPH (DIESEL RANGE)	
ORTHOTERPHENYL	97
VOLATILE ORGANICS	
1,2-DICHLOROETHANE-D4	101
TOLUENE-D8	106
4-BROMOFLUOROBENZENE	95
ACID/BASE NEUTRALS	
NITROBENZENE-D5	58
2-FLUOROBIPHENYL	55
TERPHENYL-D14	64
2-FLUOROPHENOL	59
PHENOL-D5	53
2,4,6-TRIBROMOPHENOL	77

NOTE: SURROGATE RECOVERIES ARE WITHIN CONTROL LIMITS UNLESS NOTED WITH AN ASTERISK.

CONTINUED ON PAGE 8

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79567	BC2-5' SOIL ON 11/29/95 AT 15:15

ANALYSES CHRONOLOGY

PARAMETER	DATE/TIME ANALYZED	DATE EXTRACTED	METHOD#	ANALYST
TPH (DIESEL)	12/05 @ 15:06	11/30	GC/FID	LEAVITT
VOLATILES	12/01 @ 21:07	-----	8260	GIBSON
ACID/BASE	12/05 @ 05:17	11/30	8270	FRAMPTON

REPORTED BY: Sam W. Avery
SAM W. AVERY, LABORATORY MANAGER

CC: GENE McCALL (LWTM)

ROGERS & CALLCOTT
ENGINEERS, INC.
P.O. Box 5655, Greenville, SC 29606
Phone (803) 232-1556 • FAX (803) 233-9058

J. L. Rogers, P.E.
F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

CLIENT: S & ME
ATTENTION: MIKE MARCUS
155 TRADD STREET
SPARTANBURG, SC 29301

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79568	BC3-10' SOIL ON 11/29/95 AT 16:05

PARAMETER	RESULT
TOTAL SOLIDS (AT TIME OF ANALYSES), %	82
TOTAL PETROLEUM HYDROCARBONS (DIESEL RANGE), mg/kg	<4.0

NOTE: TPH (GASOLINE RANGE) RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 2

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79568	BC3-10' SOIL ON 11/29/95 AT 16:05

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg	
BENZENE	<10
BROMOBENZENE	<10
BROMOCHLOROMETHANE	<10
BROMODICHLOROMETHANE	<10
BROMOFORM	<10
BROMOMETHANE	<10
n-BUTYLBENZENE	<10
sec-BUTYLBENZENE	<10
tert-BUTYLBENZENE	<10
CARBON TETRACHLORIDE	<10
CHLOROBENZENE	<10
CHLOROETHANE	<10
CHLOROFORM	<10
CHLOROMETHANE	<10
2-CHLOROTOLUENE	<10
4-CHLOROTOLUENE	<10
DIBROMOCHLOROMETHANE	<10
1,2-DIBROMO-3-CHLOROPROPANE	<10
1,2-DIBROMOETHANE	<10
DIBROMOMETHANE	<10
1,2-DICHLOROBENZENE	<10
1,3-DICHLOROBENZENE	<10
1,4-DICHLOROBENZENE	<10
DICHLORODIFLUOROMETHANE	<10
1,1-DICHLOROETHANE	<10
1,2-DICHLOROETHANE	<10
1,1-DICHLOROETHENE	<10
cis-1,2-DICHLOROETHENE	<10

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 3

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79568	BC3-10' SOIL ON 11/29/95 AT 16:05

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg (CONTINUED)	
trans-1,2-DICHLOROETHENE	<10
1,2-DICHLOROPROPANE	<10
1,3-DICHLOROPROPANE	<10
2,2-DICHLOROPROPANE	<10
1,1-DICHLOROPROPENE	<10
ETHYLBENZENE	<10
HEXACHLOROBUTADIENE	<10
ISOPROPYLBENZENE	<10
p-ISOPROPYLTOLUENE	<10
METHYLENE CHLORIDE	<10
NAPHTHALENE	<10
n-PROPYLBENZENE	<10
STYRENE	<10
1,1,1,2-TETRACHLOROETHANE	<10
1,1,2,2-TETRACHLOROETHANE	<10
TETRACHLOROETHENE	<10
TOLUENE	<10
1,2,3-TRICHLOROBENZENE	<10
1,2,4-TRICHLOROBENZENE	<10
1,1,1-TRICHLOROETHANE	<10
1,1,2-TRICHLOROETHANE	<10
TRICHLOROETHENE	<10
TRICHLOROFLUOROMETHANE	<10
1,2,3-TRICHLOROPROPANE	<10
1,2,4-TRIMETHYLBENZENE	<10
1,3,5-TRIMETHYLBENZENE	<10
VINYL CHLORIDE	<10
o-XYLENE	<10
m/p-XYLENE	<20

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 4

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79568	BC3-10' SOIL ON 11/29/95 AT 16:05

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg	
ACENAPHTHENE	<340
ACENAPHTHYLENE	<340
ANILINE	<340
ANTHRACENE	<340
BENZO(a)ANTHRACENE	<340
BENZO(b/k)FLUORANTHENE	<670
BENZO(g,h,i)PERYLENE	<340
BENZO(a)PYRENE	<340
BENZYL ALCOHOL	<340
BIS(2-CHLOROETHOXY)METHANE	<340
BIS(2-CHLOROETHYL)ETHER	<340
BIS(2-CHLOROISOPROPYL)ETHER	<340
BIS(2-ETHYLHEXYL)PHTHALATE	800
4-BROMOPHENYL PHENYL ETHER	<340
BUTYL BENZYL PHTHALATE	<340
4-CHLOROANILINE	<340
2-CHLORONAPHTHALENE	<340
4-CHLORO-3-METHYLPHENOL	<340
2-CHLOROPHENOL	<340
4-CHLOROPHENYL PHENYL ETHER	<340
CHRYSENE	<340
DIBENZ(a,h)ANTHRACENE	<340
DIBENZOFURAN	<340
DI-n-BUTYLPHTHALATE	<340
1,3-DICHLOROBENZENE	<340
1,4-DICHLOROBENZENE	<340
1,2-DICHLOROBENZENE	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 5

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79568	BC3-10' SOIL ON 11/29/95 AT 16:05

PARAMETER	RESULT
ACID/BASE NEUTRALS, µg/kg (CONTINUED)	
3,3'-DICHLOROBENZIDINE	<340
2,4-DICHLOROPHENOL	<340
DIETHYLPHTHALATE	<340
2,4-DIMETHYLPHENOL	<340
DIMETHYLPHTHALATE	<340
4,6-DINITRO-2-METHYLPHENOL	<340
2,4-DINITROPHENOL	<340
2,4-DINITROTOLUENE	<340
2,6-DINITROTOLUENE	<340
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	<340
DI-n-OCTYLPHTHALATE	<340
FLUORANTHENE	<340
FLUORENE	<340
HEXACHLOROBENZENE	<340
HEXACHLOROCYCLOPENTADIENE	<340
HEXACHLOROETHANE	<340
INDENO(1,2,3-cd)PYRENE	<340
ISOPHORONE	<340
2-METHYLNAPHTHALENE	<340
2-METHYLPHENOL	<340
4-METHYLPHENOL	<340
2-NITROANILINE	<340
3-NITROANILINE	<340
4-NITROANILINE	<340
NITROBENZENE	<340
2-NITROPHENOL	<340
4-NITROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 6

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CLIENT: S & ME
ATTENTION: MIKE MARCUS
155 TRADD STREET
SPARTANBURG, SC 29301

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79569	BC4-5' SOIL ON 11/29/95 AT 16:30

PARAMETER	RESULT
TOTAL SOLIDS (AT TIME OF ANALYSES), %	78
TOTAL PETROLEUM HYDROCARBONS (DIESEL RANGE), mg/kg	<4.0

NOTE: TPH (DIESEL RANGE) RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 2

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79569	BC4-5' SOIL ON 11/29/95 AT 16:30

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg	
BENZENE	<10
BROMOBENZENE	<10
BROMOCHLOROMETHANE	<10
BROMODICHLOROMETHANE	<10
BROMOFORM	<10
BROMOMETHANE	<10
BUTYLBENZENE	<10
sec-BUTYLBENZENE	<10
tert-BUTYLBENZENE	<10
CARBON TETRACHLORIDE	<10
CHLOROBENZENE	<10
CHLOROETHANE	<10
CHLOROFORM	<10
CHLOROMETHANE	<10
2-CHLOROTOLUENE	<10
4-CHLOROTOLUENE	<10
DIBROMOCHLOROMETHANE	<10
1,2-DIBROMO-3-CHLOROPROPANE	<10
1,2-DIBROMOETHANE	<10
DIBROMOMETHANE	<10
1,2-DICHLOROBENZENE	<10
1,3-DICHLOROBENZENE	<10
1,4-DICHLOROBENZENE	<10
DICHLORODIFLUOROMETHANE	<10
1,1-DICHLOROETHANE	<10
1,2-DICHLOROETHANE	<10
1,1-DICHLOROETHENE	<10
cis-1,2-DICHLOROETHENE	<10

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 3

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79569	BC4-5' SOIL ON 11/29/95 AT 16:30

PARAMETER	RESULT
VOLATILE ORGANICS, μg/kg (CONTINUED)	
trans-1,2-DICHLOROETHENE	<10
1,2-DICHLOROPROPANE	<10
1,3-DICHLOROPROPANE	<10
2,2-DICHLOROPROPANE	<10
1,1-DICHLOROPROPENE	<10
ETHYLBENZENE	<10
HEXACHLOROBUTADIENE	<10
ISOPROPYLBENZENE	<10
p-ISOPROPYLTOLUENE	<10
METHYLENE CHLORIDE	<10
NAPHTHALENE	<10
n-PROPYLBENZENE	<10
STYRENE	<10
1,1,1,2-TETRACHLOROETHANE	<10
1,1,2,2-TETRACHLOROETHANE	<10
TETRACHLOROETHENE	<10
TOLUENE	<10
1,2,3-TRICHLOROBENZENE	<10
1,2,4-TRICHLOROBENZENE	<10
1,1,1-TRICHLOROETHANE	<10
1,1,2-TRICHLOROETHANE	<10
TRICHLOROETHENE	<10
TRICHLOROFLUOROMETHANE	<10
1,2,3-TRICHLOROPROPANE	<10
1,2,4-TRIMETHYLBENZENE	<10
1,3,5-TRIMETHYLBENZENE	<10
VINYL CHLORIDE	<10
o-XYLENE	<10
m/p-XYLENE	<20

NOTE: VOLATILE ORGANICS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 4

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79569	BC4-5' SOIL ON 11/29/95 AT 16:30

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg	
ACENAPHTHENE	<340
ACENAPHTHYLENE	<340
ANILINE	<340
ANTHRACENE	<340
BENZO(a)ANTHRACENE	<340
BENZO(b/k)FLUORANTHENE	<670
BENZO(g,h,i)PERYLENE	<340
BENZO(a)PYRENE	<340
BENZYL ALCOHOL	<340
BIS(2-CHLOROETHOXY)METHANE	<340
BIS(2-CHLOROETHYL)ETHER	<340
BIS(2-CHLOROISOPROPYL)ETHER	<340
BIS(2-ETHYLHEXYL)PHTHALATE	<340
4-BROMOPHENYL PHENYL ETHER	<340
BUTYL BENZYL PHTHALATE	<340
4-CHLOROANILINE	<340
2-CHLORONAPHTHALENE	<340
4-CHLORO-3-METHYLPHENOL	<340
2-CHLOROPHENOL	<340
4-CHLOROPHENYL PHENYL ETHER	<340
CHRYSENE	<340
DIBENZ(a,h)ANTHRACENE	<340
DIBENZOFURAN	<340
DI-n-BUTYLPHTHALATE	<340
1,3-DICHLOROBENZENE	<340
1,4-DICHLOROBENZENE	<340
1,2-DICHLOROBENZENE	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 5

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79569	BC4-5' SOIL ON 11/29/95 AT 16:30

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg (CONTINUED)	
3,3'-DICHLOROBENZIDINE	<340
2,4-DICHLOROPHENOL	<340
DIETHYLPHTHALATE	<340
2,4-DIMETHYLPHENOL	<340
DIMETHYLPHTHALATE	<340
4,6-DINITRO-2-METHYLPHENOL	<340
2,4-DINITROPHENOL	<340
2,4-DINITROTOLUENE	<340
2,6-DINITROTOLUENE	<340
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	<340
DI-n-OCTYLPHTHALATE	<340
FLUORANTHENE	<340
FLUORENE	<340
HEXACHLOROBENZENE	<340
HEXACHLOROCYCLOPENTADIENE	<340
HEXACHLOROETHANE	<340
INDENO(1,2,3-cd)PYRENE	<340
ISOPHORONE	<340
2-METHYLNAPHTHALENE	<340
2-METHYLPHENOL	<340
4-METHYLPHENOL	<340
2-NITROANILINE	<340
3-NITROANILINE	<340
4-NITROANILINE	<340
NITROBENZENE	<340
2-NITROPHENOL	<340
4-NITROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 6

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79569	BC4-5' SOIL ON 11/29/95 AT 16:30

PARAMETER	RESULT
ACID/BASE NEUTRALS, μg/kg (CONTINUED)	
N-NITROSODIMETHYLAMINE	<340
N-NITROSODIPHENYLAMINE	<340
N-NITROSODIPROPYLAMINE	<340
PENTACHLOROPHENOL	<340
PHENANTHRENE	<340
PHENOL	<340
YRENE	<340
PYRIDINE	<340
2,4,5-TRICHLOROPHENOL	<340
2,4,6-TRICHLOROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 7

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79569	BC4-5' SOIL ON 11/29/95 AT 16:30

QUALITY CONTROL SUMMARY

SURROGATE	% RECOVERY
TPH (DIESEL RANGE)	
ORTHOTERPHENYL	78
VOLATILE ORGANICS	
1,2-DICHLOROETHANE-D4	103
TOLUENE-D8	100
4-BROMOFLUOROBENZENE	102
ACID/BASE NEUTRALS	
NITROBENZENE-D5	47
2-FLUOROBIPHENYL	44
TERPHENYL-D14	52
2-FLUOROPHENOL	54
PHENOL-D5	52
2,4,6-TRIBROMOPHENOL	59

NOTE: SURROGATE RECOVERIES ARE WITHIN CONTROL LIMITS UNLESS NOTED WITH AN ASTERISK.

CONTINUED ON PAGE 8

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79568	BC3-10' SOIL ON 11/29/95 AT 16:05

PARAMETER	RESULT
ACID/BASE NEUTRALS, µg/kg (CONTINUED)	
N-NITROSODIMETHYLAMINE	<340
N-NITROSODIPHENYLAMINE	<340
N-NITROSODIPROPYLAMINE	<340
PENTACHLOROPHENOL	<340
PHENANTHRENE	<340
PHENOL	<340
PYRENE	<340
PYRIDINE	<340
2,4,5-TRICHLOROPHENOL	<340
2,4,6-TRICHLOROPHENOL	<340

NOTE: ACID/BASE NEUTRALS RESULTS ARE BASED ON WEIGHT OF SAMPLE AS RECEIVED

CONTINUED ON PAGE 7

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79568	BC3-10' SOIL ON 11/29/95 AT 16:05

QUALITY CONTROL SUMMARY

SURROGATE	% RECOVERY
TPH (DIESEL RANGE)	
ORTHOTERPHENYL	76
VOLATILE ORGANICS	
1,2-DICHLOROETHANE-D4	103
TOLUENE-D8	99
4-BROMOFLUOROBENZENE	104
ACID/BASE NEUTRALS	
NITROBENZENE-D5	74
2-FLUOROBIPHENYL	68
TERPHENYL-D14	78
2-FLUOROPHENOL	82
PHENOL-D5	79
2,4,6-TRIBROMOPHENOL	79

NOTE: SURROGATE RECOVERIES ARE WITHIN CONTROL LIMITS UNLESS NOTED WITH AN ASTERISK.

CONTINUED ON PAGE 8

CLIENT: S & ME
ATTENTION: MIKE MARCUS

DATE RECEIVED: 11/29/1995 DATE REPORTED: 12/06/1995

N.C. CERTIFICATE NUMBER - 27

SAMPLE NUMBER	SAMPLE DESCRIPTION
	JOB #1264-95-506 (GIBBS/REEVES) - N.C.
79568	BC3-10' SOIL ON 11/29/95 AT 16:05

ANALYSES CHRONOLOGY

PARAMETER	DATE/TIME ANALYZED	DATE EXTRACTED	METHOD#	ANALYST
TPH (DIESEL)	12/05 @ 11:09	11/30	GC/FID	LEAVITT
VOLATILES	12/04 @ 16:16	-----	8260	GIBSON
ACID/BASE	12/05 @ 11:11	11/30	8270	LYNCH

REPORTED BY: Sam W. Avery
SAM W. AVERY, LABORATORY MANAGER

CC: GENE McCALL (LWTM)

SOIL MATRIX SPIKE/MATRIX 'IKE DUPLICATE RECOVERY

DATE EXTRACTED: ___/___/___ ANALYST: _____

DATE ANALYZED: 12/04/95 ANALYST: CJ

FRACTION	COMPOUND	CONC. SPIKE ADDED (µg/kg)	SAMPLE RESULT	CONC. MS	% REC.	CONC. MSD	% REC.	RPD	QC LIMITS RPD	QC LIMITS RECOVERY
VOA METHOD# 5260 SAMPLE# R74568 SOIL	1,1-DICHLOROETHENE	25.0	0	25.0	100	24.7	98.8	1	22	59-172
	BENZENE			25.7	102.6	25.6	102.2	0	11	66-142
	TRICHLOROETHENE			25.3	101.2	25.4	101.6	0	24	62-137
	TOLUENE			24.4	97.6	25.0	100.0	2	21	59-139
	CHLOROBENZENE			27.2	108.8	27.4	109.6	1	21	60-133
B/N METHOD# SAMPLE#	1,4-DICHLOROBENZENE								27	28-104
	N-NITROSODI-N-PROPYLAMINE								38	41-126
	1,2,4-TRICHLOROBENZENE								23	38-107
	ACENAPHTHENE								19	31-137
	2,4-DINITROTOLUENE								47	28-89
	PYRENE								36	35-142
ACID METHOD# SAMPLE#	2-CHLOROPHENOL								50	25-102
	PHENOL								35	26-90
	4-CHLORO-3-METHYLPHENOL								33	26-103
	4-NITROPHENOL								50	11-114
	PENTACHLOROPHENOL								47	17-109
PEST METHOD# SAMPLE#	LINDANE								50	46-127
	HEPTACHLOR								31	35-130
	ALDRIN								43	34-132
	DIELDRIN								38	31-134
	ENDRIN								45	42-139
	4,4'-DDT								50	23-134

ADVISORY LIMITS:

RPD: VOAs 0 OUT OF 5 OUTSIDE QC LIMITS
B/N ____ OUT OF ____ OUTSIDE QC LIMITS
ACID ____ OUT OF ____ OUTSIDE QC LIMITS
PEST ____ OUT OF ____ OUTSIDE QC LIMITS

RECOVERY: VOAs 0 OUT OF 10 OUTSIDE QC LIMITS
B/N ____ OUT OF ____ OUTSIDE QC LIMITS
ACID ____ OUT OF ____ OUTSIDE QC LIMITS
PEST ____ OUT OF ____ OUTSIDE QC LIMITS

COMMENTS: _____

REVIEWED BY:

GC/GCMS LAB: INITIALS CJ DATE 12/5/95
EXTRACTION LAB: INITIALS ____ DATE ___/___/___
QUALITY CONTROL: INITIALS [illegible] DATE 12/15/95

CHAIN OF CUSTODY RECORD

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING • TESTING

P.O. No.: _____
Branch: _____
Department: _____

S&ME Job No.: 1264-95-50C
Project Name: Gibbs / Reeves NC
Samplers: (signature) John Whitehead, John Whitehead, Jeff Lindsey, Kimberly Gilreath, Kimberly Gilreath

Station No.	Date	Time	Comp.	Grab		Number of Containers		VOC	BNA	Metals	TPH Gas	TPH Diesel	REMARKS
79565	11-29-95	1330			BC1 - 5'	3		1	1	1*		1	*Cancel metals on 1st 6 six samples
79566	11-29-95	1345			BC1R - 5'	3		1	1	1		1	per John Whitehead 11/30/95 AN
79567	11-29-95	1515			BC2 - 5'	3		1	1	1		1	Report to
79568	11-29-95	1605			BC3 10'	3		1	1	1*		1	
79569	11-29-95	1630			BC4 5'	3		1	1	1*		1	John Whitehead
79570	11-29-95	1710			BC5 10'	3		1	1	1*	1		S&ME
79571	11-29-95	1615			BC15	2	a	1	1	1			155 Tradd St
79572	11-29-95	1500			BC16	2		1	1	1			Spartanburg SC
79573	11-29-95	1530			BC17	2		1	1	1			2930
79574	11-29-95	1550			BC18	2		* 1	1	1			
79575	11-29-95	1335			BC19	1				1			803 574-2360
79576	11-29-95	1400			BC20	1				1			803 576-8730
79577	11-29-95	1420			BC21	1				1			

Relinquished by: (signature)	Date:	Time:	Received by: (signature)	Relinquished by: (signature)	Date:	Time:	Received by: (signature)
John Whitehead	11-29-95	1907	Angela K Jones				
Relinquished by: (signature)	Date:	Time:	Received by: (signature)	Relinquished by: (signature)	Date:	Time:	Received by: (signature)
Relinquished by: (signature)	Date:	Time:	Received by: (Signature)	Remarks			
				* RECEIVED BROKEN, & PLACED IN PLASTIC BAG VOA sample taken out of ABN Bottle			

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